

# DFS TEST REPORT

**REPORT NO.:** RF120523E07A-1

**MODEL NO.:** WS-AP3705i

**FCC ID:** QXO-WSAP3705I

**RECEIVED:** May 23, 2012

**TESTED:** June 11 to 18, 2012

**ISSUED:** Sep. 20, 2012

**APPLICANT:** Enterasys Networks, Inc.

**ADDRESS:** 50 Minuterman Road Andover, MA 01810

**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.

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

**TEST LOCATION (2):** No. 49, Ln. 206, Wende Rd., Shangshan 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   |
|----------------|-------------------|---------------|
| RF120523E07A-1 | Original release  | Sep. 20, 2012 |



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## 1. CERTIFICATION

**PRODUCT:** Wireless Access Point  
**BRAND NAME:** Enterasys Networks  
**MODEL NO.:** WS-AP3705i  
**TEST SAMPLE:** MASS-PRODUCTION  
**APPLICANT:** Enterasys Networks, Inc.  
**TESTED:** June 11 to June 18, 2012  
**STANDARDS:** FCC Part 15, Subpart E (Section 15.407)  
FCC 06-96

The above equipment (Model: WS-AP3705i) 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** : Phoenix Huang, **DATE:** Sep. 20, 2012  
( Phoenix Huang, Specialist )

**APPROVED BY** : May Chen, **DATE:** Sep. 20, 2012  
( May Chen, Deputy Manager )

## 2. EUT INFORMATION

### 2.1 OPERATING FREQUENCY BANDS AND MODE OF EUT

**Table 1: Operating frequency bands and mode of EUT.**

| Operational Mode | Operating Frequency Range |              |
|------------------|---------------------------|--------------|
|                  | 5250~5350MHz              | 5470~5725MHz |
| Master           | ü                         | ü            |

**Note:** 5600MHz ~ 5650MHz will be disable.

### 2.2 EUT SOFTWARE AND FIRMWARE VERSION

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

| No. | Product               | Model No.  | Software/Firmware Version |
|-----|-----------------------|------------|---------------------------|
| 1   | Wireless Access Point | WS-AP3705i | 08.11.03.0012             |

## 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

**Table 3: Antenna list.**

| Ant. No. | Manufacture  | Model name                | Operation Frequency Range | Antenna Type | Max. Gain (dBi) |
|----------|--------------|---------------------------|---------------------------|--------------|-----------------|
| 1        | WHA YU GROUP | C037-511135-A (SSR-13314) | 5.25 – 5.35 GHz           | PIFA         | 3.92            |
|          |              |                           | 5.47 – 5.725 GHz          |              | 3.95            |
| 2        | WHA YU GROUP | C037-511135-A (SSR-13314) | 5.25 – 5.35 GHz           | PIFA         | 3.84            |
|          |              |                           | 5.47 – 5.725 GHz          |              | 3.72            |

**Note :**

1. The EUT incorporates a MIMO function.

| MODULATION MODE | Tx/Rx FUNCTION |
|-----------------|----------------|
| 802.11b         | 2Tx/2Rx        |
| 802.11g         | 2Tx/2Rx        |
| 802.11a         | 2Tx/2Rx        |
| 802.11n (20MHz) | 2Tx/2Rx        |
| 802.11n (40MHz) | 2Tx/2Rx        |

2. For 802.11a:

**Operated in 5250MHz ~ 5350MHz:**

Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$

Effective Legacy Gain (dBi) = 6.89

The effective legacy gain is 6.89dBi, therefore the limit needs to reduce.

**Operated in 5470MHz ~ 5725MHz:**

Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$

Effective Legacy Gain (dBi) = 6.85

The effective legacy gain is 6.85dBi, therefore the limit needs to reduce.

3. For 802.11n (20MHz) & 802.11n (40MHz) :

**Operated in 5250MHz ~ 5350MHz**

Net Gain (dBi)= 3.92

**Operated in 5470MHz ~ 5725MHz**

Net Gain (dBi)= 3.95

## 2.4 EUT MAXIMUM CONDUCTED POWER

Table 4: The measured conducted output power.

### 802.11a

| Ant Set | Frequency Band(MHz) | MAX. Power        |                  |
|---------|---------------------|-------------------|------------------|
|         |                     | Output Power(dBm) | Output Power(mW) |
| 2       | 5250~5350MHz        | 22.62             | 182.838          |
| 2       | 5470~5725MHz        | 22.51             | 178.439          |

### 802.11n HT20

| Ant Set | Frequency Band(MHz) | MAX. Power        |                  |
|---------|---------------------|-------------------|------------------|
|         |                     | Output Power(dBm) | Output Power(mW) |
| 2       | 5250~5350MHz        | 22.71             | 186.849          |
| 2       | 5470~5725MHz        | 22.36             | 172.301          |

### 802.11n HT40

| Ant Set | Frequency Band(MHz) | MAX. Power        |                  |
|---------|---------------------|-------------------|------------------|
|         |                     | Output Power(dBm) | Output Power(mW) |
| 2       | 5250~5350MHz        | 22.96             | 197.828          |
| 2       | 5470~5725MHz        | 22.35             | 171.855          |

## 2.5 EUT MAXIMUM EIRP POWER

Table 5: The EIRP output power list.

### 802.11a

| Ant Set | Frequency Band(MHz) | MAX. Power        |                  |
|---------|---------------------|-------------------|------------------|
|         |                     | Output Power(dBm) | Output Power(mW) |
| 2       | 5250~5350MHz        | 29.51             | 893.305          |
| 2       | 5470~5725MHz        | 29.36             | 862.979          |

### 802.11n HT20

| Ant Set | Frequency Band(MHz) | MAX. Power        |                  |
|---------|---------------------|-------------------|------------------|
|         |                     | Output Power(dBm) | Output Power(mW) |
| 2       | 5250~5350MHz        | 26.63             | 460.257          |
| 2       | 5470~5725MHz        | 26.31             | 427.563          |

### 802.11n HT40

| Ant Set | Frequency Band(MHz) | MAX. Power        |                  |
|---------|---------------------|-------------------|------------------|
|         |                     | Output Power(dBm) | Output Power(mW) |
| 2       | 5250~5350MHz        | 26.88             | 487.528          |
| 2       | 5470~5725MHz        | 26.3              | 426.58           |





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## **2.6 TRANSMIT POWER CONTROL (TPC)**

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

Maximum EIRP of this device is 893.305mW which more than 500mW, therefore it's require TPC function.

## **2.7 STATEMENT OF MAUNFACTURER**

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

### 3. U-NII DFS RULE REQUIREMENTS

#### 3.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 1 and 2 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            | ü                | ü                              | ü                           |
| DFS Detection Threshold         | ü                | Not required                   | ü                           |
| Channel Availability Check Time | ü                | Not required                   | Not required                |
| Uniform Spreading               | ü                | Not required                   | Not required                |
| U-NII Detection Bandwidth       | ü                | Not required                   | ü                           |

**Table 7: Applicability of DFS requirements during normal operation.**

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

## 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 and 2) |
|------------------------|------------------------------|
| $\geq 200$ milliwatt   | -64 dBm                      |
| $< 200$ milliwatt      | -62 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.

**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 80% of the UNII 99% transmission power bandwidth.<br>See Note 3.                                  |

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

- For the Short Pulse Radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

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

**Note 3:** During the U-NII Detection Bandwidth detection test, radar type 1 is used and 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 |
|-----------------------------|--------------------|------------|------------------|--------------------------------------------|--------------------------|
| 1                           | 1                  | 1428       | 18               | 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                      |

**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                       |

## 4. TEST & SUPPORT EQUIPMENT LIST

### 4.1 TEST INSTRUMENTS

Table 1: Test instruments list.

| DESCRIPTION & MANUFACTURER | MODEL NO. | BRAND     | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|-----------|-----------------|------------------|
| R&S Spectrum analyzer      | FSP40     | R&S       | May 09, 2012    | May 08, 2013     |
| Signal generator           | 8645A     | Agilent   | Sep. 02, 2011   | Sep. 01, 2012    |
| Oscilloscope               | TDS 5104  | Tektronix | Mar. 05, 2012   | Mar. 04, 2013    |

### 4.2 DESCRIPTION OF SUPPORT UNITS

Table 2: Support Unit information.

| No. | Product                | Brand  | Model No. | ID         | Spec. |
|-----|------------------------|--------|-----------|------------|-------|
| 1   | Wireless-N USB Adapter | D-Link | DWA-160   | KA2WA160B1 |       |

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

Table 3: Software/Firmware information.

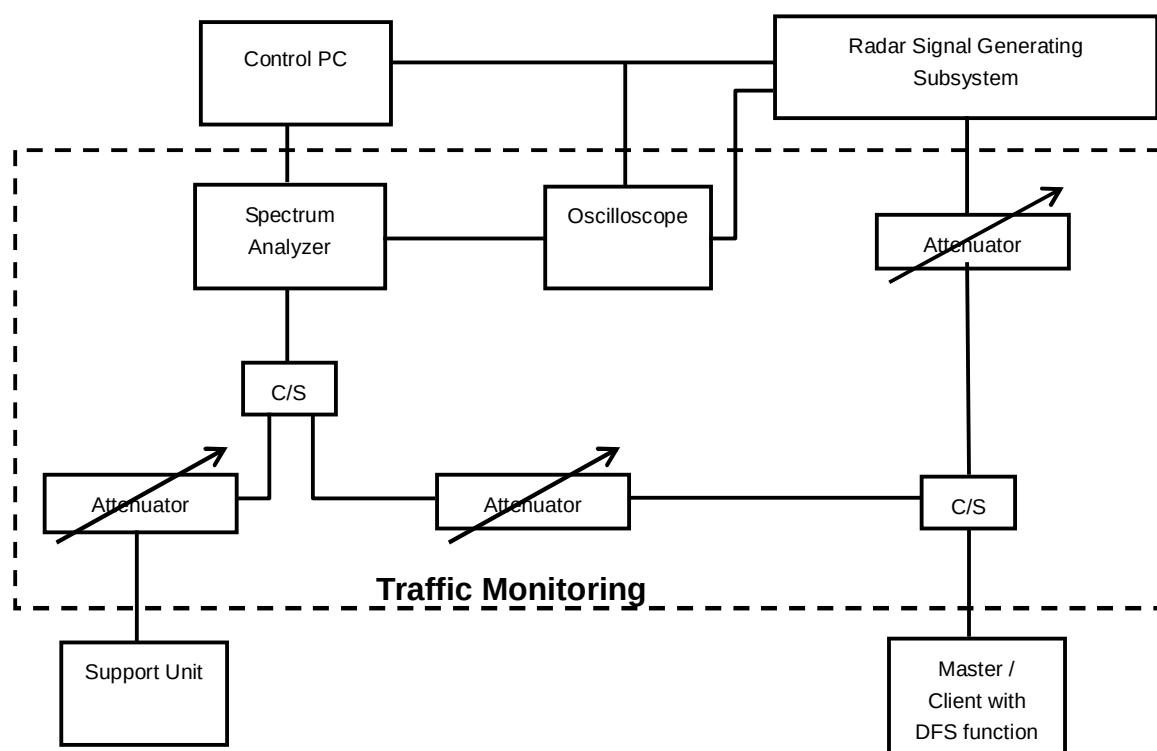
| No. | Product                | Model No. | Software/Firmware Version |
|-----|------------------------|-----------|---------------------------|
| 1   | Wireless-N USB Adapter | DWA-160   | Driver Version: 1.1.1.0   |

## 5. TEST PROCEDURE

### 5.1 BVADT DFS MEASUREMENT SYSTEM:

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

#### Conducted setup configuration of ADT DFS Measurement System



The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 y Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

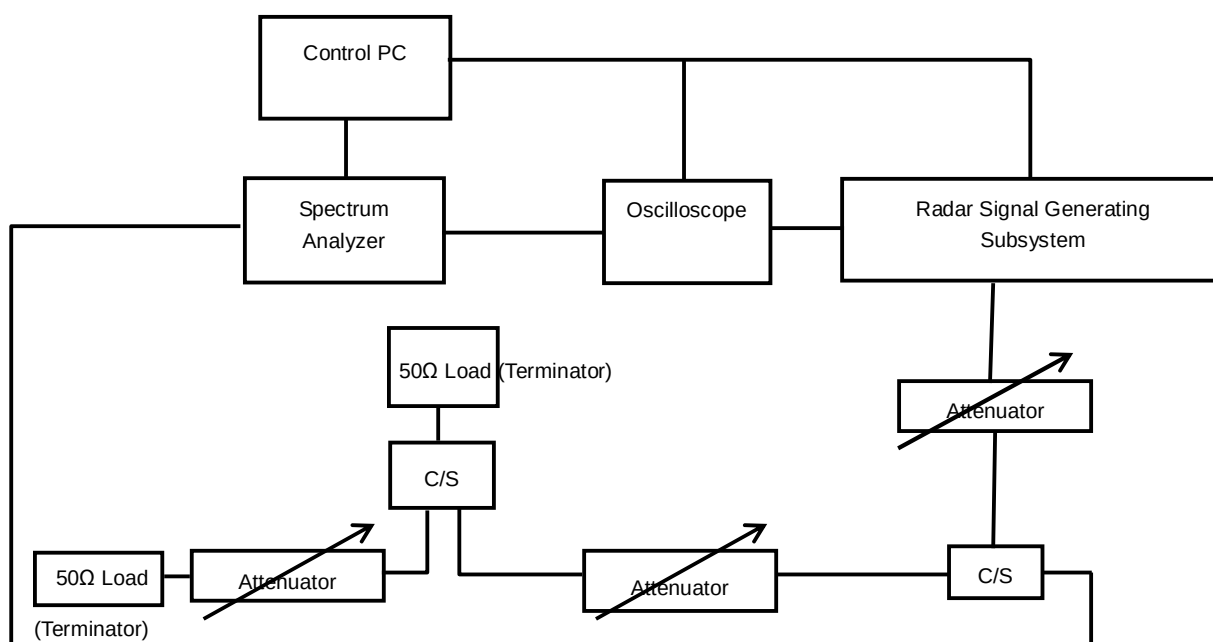
<http://ntiacsd.ntia.doc.gov/dfs/>.

## 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

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

The Master antenna net gain is 3.72dBi and required detection threshold is -59.28dBm ( $= -64 + 3.72 + 1$ )dBm. The calibrated conducted detection threshold level is set to -59.28 dBm.

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

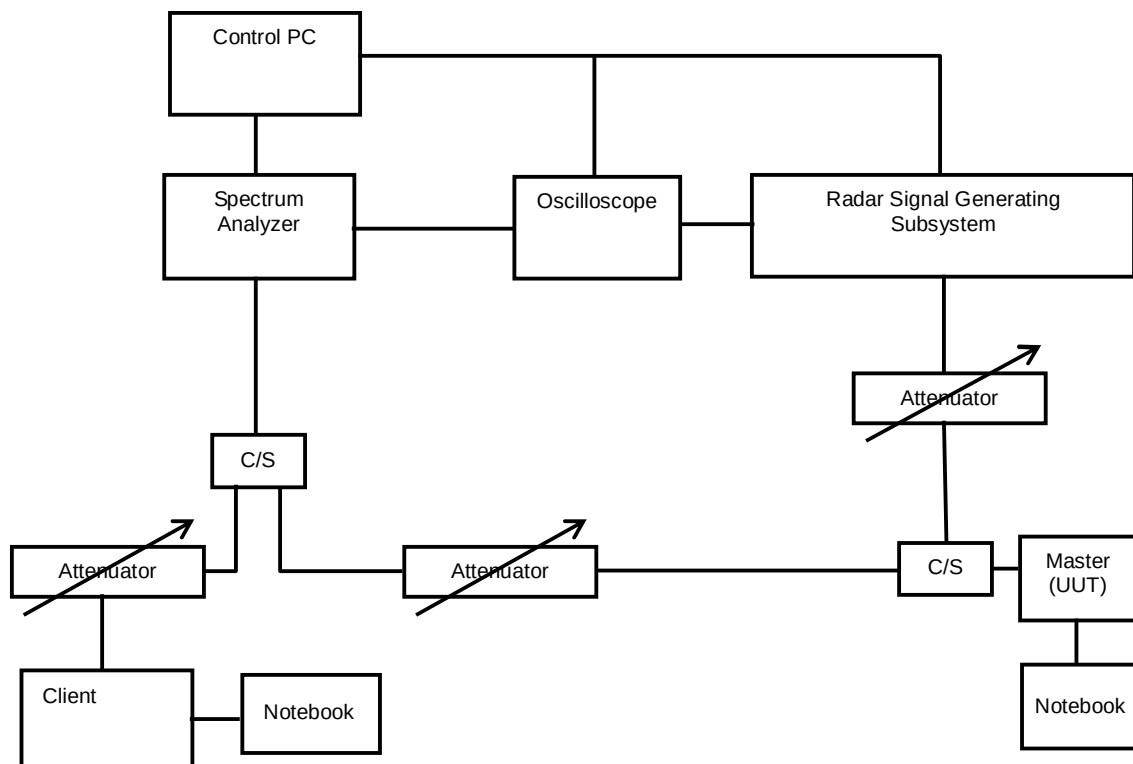


### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 CONDUCTED TEST SETUP CONFIGURATION

#### 5.4.1 MASTER MODE



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



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## 6. TEST RESULTS

### 6.1 SUMMARY OF TEST RESULT

#### 6.1.1 MASTER MODE

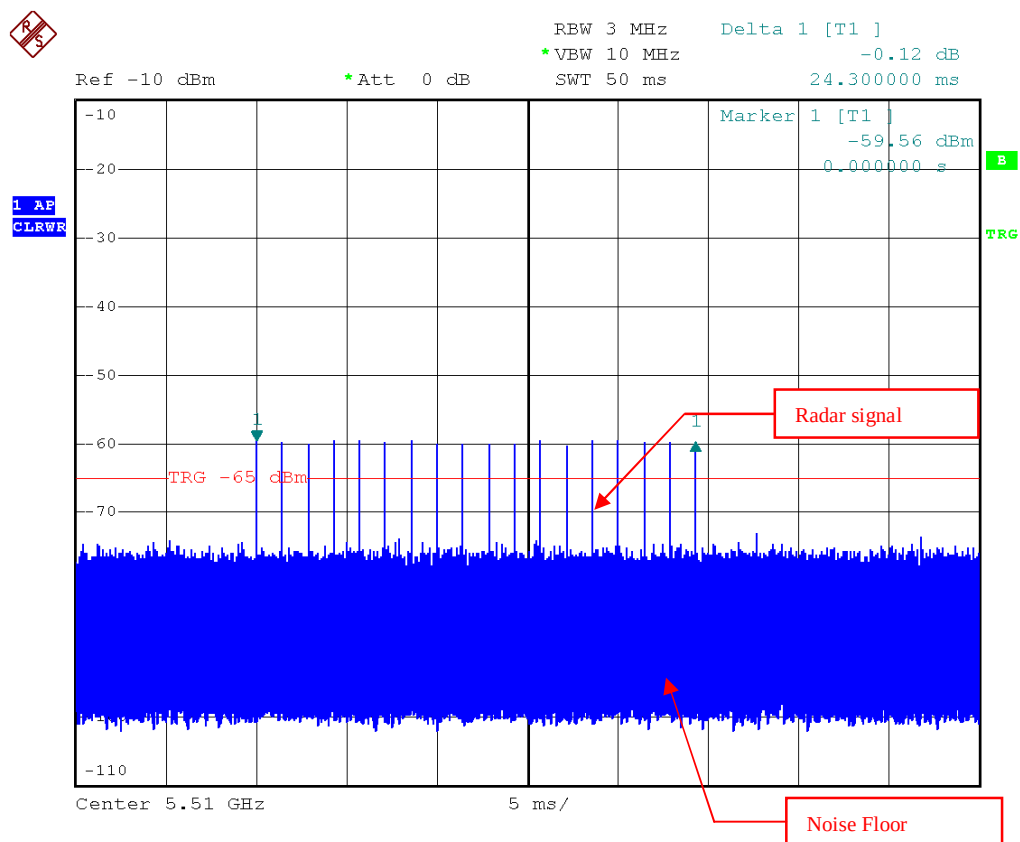
| Clause | Test Parameter                    | Remarks    | Pass/Fail |
|--------|-----------------------------------|------------|-----------|
| 15.407 | DFS Detection Threshold           | Applicable | Pass      |
| 15.407 | Channel Availability Check Time   | Applicable | Pass      |
| 15.407 | Channel Move Time                 | Applicable | Pass      |
| 15.407 | Channel Closing Transmission Time | Applicable | Pass      |
| 15.407 | Non- Occupancy Period             | Applicable | Pass      |
| 15.407 | Uniform Spreading                 | Applicable | Pass      |
| 15.407 | U-NII Detection Bandwidth         | Applicable | Pass      |
| 15.407 | Non-Co-Channel test               | Applicable | Pass      |

## 6.2 DETAIL TEST RESULTS

### 6.2.1. TEST MODE: DEVICE OPERATING IN MASTER MODE.

#### 6.2.1.1 DFS DETECTION THRESHOLD

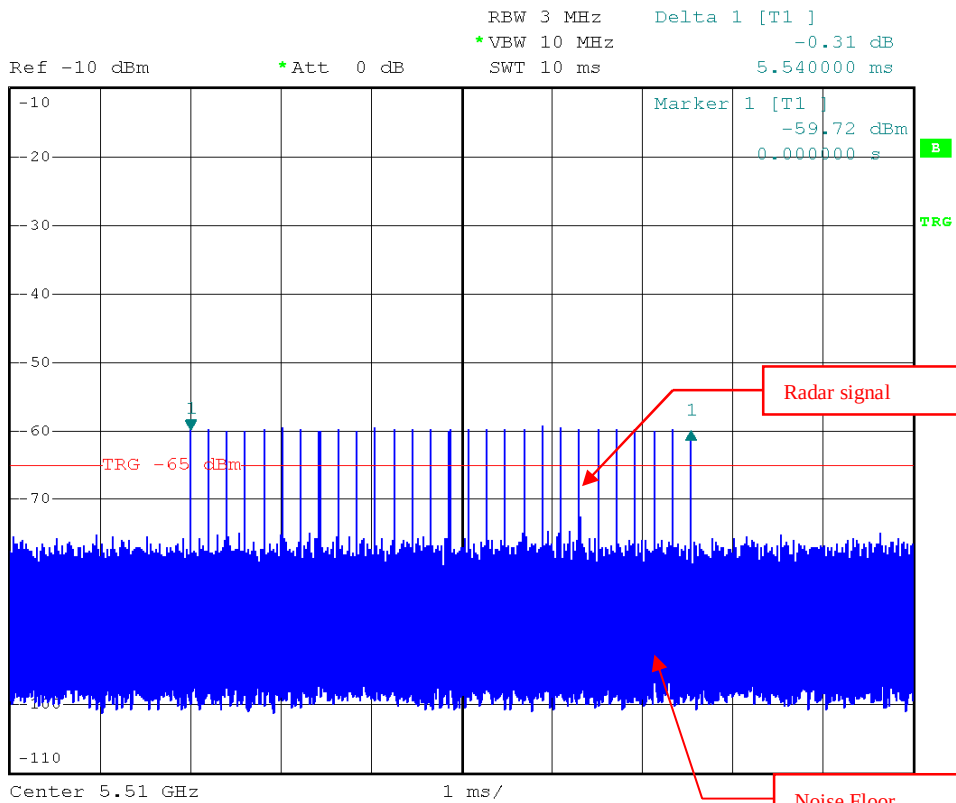
For a detection threshold level of  $-64\text{dBm}$  and net gain is  $3.72\text{dBi}$ . The required detection threshold is  $-59.28\text{dBm}$  ( $= -64 + 3.72 + 1$ )  $\text{dBm}$ . The conducted radar burst level is set to  $-59.28\text{dBm}$ .



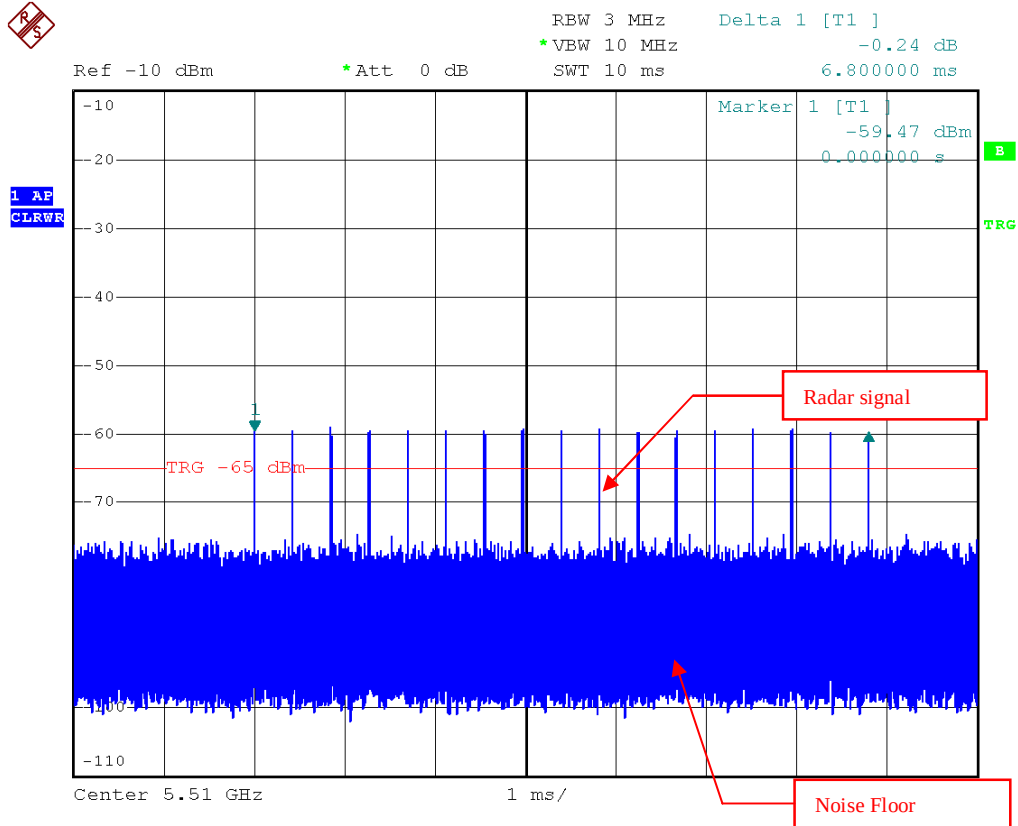
Radar Signal 1



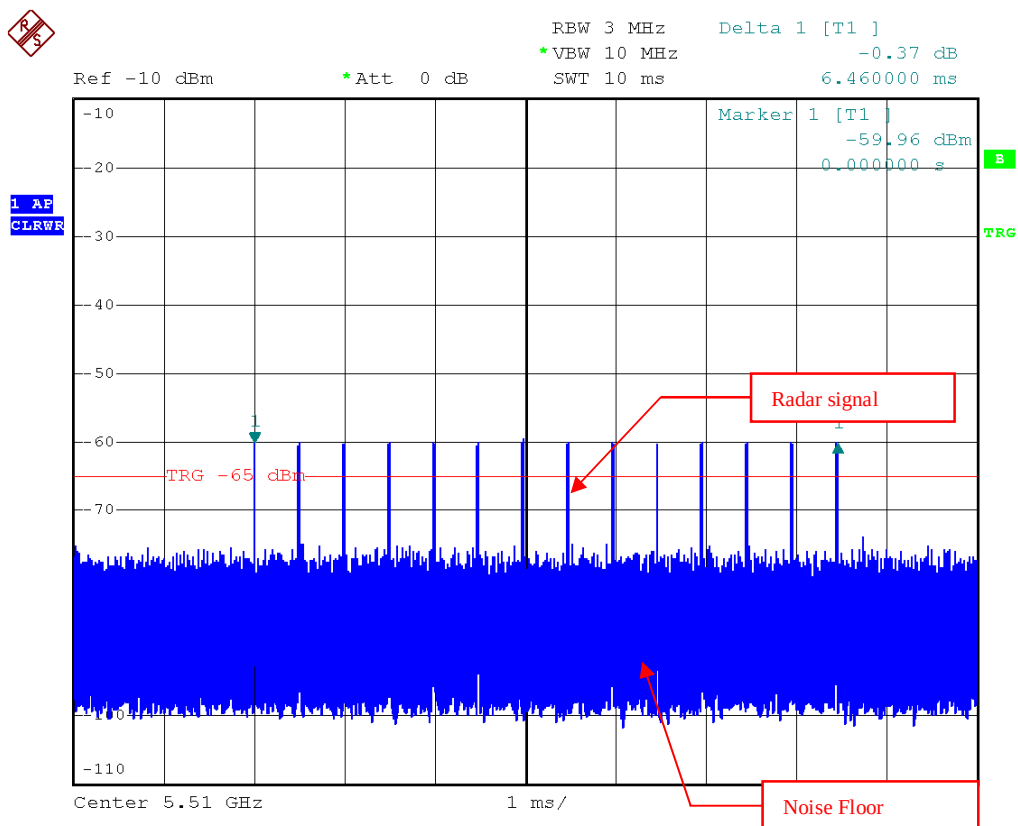
1 AF  
CLRWR



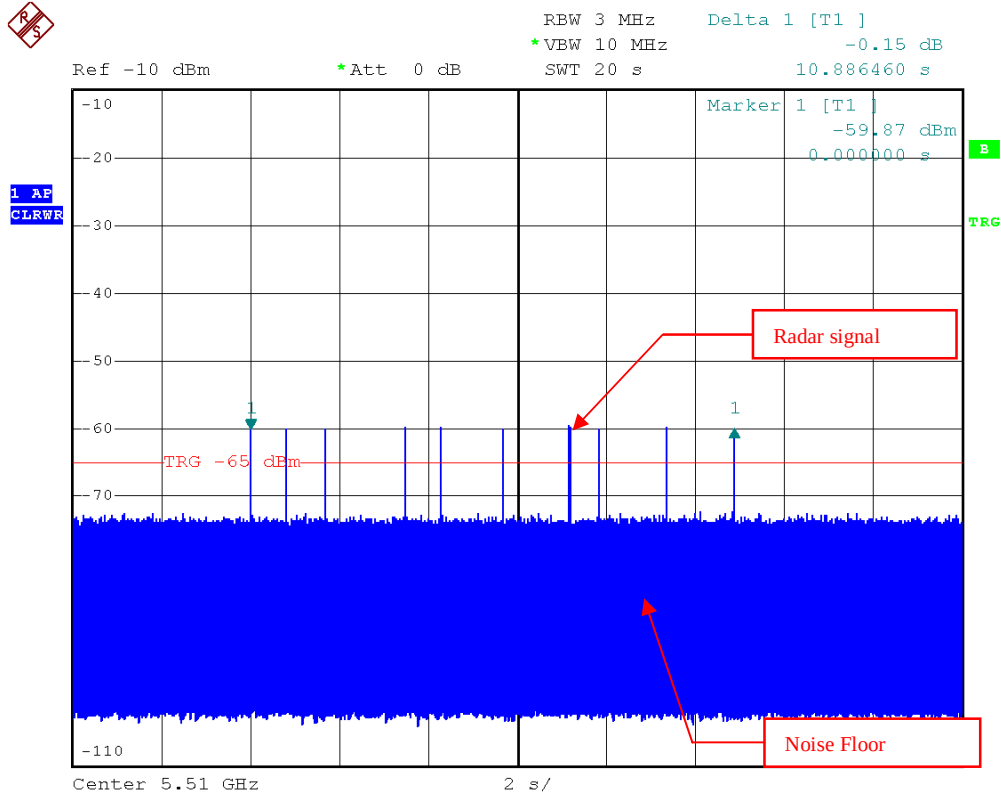
Radar Signal 2



Radar Signal 3



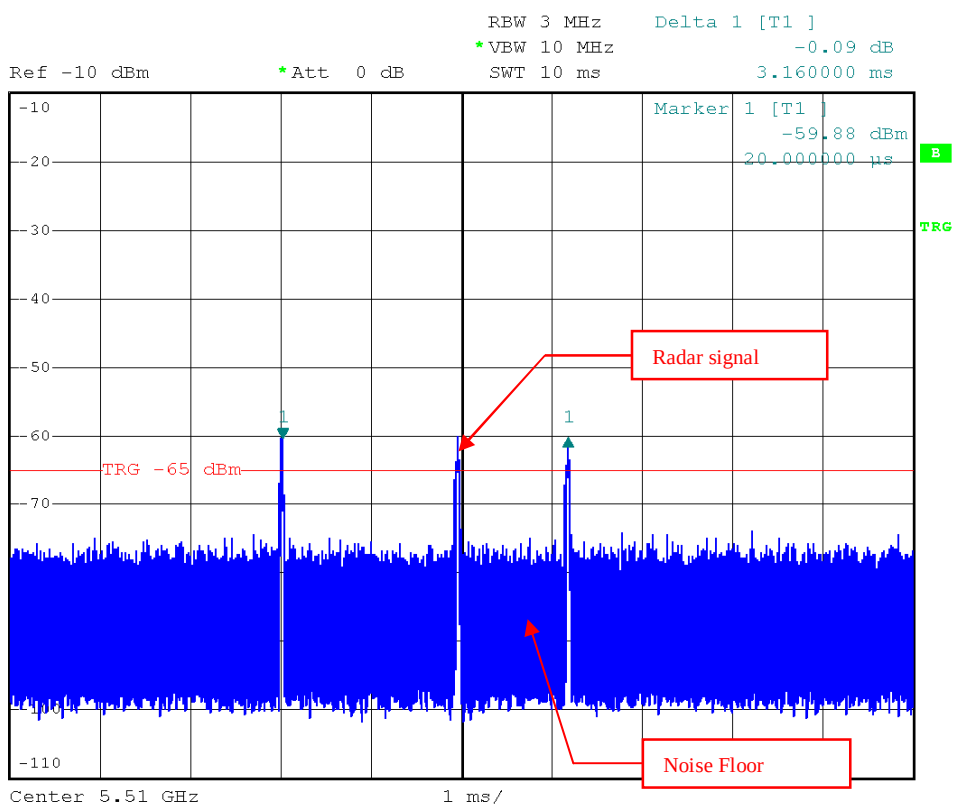
Radar Signal 4



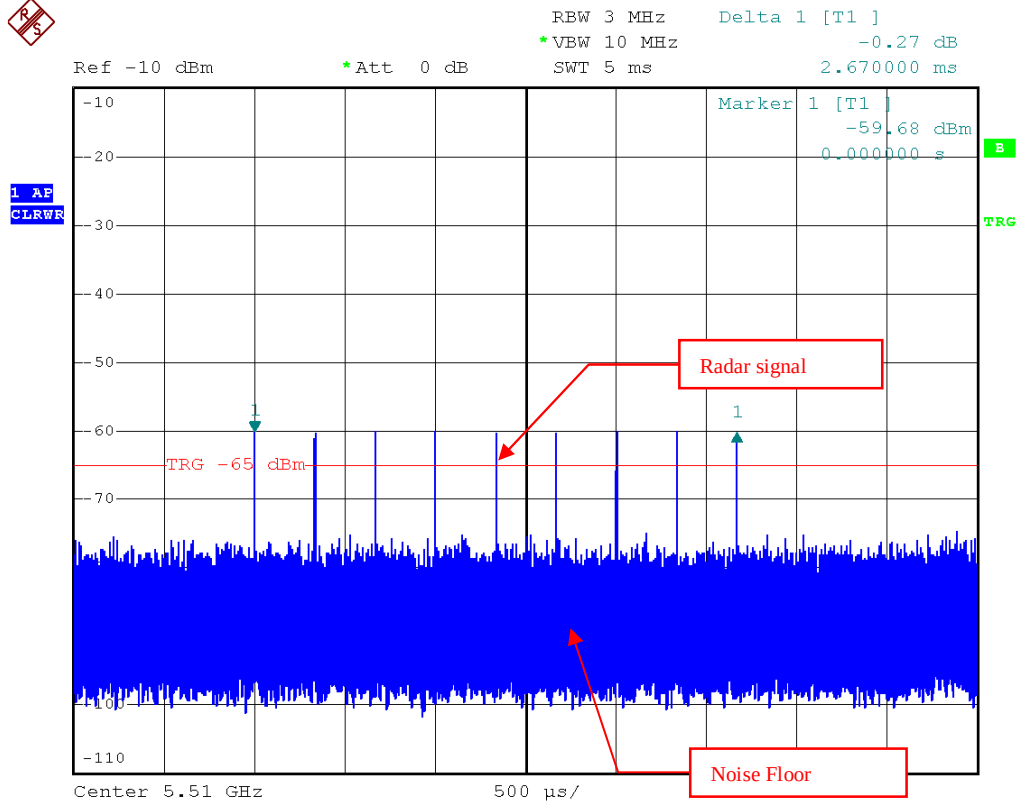
Radar Signal 5



1 RF  
VIEW



Single Burst of Radar Signal 5



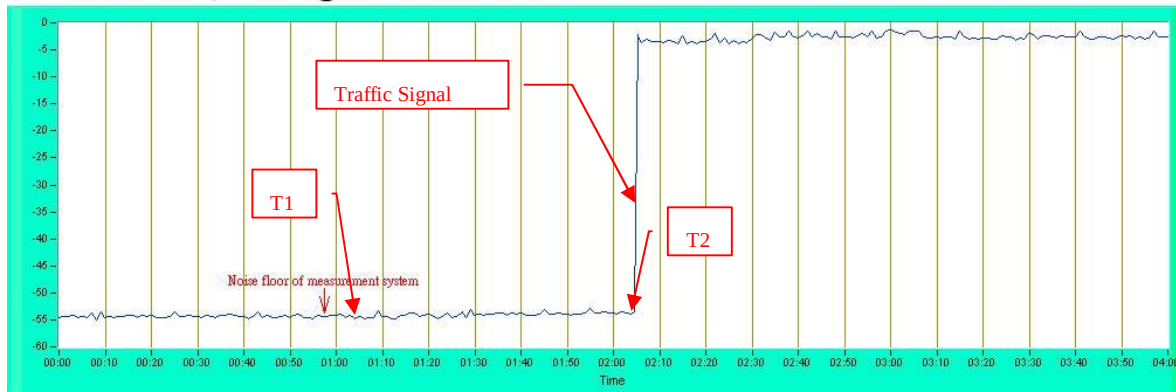
Radar Signal 6



## 6.2.1.2 CHANNEL AVAILABILITY CHECK TIME

### Initial Channel Availability Check Time

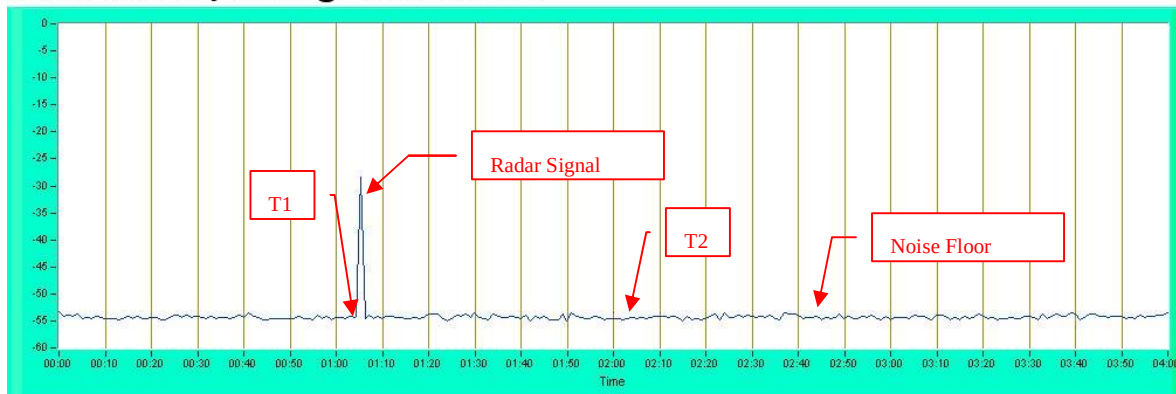
Channel Availability Check @ CH102 - 5510MHz



**NOTE:** T1 denotes the end of power-up time period is 64<sup>th</sup> second. T2 denotes the end of Channel Availability Check time is 124<sup>th</sup> second. Channel Availability Check time is equal to ( T2 – T1) 60 seconds.

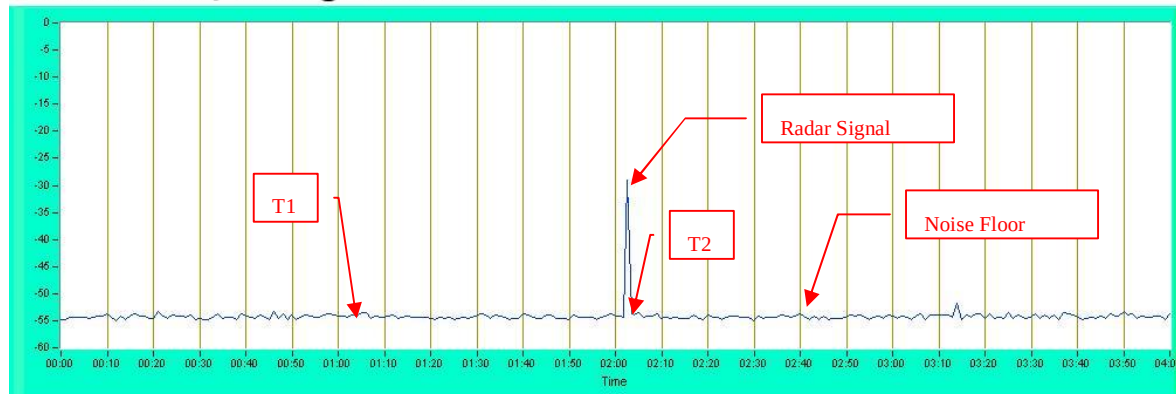
### Radar Burst at the Beginning of the Channel Availability Check Time

Channel Availability Check @ CH102 - 5510MHz



**NOTE:** T1 denotes the end of power up time period is 64<sup>th</sup> second. T3 denotes the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T2 denotes the 124<sup>th</sup> second.

# Radar Burst at the End of the Channel Availability Check Time Channel Availability Check @ CH102 - 5510MHz



**NOTE:** T1 denotes the end of power up time period is 64<sup>th</sup> second. T2 denotes 124<sup>th</sup> second. The radar burst was commenced within 6 s before time T2.

### 6.2.1.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME 802.11n HT20

**Table 4: Short Pulse Radar Test Waveforms.**

| Radar Type                  | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------|------------|------------------|-------------------------|----------------------------------------|
| 1                           | 1                  | 1428       | 18               | 30                      | 86.7%                                  |
| 2                           | 1-5                | 150-230    | 23-29            | 30                      | 83.3%                                  |
| 3                           | 6-10               | 200-500    | 16-18            | 30                      | 80.0%                                  |
| 4                           | 11-20              | 200-500    | 12-16            | 30                      | 86.7%                                  |
| Aggregate (Radar Types 1-4) |                    |            |                  | 120                     | 84.17%                                 |

**Table 5: Long Pulse Radar Test Waveform**

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

**Table 6: Frequency Hopping Radar Test Waveform**

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 100.0%                                 |

802.11n HT40

Table 7: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------|------------|------------------|-------------------------|----------------------------------------|
| 1                           | 1                  | 1428       | 18               | 30                      | 90.0%                                  |
| 2                           | 1-5                | 150-230    | 23-29            | 30                      | 76.7%                                  |
| 3                           | 6-10               | 200-500    | 16-18            | 30                      | 86.7%                                  |
| 4                           | 11-20              | 200-500    | 12-16            | 30                      | 80.0%                                  |
| Aggregate (Radar Types 1-4) |                    |            |                  | 120                     | 83.33%                                 |

Table 8: 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                      | 96.7%                                  |

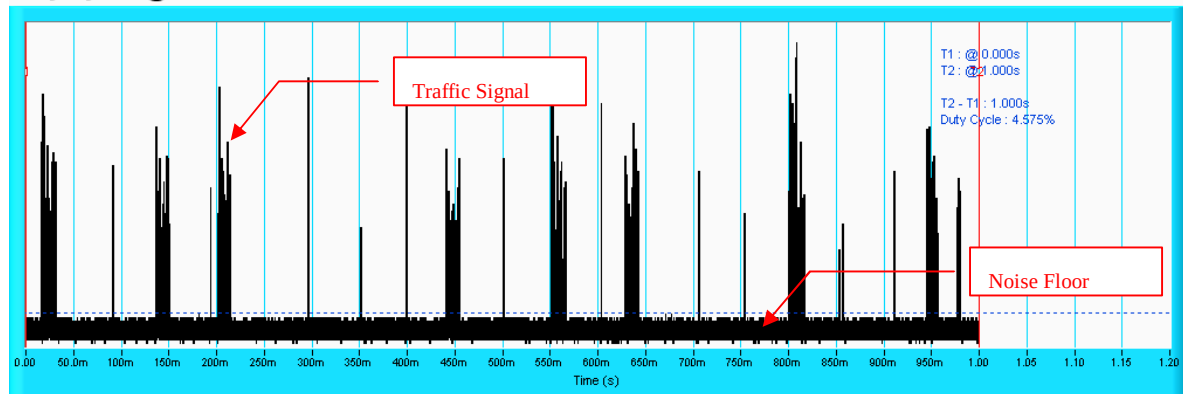
Table 9: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 100.0%                                 |

## WLAN TRAFFIC

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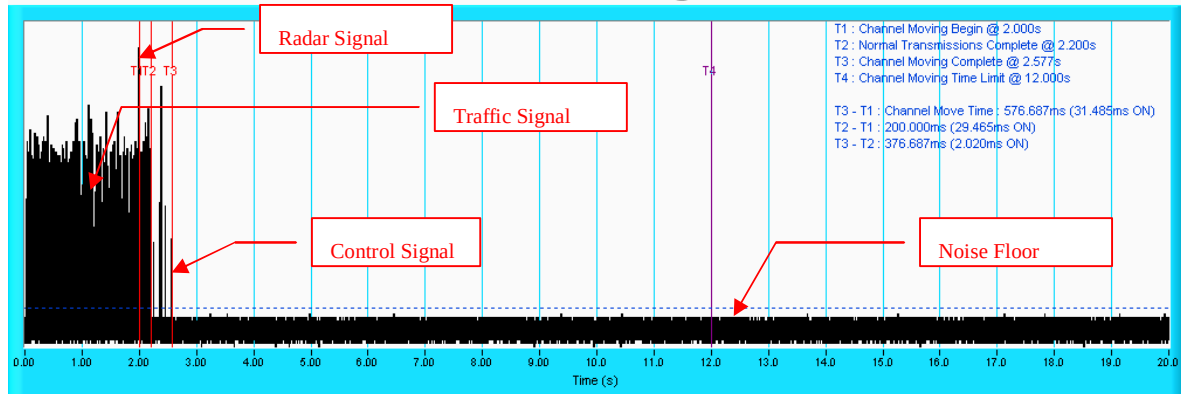
#### Duty Cycle @ CH102 - 5510MHz



**NOTE:** T1 denotes the start of duty cycle period is 0<sup>th</sup> second. T2 denotes the end of channel loading period is 1<sup>th</sup> second. T2 – T1= 1 seconds. Channel Loading = 4.575%

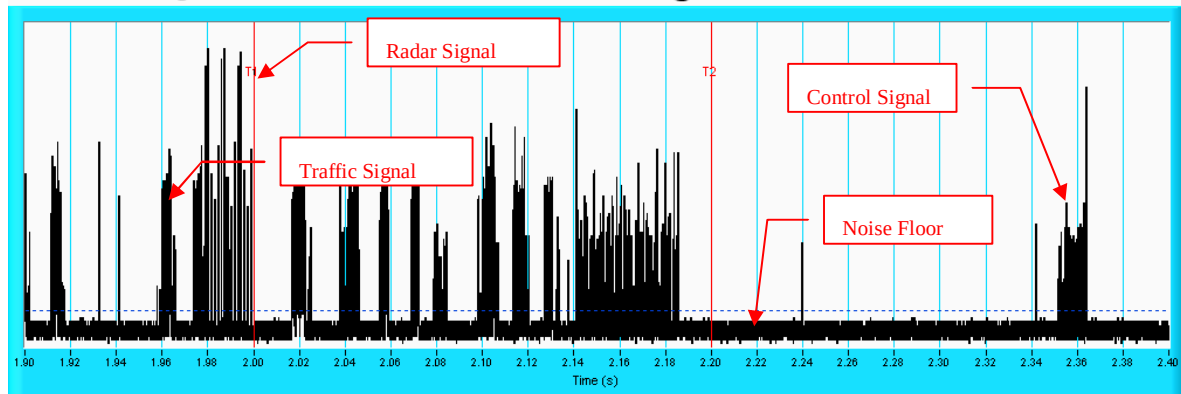
## Radar signal 1

### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



**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.

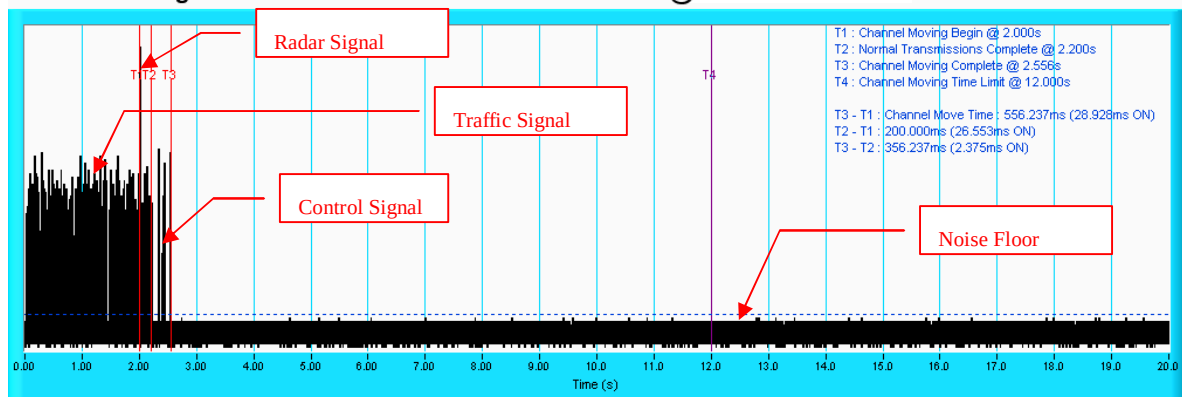
### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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

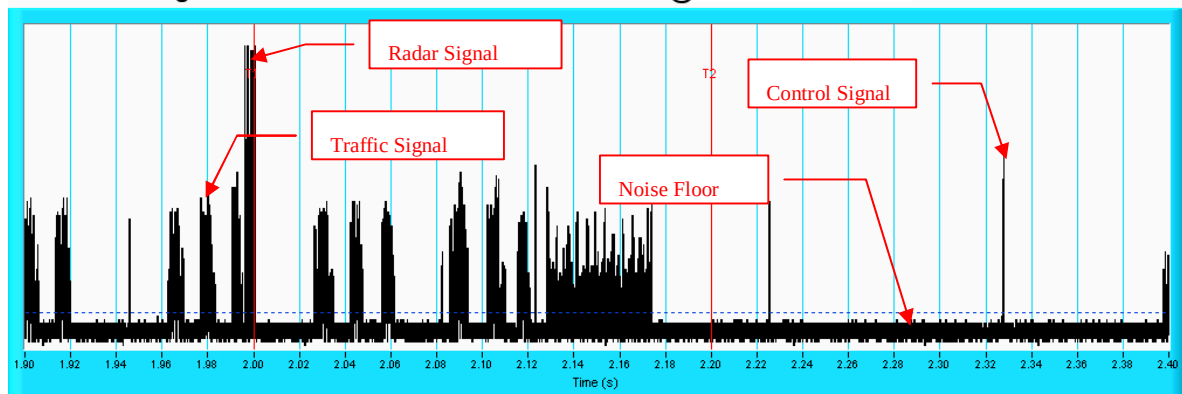
## Radar signal 2

### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



**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.

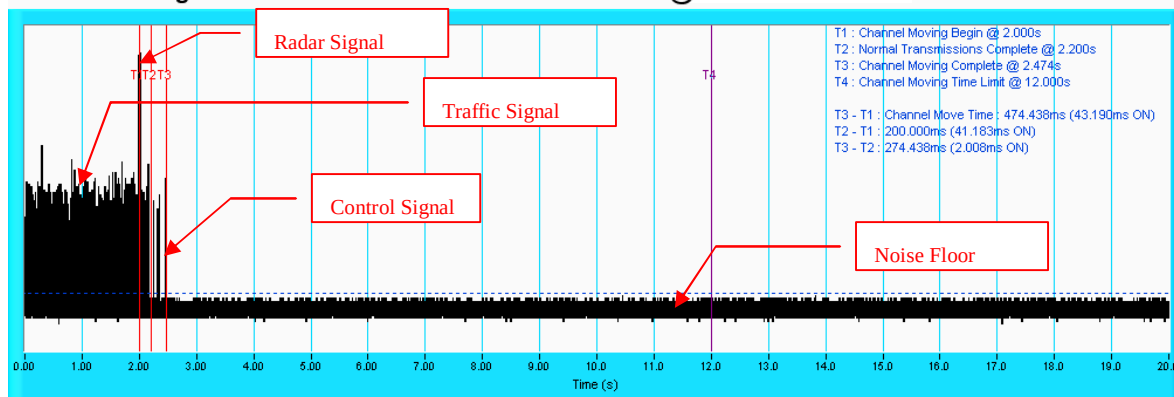
### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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

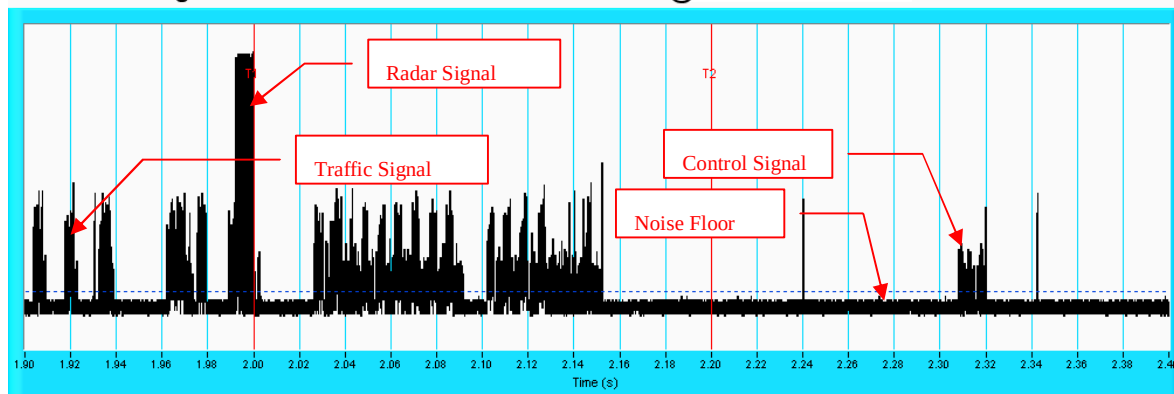
## Radar signal 3

### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



**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 @ CH102 - 5510MHz

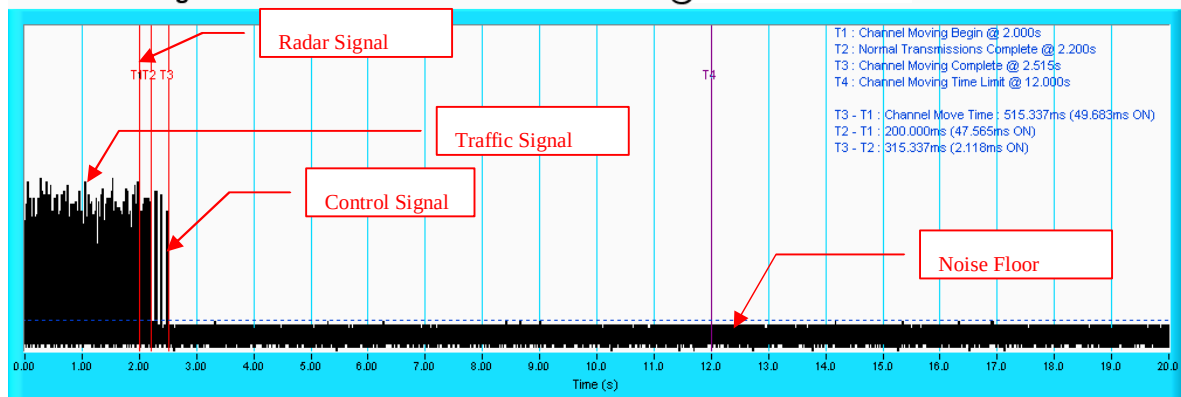


**NOTE:** An expanded plot for the device vacates the channel in the required 500ms.



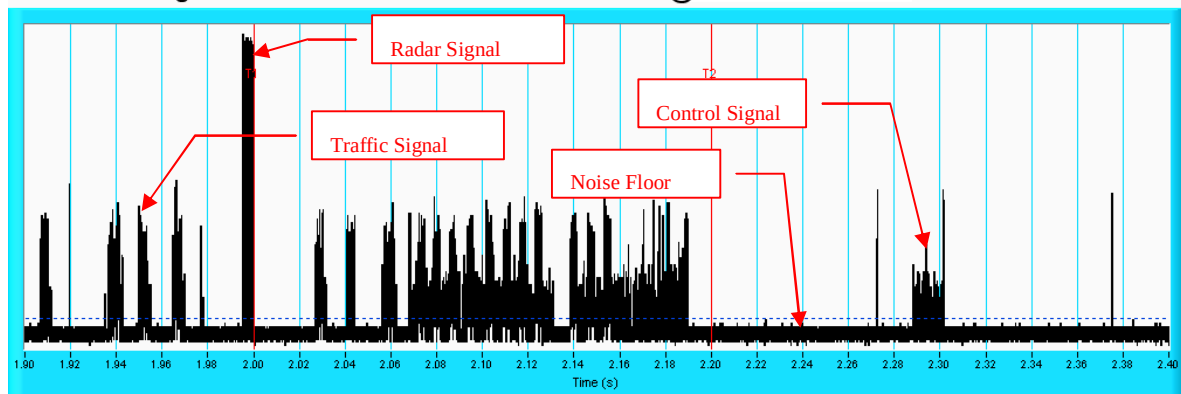
## Radar signal 4

### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



**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.

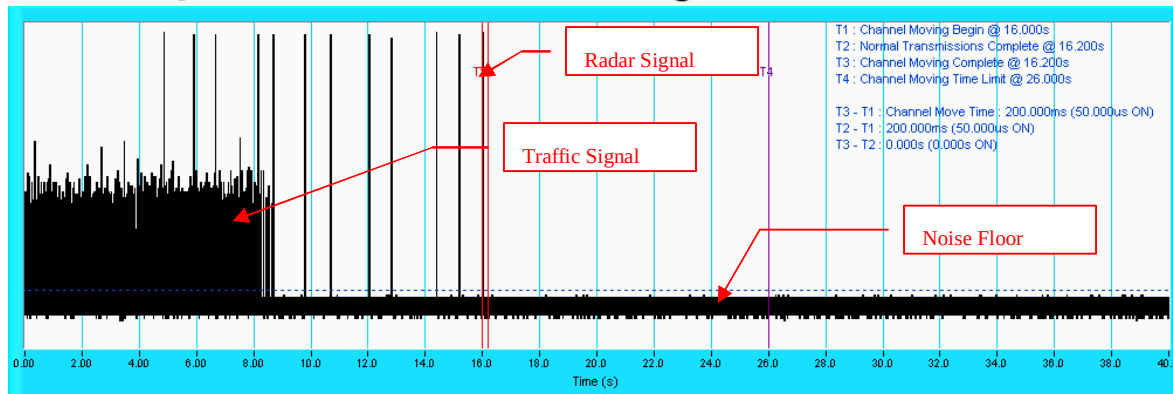
### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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

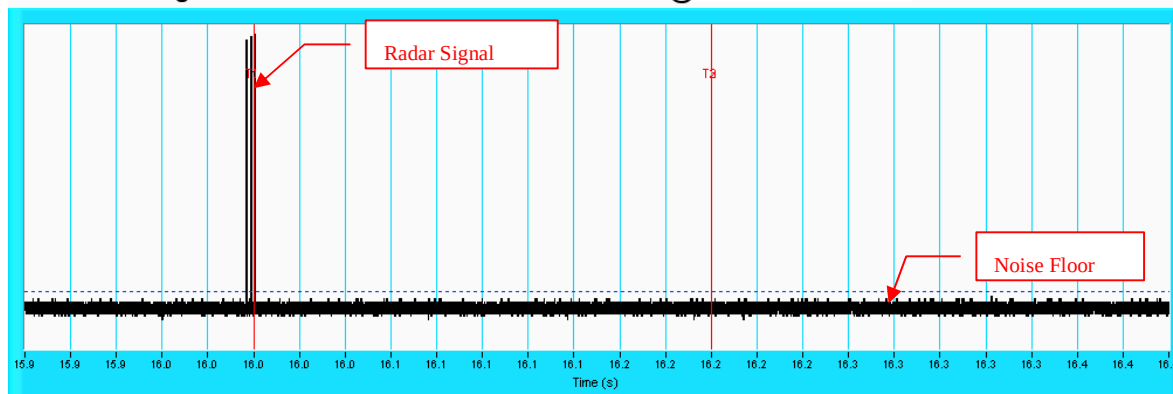
## Radar signal 5

### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



**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.

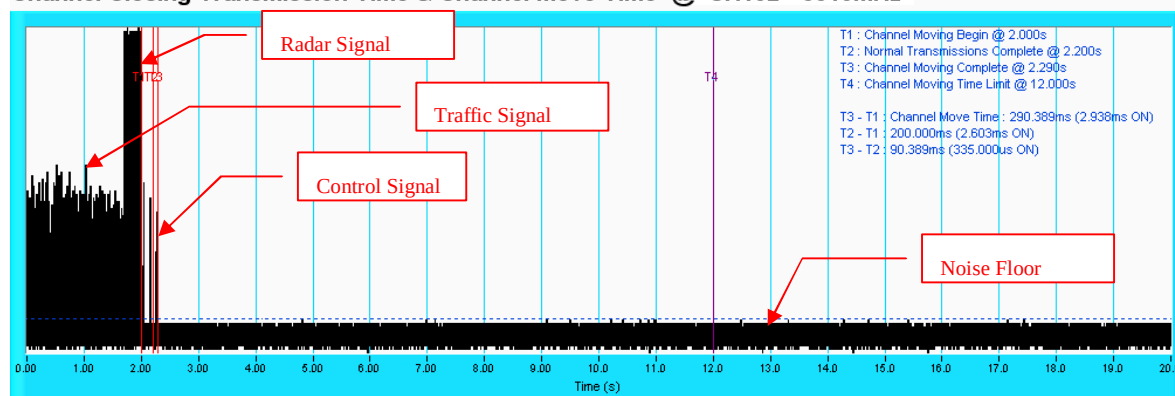
### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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

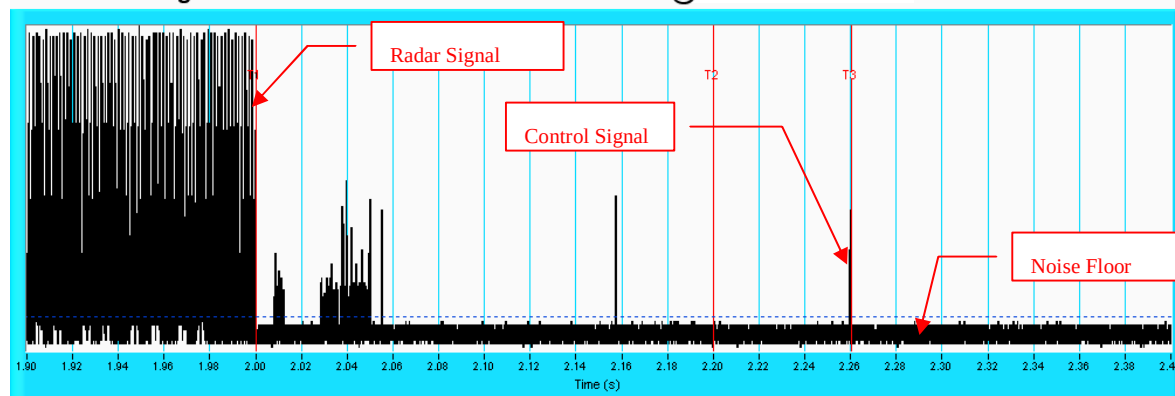
## Radar signal 6

### Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



**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 @ CH102 - 5510MHz



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

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| Type 1 Radar Statistical Performances |                  |                 |         |           |
|---------------------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 2                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 3                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 4                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 5                                     | 18               | 1.0u            | 1.428m  | No        |
| 6                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 7                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 8                                     | 18               | 1.0u            | 1.428m  | No        |
| 9                                     | 18               | 1.0u            | 1.428m  | Yes       |
| 10                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 11                                    | 18               | 1.0u            | 1.428m  | No        |
| 12                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 13                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 14                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 15                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 16                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 17                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 18                                    | 18               | 1.0u            | 1.428m  | No        |
| 19                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 20                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 21                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 22                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 23                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 24                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 25                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 26                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 27                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 28                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 29                                    | 18               | 1.0u            | 1.428m  | Yes       |
| 30                                    | 18               | 1.0u            | 1.428m  | Yes       |
| Detection Rate: 86.7 %                |                  |                 |         |           |

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| Type 2 Radar Statistical Performances |                  |                 |         |           |
|---------------------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1                                     | 28               | 2.5u            | 179.0u  | Yes       |
| 2                                     | 26               | 1.3u            | 177.0u  | No        |
| 3                                     | 23               | 3.4u            | 198.0u  | Yes       |
| 4                                     | 28               | 2.8u            | 166.0u  | Yes       |
| 5                                     | 23               | 3.6u            | 210.0u  | Yes       |
| 6                                     | 26               | 4.4u            | 223.0u  | Yes       |
| 7                                     | 24               | 2.5u            | 222.0u  | Yes       |
| 8                                     | 23               | 1.9u            | 194.0u  | Yes       |
| 9                                     | 26               | 3.2u            | 159.0u  | No        |
| 10                                    | 27               | 3.6u            | 211.0u  | Yes       |
| 11                                    | 25               | 1.0u            | 158.0u  | Yes       |
| 12                                    | 27               | 3.9u            | 222.0u  | Yes       |
| 13                                    | 25               | 1.1u            | 160.0u  | Yes       |
| 14                                    | 27               | 3.5u            | 198.0u  | Yes       |
| 15                                    | 24               | 2.2u            | 194.0u  | Yes       |
| 16                                    | 24               | 1.8u            | 181.0u  | Yes       |
| 17                                    | 27               | 4.6u            | 208.0u  | Yes       |
| 18                                    | 25               | 3.8u            | 189.0u  | Yes       |
| 19                                    | 23               | 3.3u            | 200.0u  | Yes       |
| 20                                    | 25               | 4.9u            | 151.0u  | Yes       |
| 21                                    | 28               | 1.9u            | 182.0u  | No        |
| 22                                    | 27               | 4.6u            | 222.0u  | Yes       |
| 23                                    | 28               | 1.3u            | 224.0u  | No        |
| 24                                    | 26               | 2.5u            | 205.0u  | Yes       |
| 25                                    | 25               | 3.1u            | 222.0u  | Yes       |
| 26                                    | 24               | 1.1u            | 224.0u  | Yes       |
| 27                                    | 24               | 3.5u            | 189.0u  | Yes       |
| 28                                    | 26               | 1.9u            | 151.0u  | Yes       |
| 29                                    | 28               | 1.4u            | 210.0u  | No        |
| 30                                    | 28               | 1.2u            | 212.0u  | Yes       |
| Detection Rate: 83.3 %                |                  |                 |         |           |

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| Type 3 Radar Statistical Performances |                  |                 |         |                      |
|---------------------------------------|------------------|-----------------|---------|----------------------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection            |
| 1                                     | 16               | 9.9u            | 332.0u  | Yes                  |
| 2                                     | 16               | 9.3u            | 464.0u  | No                   |
| 3                                     | 16               | 7.4u            | 492.0u  | Yes                  |
| 4                                     | 17               | 9.2u            | 260.0u  | Yes                  |
| 5                                     | 17               | 9.1u            | 318.0u  | Yes                  |
| 6                                     | 17               | 8.4u            | 368.0u  | Yes                  |
| 7                                     | 18               | 8.6u            | 319.0u  | Yes                  |
| 8                                     | 17               | 8.9u            | 361.0u  | Yes                  |
| 9                                     | 17               | 6.7u            | 341.0u  | Yes                  |
| 10                                    | 18               | 9.9u            | 441.0u  | Yes                  |
| 11                                    | 18               | 6.2u            | 322.0u  | Yes                  |
| 12                                    | 16               | 9.8u            | 350.0u  | No                   |
| 13                                    | 17               | 8.0u            | 284.0u  | Yes                  |
| 14                                    | 17               | 7.6u            | 302.0u  | Yes                  |
| 15                                    | 16               | 8.0u            | 358.0u  | Yes                  |
| 16                                    | 16               | 6.7u            | 228.0u  | No                   |
| 17                                    | 18               | 6.5u            | 238.0u  | Yes                  |
| 18                                    | 17               | 9.9u            | 494.0u  | No                   |
| 19                                    | 18               | 6.0u            | 200.0u  | Yes                  |
| 20                                    | 18               | 6.8u            | 409.0u  | Yes                  |
| 21                                    | 16               | 9.9u            | 303.0u  | No                   |
| 22                                    | 16               | 8.2u            | 330.0u  | No                   |
| 23                                    | 18               | 7.6u            | 415.0u  | Yes                  |
| 24                                    | 18               | 8.9u            | 291.0u  | Yes                  |
| 25                                    | 17               | 9.5u            | 262.0u  | Yes                  |
| 26                                    | 18               | 8.0u            | 234.0u  | Yes                  |
| 27                                    | 17               | 9.1u            | 320.0u  | Yes                  |
| 28                                    | 17               | 8.6u            | 392.0u  | Yes                  |
| 29                                    | 18               | 6.3u            | 322.0u  | Yes                  |
| 30                                    | 17               | 6.9u            | 414.0u  | Yes                  |
|                                       |                  |                 |         | Detection Rate: 80 % |

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| Type 4 Radar Statistical Performances |                  |                 |         |           |
|---------------------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1                                     | 15               | 13.3u           | 447.0u  | Yes       |
| 2                                     | 14               | 13.0u           | 470.0u  | No        |
| 3                                     | 14               | 15.1u           | 305.0u  | Yes       |
| 4                                     | 14               | 14.7u           | 334.0u  | Yes       |
| 5                                     | 13               | 17.6u           | 332.0u  | No        |
| 6                                     | 15               | 16.3u           | 364.0u  | Yes       |
| 7                                     | 14               | 19.2u           | 354.0u  | Yes       |
| 8                                     | 12               | 16.5u           | 248.0u  | Yes       |
| 9                                     | 12               | 15.0u           | 419.0u  | Yes       |
| 10                                    | 13               | 17.6u           | 281.0u  | No        |
| 11                                    | 14               | 17.9u           | 425.0u  | Yes       |
| 12                                    | 13               | 17.1u           | 244.0u  | Yes       |
| 13                                    | 13               | 13.8u           | 305.0u  | Yes       |
| 14                                    | 13               | 14.8u           | 391.0u  | Yes       |
| 15                                    | 16               | 19.0u           | 460.0u  | Yes       |
| 16                                    | 16               | 12.9u           | 275.0u  | Yes       |
| 17                                    | 14               | 11.2u           | 237.0u  | Yes       |
| 18                                    | 15               | 12.3u           | 369.0u  | Yes       |
| 19                                    | 15               | 14.1u           | 264.0u  | Yes       |
| 20                                    | 13               | 19.7u           | 304.0u  | Yes       |
| 21                                    | 14               | 18.5u           | 345.0u  | Yes       |
| 22                                    | 16               | 17.6u           | 339.0u  | Yes       |
| 23                                    | 14               | 18.4u           | 296.0u  | Yes       |
| 24                                    | 13               | 14.0u           | 459.0u  | Yes       |
| 25                                    | 13               | 15.1u           | 330.0u  | No        |
| 26                                    | 14               | 17.8u           | 443.0u  | Yes       |
| 27                                    | 13               | 15.9u           | 230.0u  | Yes       |
| 28                                    | 14               | 16.1u           | 291.0u  | Yes       |
| 29                                    | 15               | 17.4u           | 348.0u  | Yes       |
| 30                                    | 15               | 11.2u           | 432.0u  | Yes       |
| Detection Rate: 86.7 %                |                  |                 |         |           |

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| Type 5 Radar Statistical Performances |                   |                        |
|---------------------------------------|-------------------|------------------------|
| Trial #                               | Test Signal Name  | Detection              |
| 1                                     | LP_HT20_Signal_01 | Yes                    |
| 2                                     | LP_HT20_Signal_02 | Yes                    |
| 3                                     | LP_HT20_Signal_03 | Yes                    |
| 4                                     | LP_HT20_Signal_04 | Yes                    |
| 5                                     | LP_HT20_Signal_05 | Yes                    |
| 6                                     | LP_HT20_Signal_06 | Yes                    |
| 7                                     | LP_HT20_Signal_07 | Yes                    |
| 8                                     | LP_HT20_Signal_08 | Yes                    |
| 9                                     | LP_HT20_Signal_09 | Yes                    |
| 10                                    | LP_HT20_Signal_10 | Yes                    |
| 11                                    | LP_HT20_Signal_11 | Yes                    |
| 12                                    | LP_HT20_Signal_12 | Yes                    |
| 13                                    | LP_HT20_Signal_13 | Yes                    |
| 14                                    | LP_HT20_Signal_14 | Yes                    |
| 15                                    | LP_HT20_Signal_15 | Yes                    |
| 16                                    | LP_HT20_Signal_16 | Yes                    |
| 17                                    | LP_HT20_Signal_17 | Yes                    |
| 18                                    | LP_HT20_Signal_18 | Yes                    |
| 19                                    | LP_HT20_Signal_19 | No                     |
| 20                                    | LP_HT20_Signal_20 | Yes                    |
| 21                                    | LP_HT20_Signal_21 | Yes                    |
| 22                                    | LP_HT20_Signal_22 | Yes                    |
| 23                                    | LP_HT20_Signal_23 | Yes                    |
| 24                                    | LP_HT20_Signal_24 | Yes                    |
| 25                                    | LP_HT20_Signal_25 | No                     |
| 26                                    | LP_HT20_Signal_26 | Yes                    |
| 27                                    | LP_HT20_Signal_27 | Yes                    |
| 28                                    | LP_HT20_Signal_28 | Yes                    |
| 29                                    | LP_HT20_Signal_29 | Yes                    |
| 30                                    | LP_HT20_Signal_30 | Yes                    |
|                                       |                   | Detection Rate: 93.3 % |

The Long Pulse Radar pattern shown in Annex B.1



**A D T****802.11n HT20**

| Type 6 Radar Statistical Performances |                  |                 |         |           |
|---------------------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 2                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 3                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 4                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 5                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 6                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 7                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 8                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 9                                     | 9                | 1.0u            | 333.0u  | Yes       |
| 10                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 11                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 12                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 13                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 14                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 15                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 16                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 17                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 18                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 19                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 20                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 21                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 22                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 23                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 24                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 25                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 26                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 27                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 28                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 29                                    | 9                | 1.0u            | 333.0u  | Yes       |
| 30                                    | 9                | 1.0u            | 333.0u  | Yes       |
| Detection Rate: 100.0 %               |                  |                 |         |           |



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### Type 6 Radar Statistical Performances

| Trial # | Hopping Frequency Sequence Name | Detection             |
|---------|---------------------------------|-----------------------|
| 1       | HOP_FREQ_SEQ_HT20_01            | Yes                   |
| 2       | HOP_FREQ_SEQ_HT20_02            | Yes                   |
| 3       | HOP_FREQ_SEQ_HT20_03            | Yes                   |
| 4       | HOP_FREQ_SEQ_HT20_04            | Yes                   |
| 5       | HOP_FREQ_SEQ_HT20_05            | Yes                   |
| 6       | HOP_FREQ_SEQ_HT20_06            | Yes                   |
| 7       | HOP_FREQ_SEQ_HT20_07            | Yes                   |
| 8       | HOP_FREQ_SEQ_HT20_08            | Yes                   |
| 9       | HOP_FREQ_SEQ_HT20_09            | Yes                   |
| 10      | HOP_FREQ_SEQ_HT20_10            | Yes                   |
| 11      | HOP_FREQ_SEQ_HT20_11            | Yes                   |
| 12      | HOP_FREQ_SEQ_HT20_12            | Yes                   |
| 13      | HOP_FREQ_SEQ_HT20_13            | Yes                   |
| 14      | HOP_FREQ_SEQ_HT20_14            | Yes                   |
| 15      | HOP_FREQ_SEQ_HT20_15            | Yes                   |
| 16      | HOP_FREQ_SEQ_HT20_16            | Yes                   |
| 17      | HOP_FREQ_SEQ_HT20_17            | Yes                   |
| 18      | HOP_FREQ_SEQ_HT20_18            | Yes                   |
| 19      | HOP_FREQ_SEQ_HT20_19            | Yes                   |
| 20      | HOP_FREQ_SEQ_HT20_20            | Yes                   |
| 21      | HOP_FREQ_SEQ_HT20_21            | Yes                   |
| 22      | HOP_FREQ_SEQ_HT20_22            | Yes                   |
| 23      | HOP_FREQ_SEQ_HT20_23            | Yes                   |
| 24      | HOP_FREQ_SEQ_HT20_24            | Yes                   |
| 25      | HOP_FREQ_SEQ_HT20_25            | Yes                   |
| 26      | HOP_FREQ_SEQ_HT20_26            | Yes                   |
| 27      | HOP_FREQ_SEQ_HT20_27            | Yes                   |
| 28      | HOP_FREQ_SEQ_HT20_28            | Yes                   |
| 29      | HOP_FREQ_SEQ_HT20_29            | Yes                   |
| 30      | HOP_FREQ_SEQ_HT20_30            | Yes                   |
|         |                                 | Detection Rate: 100 % |

The Frequency Hopping Radar pattern shown in Annex B.2

**A D T****802.11n HT40****Type 1 Radar Statistical Performances**

| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|---------|------------------|-----------------|---------|-----------|
| 1       | 18               | 1.0u            | 1.428m  | Yes       |
| 2       | 18               | 1.0u            | 1.428m  | Yes       |
| 3       | 18               | 1.0u            | 1.428m  | Yes       |
| 4       | 18               | 1.0u            | 1.428m  | Yes       |
| 5       | 18               | 1.0u            | 1.428m  | Yes       |
| 6       | 18               | 1.0u            | 1.428m  | Yes       |
| 7       | 18               | 1.0u            | 1.428m  | Yes       |
| 8       | 18               | 1.0u            | 1.428m  | No        |
| 9       | 18               | 1.0u            | 1.428m  | Yes       |
| 10      | 18               | 1.0u            | 1.428m  | Yes       |
| 11      | 18               | 1.0u            | 1.428m  | Yes       |
| 12      | 18               | 1.0u            | 1.428m  | Yes       |
| 13      | 18               | 1.0u            | 1.428m  | Yes       |
| 14      | 18               | 1.0u            | 1.428m  | No        |
| 15      | 18               | 1.0u            | 1.428m  | Yes       |
| 16      | 18               | 1.0u            | 1.428m  | Yes       |
| 17      | 18               | 1.0u            | 1.428m  | Yes       |
| 18      | 18               | 1.0u            | 1.428m  | Yes       |
| 19      | 18               | 1.0u            | 1.428m  | No        |
| 20      | 18               | 1.0u            | 1.428m  | Yes       |
| 21      | 18               | 1.0u            | 1.428m  | Yes       |
| 22      | 18               | 1.0u            | 1.428m  | Yes       |
| 23      | 18               | 1.0u            | 1.428m  | Yes       |
| 24      | 18               | 1.0u            | 1.428m  | Yes       |
| 25      | 18               | 1.0u            | 1.428m  | Yes       |
| 26      | 18               | 1.0u            | 1.428m  | Yes       |
| 27      | 18               | 1.0u            | 1.428m  | Yes       |
| 28      | 18               | 1.0u            | 1.428m  | Yes       |
| 29      | 18               | 1.0u            | 1.428m  | Yes       |
| 30      | 18               | 1.0u            | 1.428m  | Yes       |

**Detection Rate: 90.0%**

**A D T****802.11n HT40**

| Type 2 Radar Statistical Performances |                  |                 |         |           |
|---------------------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1                                     | 29               | 5.0u            | 155.0u  | No        |
| 2                                     | 24               | 4.0u            | 175.0u  | Yes       |
| 3                                     | 28               | 5.0u            | 207.0u  | Yes       |
| 4                                     | 25               | 3.8u            | 212.0u  | Yes       |
| 5                                     | 25               | 3.2u            | 151.0u  | Yes       |
| 6                                     | 29               | 4.0u            | 201.0u  | Yes       |
| 7                                     | 23               | 2.5u            | 223.0u  | No        |
| 8                                     | 24               | 4.3u            | 161.0u  | Yes       |
| 9                                     | 24               | 3.5u            | 183.0u  | No        |
| 10                                    | 23               | 4.9u            | 165.0u  | Yes       |
| 11                                    | 27               | 2.3u            | 207.0u  | Yes       |
| 12                                    | 24               | 1.6u            | 223.0u  | Yes       |
| 13                                    | 26               | 4.2u            | 212.0u  | Yes       |
| 14                                    | 25               | 4.3u            | 219.0u  | Yes       |
| 15                                    | 27               | 3.1u            | 194.0u  | Yes       |
| 16                                    | 27               | 1.3u            | 171.0u  | No        |
| 17                                    | 25               | 2.2u            | 165.0u  | Yes       |
| 18                                    | 28               | 1.4u            | 214.0u  | Yes       |
| 19                                    | 28               | 4.2u            | 194.0u  | No        |
| 20                                    | 27               | 4.2u            | 195.0u  | Yes       |
| 21                                    | 27               | 1.3u            | 200.0u  | Yes       |
| 22                                    | 28               | 2.0u            | 229.0u  | Yes       |
| 23                                    | 28               | 4.2u            | 224.0u  | No        |
| 24                                    | 25               | 3.2u            | 222.0u  | Yes       |
| 25                                    | 28               | 4.7u            | 182.0u  | No        |
| 26                                    | 27               | 4.6u            | 202.0u  | Yes       |
| 27                                    | 25               | 3.5u            | 200.0u  | Yes       |
| 28                                    | 28               | 1.7u            | 210.0u  | Yes       |
| 29                                    | 27               | 1.3u            | 205.0u  | Yes       |
| 30                                    | 25               | 4.5u            | 160.0u  | Yes       |
| Detection Rate: 76.7 %                |                  |                 |         |           |

**A D T****802.11n HT40**

| Type 3 Radar Statistical Performances |                  |                 |         |           |
|---------------------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1                                     | 16               | 9.5u            | 474.0u  | Yes       |
| 2                                     | 17               | 8.2u            | 269.0u  | Yes       |
| 3                                     | 17               | 7.5u            | 247.0u  | Yes       |
| 4                                     | 17               | 6.2u            | 294.0u  | Yes       |
| 5                                     | 16               | 7.3u            | 495.0u  | Yes       |
| 6                                     | 18               | 6.1u            | 237.0u  | Yes       |
| 7                                     | 18               | 7.4u            | 419.0u  | No        |
| 8                                     | 17               | 8.0u            | 257.0u  | Yes       |
| 9                                     | 17               | 7.5u            | 392.0u  | Yes       |
| 10                                    | 17               | 9.6u            | 308.0u  | Yes       |
| 11                                    | 18               | 7.3u            | 262.0u  | Yes       |
| 12                                    | 16               | 7.7u            | 231.0u  | Yes       |
| 13                                    | 17               | 8.1u            | 390.0u  | Yes       |
| 14                                    | 16               | 7.6u            | 370.0u  | Yes       |
| 15                                    | 17               | 6.8u            | 397.0u  | Yes       |
| 16                                    | 16               | 8.6u            | 271.0u  | Yes       |
| 17                                    | 16               | 6.7u            | 375.0u  | Yes       |
| 18                                    | 18               | 6.3u            | 407.0u  | Yes       |
| 19                                    | 18               | 7.4u            | 386.0u  | Yes       |
| 20                                    | 17               | 7.4u            | 339.0u  | Yes       |
| 21                                    | 17               | 6.6u            | 480.0u  | No        |
| 22                                    | 17               | 9.8u            | 477.0u  | Yes       |
| 23                                    | 17               | 9.2u            | 455.0u  | Yes       |
| 24                                    | 17               | 9.9u            | 332.0u  | Yes       |
| 25                                    | 17               | 8.6u            | 462.0u  | No        |
| 26                                    | 17               | 6.3u            | 438.0u  | Yes       |
| 27                                    | 18               | 7.2u            | 314.0u  | No        |
| 28                                    | 17               | 7.3u            | 464.0u  | Yes       |
| 29                                    | 18               | 6.6u            | 390.0u  | Yes       |
| 30                                    | 18               | 9.7u            | 448.0u  | Yes       |
| Detection Rate: 86.7 %                |                  |                 |         |           |

**A D T****802.11n HT40**

| Type 4 Radar Statistical Performances |                  |                 |         |           |
|---------------------------------------|------------------|-----------------|---------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1                                     | 13               | 18.0u           | 451.0u  | Yes       |
| 2                                     | 13               | 18.0u           | 264.0u  | Yes       |
| 3                                     | 13               | 18.5u           | 387.0u  | Yes       |
| 4                                     | 14               | 13.6u           | 232.0u  | Yes       |
| 5                                     | 15               | 19.5u           | 421.0u  | No        |
| 6                                     | 13               | 13.4u           | 355.0u  | Yes       |
| 7                                     | 14               | 17.1u           | 498.0u  | Yes       |
| 8                                     | 12               | 14.1u           | 469.0u  | No        |
| 9                                     | 13               | 17.9u           | 309.0u  | Yes       |
| 10                                    | 13               | 14.6u           | 383.0u  | No        |
| 11                                    | 16               | 15.0u           | 417.0u  | Yes       |
| 12                                    | 15               | 11.1u           | 483.0u  | Yes       |
| 13                                    | 13               | 19.8u           | 355.0u  | Yes       |
| 14                                    | 14               | 15.3u           | 262.0u  | Yes       |
| 15                                    | 13               | 16.8u           | 494.0u  | No        |
| 16                                    | 13               | 11.5u           | 484.0u  | Yes       |
| 17                                    | 15               | 13.9u           | 262.0u  | Yes       |
| 18                                    | 13               | 11.3u           | 393.0u  | Yes       |
| 19                                    | 13               | 11.4u           | 419.0u  | No        |
| 20                                    | 14               | 14.8u           | 344.0u  | Yes       |
| 21                                    | 14               | 15.9u           | 228.0u  | Yes       |
| 22                                    | 15               | 12.9u           | 361.0u  | Yes       |
| 23                                    | 13               | 12.0u           | 230.0u  | No        |
| 24                                    | 15               | 16.2u           | 449.0u  | Yes       |
| 25                                    | 14               | 16.1u           | 490.0u  | Yes       |
| 26                                    | 14               | 12.7u           | 202.0u  | Yes       |
| 27                                    | 15               | 16.3u           | 243.0u  | Yes       |
| 28                                    | 15               | 11.0u           | 377.0u  | Yes       |
| 29                                    | 15               | 12.4u           | 464.0u  | Yes       |
| 30                                    | 13               | 14.5u           | 340.0u  | Yes       |
| Detection Rate: 80.0 %                |                  |                 |         |           |

**A D T****802.11n HT40****Type 5 Radar Statistical Performances**

| Trial # | Test Signal Name  | Detection |
|---------|-------------------|-----------|
| 1       | LP_HT40_Signal_01 | Yes       |
| 2       | LP_HT40_Signal_02 | Yes       |
| 3       | LP_HT40_Signal_03 | Yes       |
| 4       | LP_HT40_Signal_04 | Yes       |
| 5       | LP_HT40_Signal_05 | Yes       |
| 6       | LP_HT40_Signal_06 | Yes       |
| 7       | LP_HT40_Signal_07 | Yes       |
| 8       | LP_HT40_Signal_08 | Yes       |
| 9       | LP_HT40_Signal_09 | Yes       |
| 10      | LP_HT40_Signal_10 | Yes       |
| 11      | LP_HT40_Signal_11 | Yes       |
| 12      | LP_HT40_Signal_12 | Yes       |
| 13      | LP_HT40_Signal_13 | Yes       |
| 14      | LP_HT40_Signal_14 | Yes       |
| 15      | LP_HT40_Signal_15 | Yes       |
| 16      | LP_HT40_Signal_16 | Yes       |
| 17      | LP_HT40_Signal_17 | Yes       |
| 18      | LP_HT40_Signal_18 | Yes       |
| 19      | LP_HT40_Signal_19 | Yes       |
| 20      | LP_HT40_Signal_20 | No        |
| 21      | LP_HT40_Signal_21 | Yes       |
| 22      | LP_HT40_Signal_22 | Yes       |
| 23      | LP_HT40_Signal_23 | Yes       |
| 24      | LP_HT40_Signal_24 | Yes       |
| 25      | LP_HT40_Signal_25 | Yes       |
| 26      | LP_HT40_Signal_26 | Yes       |
| 27      | LP_HT40_Signal_27 | Yes       |
| 28      | LP_HT40_Signal_28 | Yes       |
| 29      | LP_HT40_Signal_29 | Yes       |
| 30      | LP_HT40_Signal_30 | Yes       |

**Detection Rate: 96.7 %**

The Long Pulse Radar pattern shown in Annex B.1

**A D T****802.11n HT40****Type 6 Radar Statistical Performances**

| Trial #                 | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
|-------------------------|------------------|-----------------|---------|-----------|
| 1                       | 9                | 1.0u            | 333.0u  | Yes       |
| 2                       | 9                | 1.0u            | 333.0u  | Yes       |
| 3                       | 9                | 1.0u            | 333.0u  | Yes       |
| 4                       | 9                | 1.0u            | 333.0u  | Yes       |
| 5                       | 9                | 1.0u            | 333.0u  | Yes       |
| 6                       | 9                | 1.0u            | 333.0u  | Yes       |
| 7                       | 9                | 1.0u            | 333.0u  | Yes       |
| 8                       | 9                | 1.0u            | 333.0u  | Yes       |
| 9                       | 9                | 1.0u            | 333.0u  | Yes       |
| 10                      | 9                | 1.0u            | 333.0u  | Yes       |
| 11                      | 9                | 1.0u            | 333.0u  | Yes       |
| 12                      | 9                | 1.0u            | 333.0u  | Yes       |
| 13                      | 9                | 1.0u            | 333.0u  | Yes       |
| 14                      | 9                | 1.0u            | 333.0u  | Yes       |
| 15                      | 9                | 1.0u            | 333.0u  | Yes       |
| 16                      | 9                | 1.0u            | 333.0u  | Yes       |
| 17                      | 9                | 1.0u            | 333.0u  | Yes       |
| 18                      | 9                | 1.0u            | 333.0u  | Yes       |
| 19                      | 9                | 1.0u            | 333.0u  | Yes       |
| 20                      | 9                | 1.0u            | 333.0u  | Yes       |
| 21                      | 9                | 1.0u            | 333.0u  | Yes       |
| 22                      | 9                | 1.0u            | 333.0u  | Yes       |
| 23                      | 9                | 1.0u            | 333.0u  | Yes       |
| 24                      | 9                | 1.0u            | 333.0u  | Yes       |
| 25                      | 9                | 1.0u            | 333.0u  | Yes       |
| 26                      | 9                | 1.0u            | 333.0u  | Yes       |
| 27                      | 9                | 1.0u            | 333.0u  | Yes       |
| 28                      | 9                | 1.0u            | 333.0u  | Yes       |
| 29                      | 9                | 1.0u            | 333.0u  | Yes       |
| 30                      | 9                | 1.0u            | 333.0u  | Yes       |
| Detection Rate: 100.0 % |                  |                 |         |           |



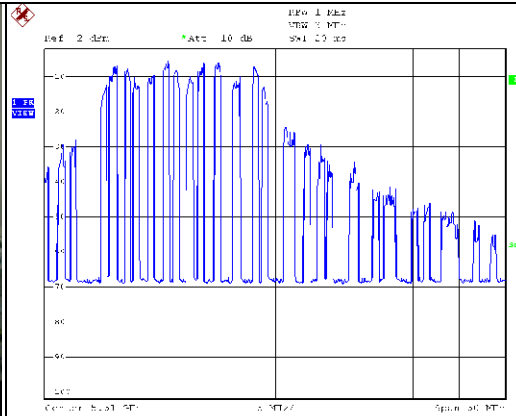
**A D T****802.11n HT40****Type 6 Radar Statistical Performances**

| Trial # | Hopping Frequency Sequence Name | Detection               |
|---------|---------------------------------|-------------------------|
| 1       | HOP_FREQ_SEQ_HT40_01            | Yes                     |
| 2       | HOP_FREQ_SEQ_HT40_02            | Yes                     |
| 3       | HOP_FREQ_SEQ_HT40_03            | Yes                     |
| 4       | HOP_FREQ_SEQ_HT40_04            | Yes                     |
| 5       | HOP_FREQ_SEQ_HT40_05            | Yes                     |
| 6       | HOP_FREQ_SEQ_HT40_06            | Yes                     |
| 7       | HOP_FREQ_SEQ_HT40_07            | Yes                     |
| 8       | HOP_FREQ_SEQ_HT40_08            | Yes                     |
| 9       | HOP_FREQ_SEQ_HT40_09            | Yes                     |
| 10      | HOP_FREQ_SEQ_HT40_10            | Yes                     |
| 11      | HOP_FREQ_SEQ_HT40_11            | Yes                     |
| 12      | HOP_FREQ_SEQ_HT40_12            | Yes                     |
| 13      | HOP_FREQ_SEQ_HT40_13            | Yes                     |
| 14      | HOP_FREQ_SEQ_HT40_14            | Yes                     |
| 15      | HOP_FREQ_SEQ_HT40_15            | Yes                     |
| 16      | HOP_FREQ_SEQ_HT40_16            | Yes                     |
| 17      | HOP_FREQ_SEQ_HT40_17            | Yes                     |
| 18      | HOP_FREQ_SEQ_HT40_18            | Yes                     |
| 19      | HOP_FREQ_SEQ_HT40_19            | Yes                     |
| 20      | HOP_FREQ_SEQ_HT40_20            | Yes                     |
| 21      | HOP_FREQ_SEQ_HT40_21            | Yes                     |
| 22      | HOP_FREQ_SEQ_HT40_22            | Yes                     |
| 23      | HOP_FREQ_SEQ_HT40_23            | Yes                     |
| 24      | HOP_FREQ_SEQ_HT40_24            | Yes                     |
| 25      | HOP_FREQ_SEQ_HT40_25            | Yes                     |
| 26      | HOP_FREQ_SEQ_HT40_26            | Yes                     |
| 27      | HOP_FREQ_SEQ_HT40_27            | Yes                     |
| 28      | HOP_FREQ_SEQ_HT40_28            | Yes                     |
| 29      | HOP_FREQ_SEQ_HT40_29            | Yes                     |
| 30      | HOP_FREQ_SEQ_HT40_30            | Yes                     |
|         |                                 | Detection Rate: 100.0 % |

The Frequency Hopping Radar pattern shown in Annex B.2

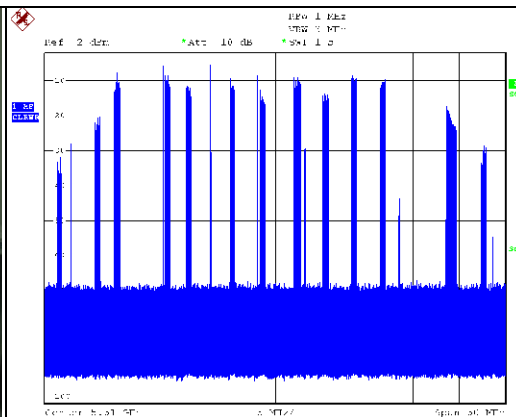
### 6.2.1.4 NON- OCCUPANCY PERIOD

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



EUT (master) links with Client on 5510MHz

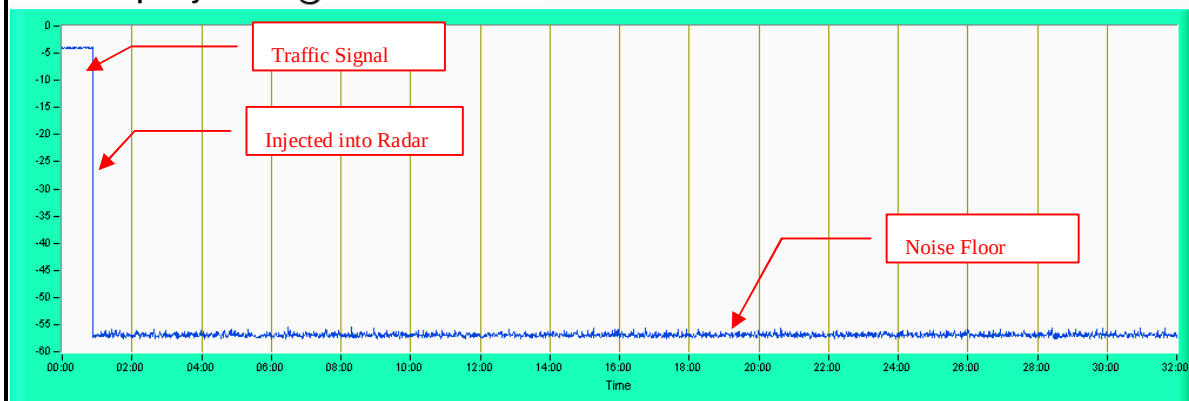
2) The master and DFS-certified client device are associated, and the movie can be streamed as specified in the DFS Order for a non-occupancy period test.



Client plays a specified files via master.

The screenshot displays the ADT Radar Test Signals Simulator V1.2. The main window features a 'Test Signals' table with columns for Test Signal, Pulse Width (μs), BW (MHz), PRF (Hz), Range, Azimuth, Azimuth Length, and Hopping Rate. The table lists several test signals, including '1 - Variable', '2 - Variable', '3 - Variable', '4 - Variable', 'Long Pulse Burst', 'Hopping Mode 1', 'B1 900 MHz ± 2.0', 'B1 900 MHz ± 2.1', 'B1 900 MHz ± 2.5 (Cont.)', and 'B1 900 MHz ± 5.0 (Cont.)'. The right sidebar shows a 'Buttons' section with a 'Stopped' status and a 'Single Seq' button. The bottom status bar indicates 'Ch14 100mW', 'M2 0s 400KHz', and 'A Pattern XXXX01 OR'.

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



### 6.2.1.5 UNIFORM SPREADING

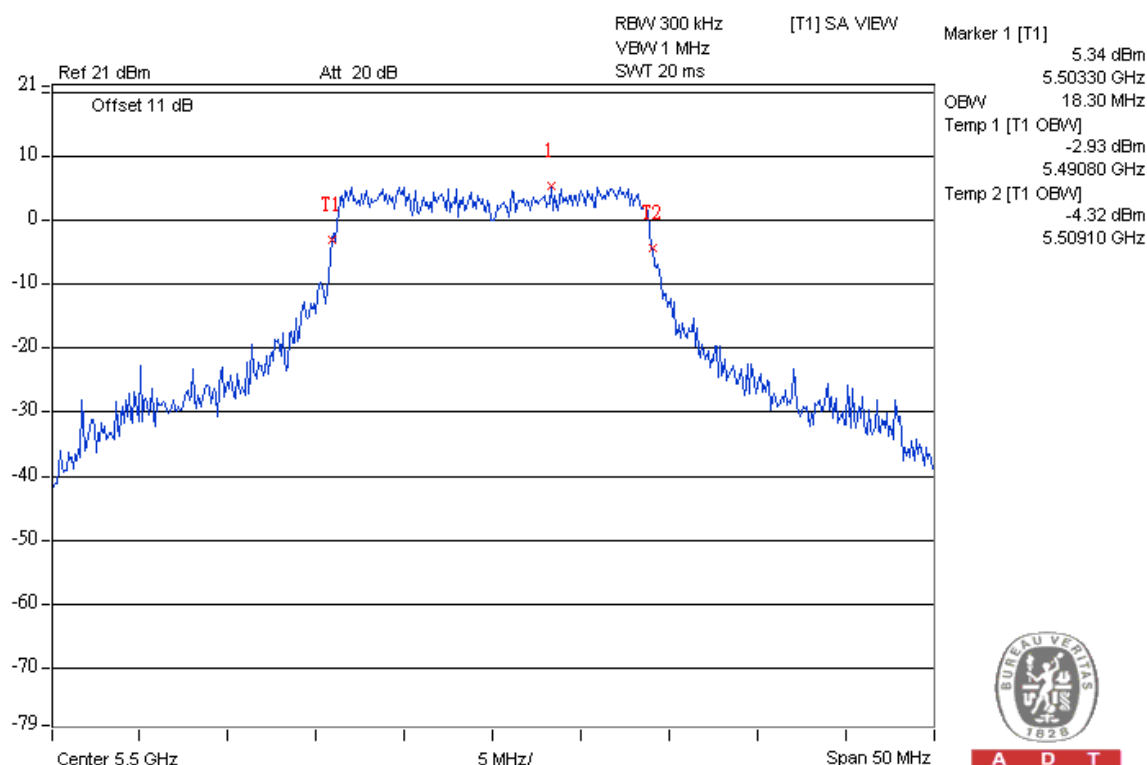
The manufacturer declare:

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5150 to 5350MHz and 5470 to 5850 MHz shall select an operating channel out of the 21 channels, so that the probability of selecting a given channel shall be the same for all channels.

The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

### 6.2.1.6 U-NII DETECTION BANDWIDTH

#### 802.11n HT20



U-NII 99% Channel bandwidth

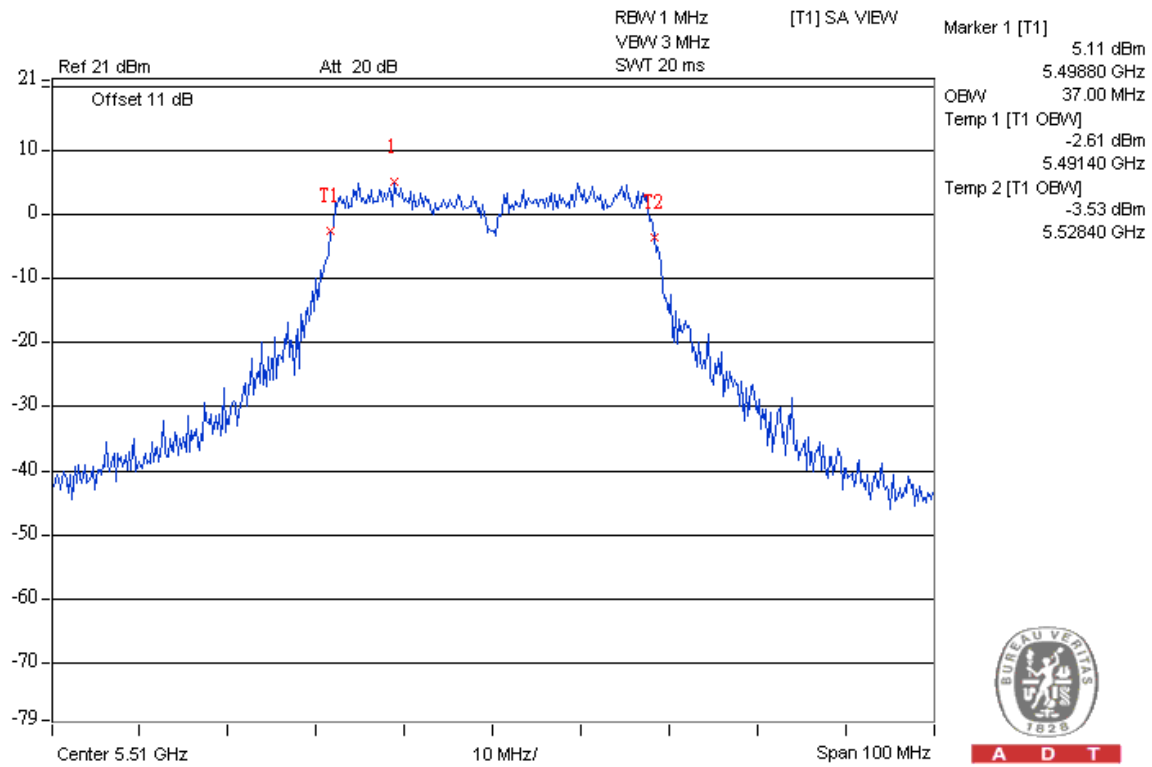
## 802.11n HT20

| Detection Bandwidth Test                                             |                          |     |     |     |     |     |     |     |     |     |                    |
|----------------------------------------------------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| EUT Frequency: 5.500GHz                                              |                          |     |     |     |     |     |     |     |     |     |                    |
| EUT 99% Power bandwidth: 18.30MHz                                    |                          |     |     |     |     |     |     |     |     |     |                    |
| Detection bandwidth limit (80% of EUT 99% Power bandwidth): 14.64MHz |                          |     |     |     |     |     |     |     |     |     |                    |
| Detection Bandwidth (FH - FL): 22.00MHz                              |                          |     |     |     |     |     |     |     |     |     |                    |
| Test Result : PASS                                                   |                          |     |     |     |     |     |     |     |     |     |                    |
| Radar Frequency (Hz)                                                 | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
|                                                                      | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5.488G                                                               | Yes                      | No  | No  | Yes | No  | No  | Yes | No  | No  | Yes | 40                 |
| 5.489G (FL)                                                          | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.490G                                                               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.491G                                                               | 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 (FH)                                                          | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.512G                                                               | No                       | Yes | No  | Yes | Yes | Yes | No  | No  | Yes | No  | 50                 |



A D T

## 802.11n HT40



A D T

**A D T****802.11n HT40**

| Detection Bandwidth Test                                             |                          |     |     |     |     |     |     |     |     |     |                    |
|----------------------------------------------------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| EUT Frequency: 5.510GHz                                              |                          |     |     |     |     |     |     |     |     |     |                    |
| EUT 99% Power bandwidth: 37.00MHz                                    |                          |     |     |     |     |     |     |     |     |     |                    |
| Detection bandwidth limit (80% of EUT 99% Power bandwidth): 29.60MHz |                          |     |     |     |     |     |     |     |     |     |                    |
| Detection Bandwidth (FH - FL): 42.00MHz                              |                          |     |     |     |     |     |     |     |     |     |                    |
| Test Result : PASS                                                   |                          |     |     |     |     |     |     |     |     |     |                    |
| Radar                                                                | Trial Number / Detection |     |     |     |     |     |     |     |     |     | Detection Rate (%) |
| Frequency (Hz)                                                       | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |                    |
| 5.488G                                                               | No                       | No  | No  | No  | No  | No  | No  | No  | No  | No  | 0                  |
| 5.489G (FL)                                                          | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.490G                                                               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.491G                                                               | 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                                                               | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.526G                                                               | Yes                      | Yes | Yes | Yes | Yes | Yes | No  | 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 (FH)                                                          | Yes                      | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | 100                |
| 5.532G                                                               | No                       | Yes | No  | No  | No  | No  | No  | No  | No  | No  | 10                 |

#### **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.

#### **6.2.1.8 TRANSMIT POWER CONTROL (TPC)**

Maximum EIRP of this device is 893.305mW which more than 500mW, therefore it's require TPC function.

The UUT can adjust a transmitter's output power based on the signal level present at the receiver.

TPC is controlled by software and the user may adjust the Transmit Power level from web interface that may adjust the transmit power among Max, -3dB, -6dB, from web manually when the power needs to be increased or decreased.

The interface is for WLAN purpose that is installed fixedly, so we implement manual TPC instead of automatic TPC on the product.





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## 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 Lab:**

Tel: 886-3-5935343

Fax: 886-3-5935342

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

Tel: 886-3-3183232

Fax: 886-3-3270892

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

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

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 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\_HT20\_Signal\_01

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 14M        | 51.9u           | 1.469m                   | -                        | 268.4m             |
| 2     | 2                | 8M         | 61.8u           | 1.795m                   | -                        | 283.4m             |
| 3     | 3                | 9M         | 65.5u           | 1.159m                   | 1.829m                   | 353.4m             |
| 4     | 2                | 7M         | 58.6u           | 1.198m                   | -                        | 579.5m             |
| 5     | 2                | 15M        | 54.2u           | 1.203m                   | -                        | 279.7m             |
| 6     | 2                | 13M        | 67.0u           | 1.714m                   | -                        | 376.8m             |
| 7     | 2                | 12M        | 96.4u           | 1.771m                   | -                        | 226.1m             |
| 8     | 1                | 8M         | 82.8u           | -                        | -                        | 560.2m             |
| 9     | 2                | 17M        | 51.0u           | 1.795m                   | -                        | 614.4m             |
| 10    | 2                | 5M         | 70.7u           | 1.041m                   | -                        | 450.6m             |
| 11    | 1                | 9M         | 76.8u           | -                        | -                        | 318.3m             |
| 12    | 3                | 7M         | 69.1u           | 1.790m                   | 1.275m                   | 388.0m             |
| 13    | 3                | 18M        | 55.1u           | 1.283m                   | 1.660m                   | 598.2m             |
| 14    | 2                | 20M        | 78.0u           | 1.361m                   | -                        | 55.53m             |
| 15    | 3                | 18M        | 98.6u           | 1.280m                   | 1.251m                   | 715.1m             |

##### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_02

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 13M        | 80.5u           | -                        | -                        | 320.2m             |
| 2     | 1                | 12M        | 54.9u           | -                        | -                        | 1.215              |
| 3     | 2                | 13M        | 54.6u           | 1.529m                   | -                        | 227.0m             |
| 4     | 3                | 12M        | 66.4u           | 1.267m                   | 1.571m                   | 395.3m             |
| 5     | 2                | 17M        | 63.1u           | 1.761m                   | -                        | 777.7m             |
| 6     | 3                | 14M        | 76.1u           | 1.729m                   | 1.781m                   | 570.2m             |
| 7     | 2                | 16M        | 99.9u           | 1.476m                   | -                        | 1.206              |
| 8     | 1                | 18M        | 82.5u           | -                        | -                        | 1.072              |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_03

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 16M        | 78.3u           | 1.433m                   | 1.341m                   | 417.6m             |
| 2     | 2                | 10M        | 94.1u           | 1.844m                   | -                        | 438.9m             |
| 3     | 1                | 18M        | 70.1u           | -                        | -                        | 507.3m             |
| 4     | 1                | 10M        | 69.0u           | -                        | -                        | 458.0m             |
| 5     | 2                | 10M        | 79.5u           | 1.065m                   | -                        | 505.8m             |
| 6     | 3                | 6M         | 79.5u           | 1.499m                   | 1.837m                   | 449.1m             |
| 7     | 3                | 18M        | 65.5u           | 1.914m                   | 1.491m                   | 14.47m             |
| 8     | 1                | 17M        | 92.3u           | -                        | -                        | 112.6m             |
| 9     | 2                | 13M        | 90.1u           | 1.225m                   | -                        | 632.4m             |
| 10    | 3                | 8M         | 91.8u           | 1.873m                   | 1.446m                   | 21.44m             |
| 11    | 2                | 10M        | 78.1u           | 1.780m                   | -                        | 234.9m             |
| 12    | 1                | 14M        | 92.5u           | -                        | -                        | 137.6m             |
| 13    | 3                | 14M        | 55.5u           | 1.318m                   | 1.643m                   | 459.5m             |
| 14    | 1                | 9M         | 77.3u           | -                        | -                        | 309.2m             |
| 15    | 3                | 14M        | 65.9u           | 1.605m                   | 969.1u                   | 246.6m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_04

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 9M         | 58.1u           | 1.241m                   | 1.184m                   | 960.6m             |
| 2     | 1                | 18M        | 77.8u           | -                        | -                        | 209.8m             |
| 3     | 3                | 16M        | 61.1u           | 1.246m                   | 1.167m                   | 794.3m             |
| 4     | 1                | 12M        | 81.3u           | -                        | -                        | 649.6m             |
| 5     | 2                | 18M        | 82.4u           | 1.805m                   | -                        | 1.166              |
| 6     | 2                | 15M        | 82.2u           | 1.088m                   | -                        | 427.1m             |
| 7     | 2                | 13M        | 58.7u           | 1.377m                   | -                        | 355.1m             |
| 8     | 3                | 5M         | 75.0u           | 1.664m                   | 1.296m                   | 1.050              |
| 9     | 3                | 6M         | 98.1u           | 1.459m                   | 1.816m                   | 847.2m             |
| 10    | 1                | 14M        | 75.0u           | -                        | -                        | 340.9m             |



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# Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_05

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 8M         | 86.4u           | 941.6u                   | -                        | 621.8m             |
| 2     | 1                | 13M        | 71.7u           | -                        | -                        | 309.3m             |
| 3     | 2                | 7M         | 57.2u           | 1.616m                   | -                        | 278.4m             |
| 4     | 2                | 12M        | 94.9u           | 925.1u                   | -                        | 593.5m             |
| 5     | 2                | 13M        | 65.3u           | 973.7u                   | -                        | 490.1m             |
| 6     | 3                | 9M         | 84.9u           | 1.533m                   | 1.174m                   | 512.6m             |
| 7     | 2                | 9M         | 56.0u           | 1.883m                   | -                        | 447.1m             |
| 8     | 1                | 18M        | 73.0u           | -                        | -                        | 121.2m             |
| 9     | 2                | 14M        | 77.5u           | 1.714m                   | -                        | 115.6m             |
| 10    | 1                | 11M        | 81.7u           | -                        | -                        | 516.7m             |
| 11    | 3                | 19M        | 75.4u           | 959.6u                   | 1.146m                   | 142.6m             |
| 12    | 2                | 11M        | 71.2u           | 1.552m                   | -                        | 178.8m             |
| 13    | 1                | 9M         | 96.6u           | -                        | -                        | 255.6m             |
| 14    | 3                | 19M        | 89.6u           | 1.430m                   | 1.898m                   | 408.5m             |
| 15    | 2                | 20M        | 95.6u           | 1.302m                   | -                        | 436.0m             |
| 16    | 2                | 11M        | 64.3u           | 1.195m                   | -                        | 58.88m             |
| 17    | 3                | 12M        | 77.1u           | 1.288m                   | 1.192m                   | 138.3m             |



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### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_06

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 9M         | 51.2u           | 1.941m                   | -                        | 203.6m             |
| 2     | 1                | 10M        | 57.0u           | -                        | -                        | 534.2m             |
| 3     | 2                | 12M        | 63.4u           | 1.378m                   | -                        | 456.0m             |
| 4     | 3                | 15M        | 57.0u           | 1.443m                   | 1.612m                   | 33.74m             |
| 5     | 2                | 19M        | 74.1u           | 1.304m                   | -                        | 2.045m             |
| 6     | 3                | 7M         | 73.3u           | 1.631m                   | 1.224m                   | 553.0m             |
| 7     | 1                | 13M        | 83.6u           | -                        | -                        | 700.6m             |
| 8     | 2                | 11M        | 78.5u           | 1.707m                   | -                        | 202.3m             |
| 9     | 3                | 18M        | 94.8u           | 1.389m                   | 1.780m                   | 699.6m             |
| 10    | 2                | 12M        | 80.1u           | 1.510m                   | -                        | 694.8m             |
| 11    | 1                | 12M        | 88.1u           | -                        | -                        | 249.5m             |
| 12    | 1                | 12M        | 63.7u           | -                        | -                        | 463.4m             |
| 13    | 3                | 10M        | 85.8u           | 1.748m                   | 1.409m                   | 644.1m             |
| 14    | 3                | 6M         | 85.4u           | 928.6u                   | 1.700m                   | 147.0m             |
| 15    | 1                | 19M        | 86.9u           | -                        | -                        | 586.7m             |
| 16    | 3                | 9M         | 68.0u           | 1.659m                   | 1.527m                   | 22.16m             |
| 17    | 2                | 17M        | 55.1u           | 1.067m                   | -                        | 687.1m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_07

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 5M         | 94.7u           | -                        | -                        | 266.7m             |
| 2     | 2                | 14M        | 88.0u           | 1.710m                   | -                        | 427.9m             |
| 3     | 3                | 15M        | 81.0u           | 926.0u                   | 1.529m                   | 541.6m             |
| 4     | 1                | 16M        | 56.9u           | -                        | -                        | 657.7m             |
| 5     | 1                | 11M        | 75.6u           | -                        | -                        | 148.9m             |
| 6     | 3                | 12M        | 68.1u           | 1.735m                   | 1.092m                   | 147.0m             |
| 7     | 1                | 13M        | 60.4u           | -                        | -                        | 351.0m             |
| 8     | 1                | 14M        | 95.6u           | -                        | -                        | 201.2m             |
| 9     | 2                | 19M        | 95.9u           | 1.433m                   | -                        | 799.5m             |
| 10    | 2                | 20M        | 64.0u           | 1.696m                   | -                        | 11.74m             |
| 11    | 2                | 12M        | 60.3u           | 1.243m                   | -                        | 376.5m             |
| 12    | 3                | 17M        | 98.4u           | 1.347m                   | 1.660m                   | 884.3m             |
| 13    | 2                | 19M        | 73.0u           | 1.513m                   | -                        | 256.7m             |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_08

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 15M        | 71.3u           | -                        | -                        | 78.68m             |
| 2     | 3                | 9M         | 64.2u           | 1.201m                   | 1.782m                   | 119.9m             |
| 3     | 1                | 6M         | 88.3u           | -                        | -                        | 1.315              |
| 4     | 3                | 19M        | 56.0u           | 1.934m                   | 1.403m                   | 126.5m             |
| 5     | 1                | 7M         | 74.2u           | -                        | -                        | 440.3m             |
| 6     | 2                | 16M        | 85.0u           | 1.335m                   | -                        | 446.7m             |
| 7     | 2                | 18M        | 99.1u           | 1.335m                   | -                        | 905.3m             |
| 8     | 2                | 18M        | 81.5u           | 1.584m                   | -                        | 719.0m             |
| 9     | 2                | 13M        | 75.4u           | 1.203m                   | -                        | 98.62m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_09

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 7M         | 66.8u           | -                        | -                        | 416.0m             |
| 2     | 3                | 11M        | 62.4u           | 1.304m                   | 1.586m                   | 664.6m             |
| 3     | 2                | 9M         | 73.7u           | 1.109m                   | -                        | 842.9m             |
| 4     | 2                | 14M        | 85.1u           | 941.9u                   | -                        | 538.1m             |
| 5     | 1                | 11M        | 77.3u           | -                        | -                        | 964.1m             |
| 6     | 2                | 20M        | 98.7u           | 1.659m                   | -                        | 472.4m             |
| 7     | 2                | 7M         | 57.6u           | 1.482m                   | -                        | 364.5m             |
| 8     | 1                | 10M        | 63.5u           | -                        | -                        | 408.4m             |
| 9     | 2                | 9M         | 70.9u           | 1.207m                   | -                        | 993.9m             |
| 10    | 2                | 19M        | 89.9u           | 1.412m                   | -                        | 148.0m             |
| 11    | 1                | 11M        | 95.6u           | -                        | -                        | 238.1m             |
| 12    | 2                | 10M        | 92.3u           | 1.905m                   | -                        | 550.0m             |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_10

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 8M         | 96.1u           | 943.9u                   | -                        | 255.5m             |
| 2     | 2                | 14M        | 78.2u           | 1.277m                   | -                        | 364.2m             |
| 3     | 2                | 11M        | 53.7u           | 993.3u                   | -                        | 289.8m             |
| 4     | 3                | 7M         | 80.9u           | 1.335m                   | 1.257m                   | 721.1m             |
| 5     | 1                | 9M         | 67.7u           | -                        | -                        | 488.3m             |
| 6     | 2                | 18M        | 89.7u           | 1.569m                   | -                        | 352.5m             |
| 7     | 2                | 17M        | 76.6u           | 1.425m                   | -                        | 154.8m             |
| 8     | 3                | 10M        | 62.0u           | 1.735m                   | 1.646m                   | 250.4m             |
| 9     | 1                | 8M         | 66.7u           | -                        | -                        | 696.6m             |
| 10    | 3                | 16M        | 75.3u           | 1.372m                   | 1.149m                   | 863.0m             |
| 11    | 3                | 18M        | 92.3u           | 1.268m                   | 1.725m                   | 690.6m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_11

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 8M         | 95.4u           | 1.774m                   | -                        | 231.1m             |
| 2     | 2                | 19M        | 52.3u           | 1.640m                   | -                        | 495.9m             |
| 3     | 1                | 20M        | 98.8u           | -                        | -                        | 478.7m             |
| 4     | 2                | 9M         | 88.5u           | 1.469m                   | -                        | 504.4m             |
| 5     | 1                | 10M        | 69.9u           | -                        | -                        | 87.71m             |
| 6     | 3                | 9M         | 88.7u           | 1.724m                   | 1.244m                   | 618.2m             |
| 7     | 3                | 20M        | 98.7u           | 1.501m                   | 1.861m                   | 407.5m             |
| 8     | 2                | 16M        | 54.4u           | 1.390m                   | -                        | 608.2m             |
| 9     | 1                | 14M        | 98.7u           | -                        | -                        | 103.3m             |
| 10    | 2                | 6M         | 51.9u           | 1.857m                   | -                        | 94.43m             |
| 11    | 2                | 10M        | 50.0u           | 1.140m                   | -                        | 72.45m             |
| 12    | 2                | 8M         | 61.7u           | 1.223m                   | -                        | 52.89m             |
| 13    | 2                | 18M        | 76.4u           | 1.012m                   | -                        | 63.22m             |
| 14    | 3                | 13M        | 85.5u           | 1.311m                   | 1.198m                   | 92.24m             |
| 15    | 1                | 8M         | 75.7u           | -                        | -                        | 344.7m             |
| 16    | 2                | 9M         | 78.3u           | 1.249m                   | -                        | 372.0m             |
| 17    | 2                | 6M         | 83.9u           | 1.513m                   | -                        | 51.40m             |
| 18    | 2                | 12M        | 63.0u           | 1.742m                   | -                        | 23.00m             |
| 19    | 2                | 15M        | 72.3u           | 1.475m                   | -                        | 528.7m             |





A D T

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_12

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 5M         | 64.2u           | 1.784m                   | 1.291m                   | 572.7m             |
| 2     | 3                | 15M        | 99.2u           | 1.409m                   | 952.8u                   | 853.0m             |
| 3     | 2                | 15M        | 97.5u           | 952.5u                   | -                        | 138.3m             |
| 4     | 1                | 16M        | 90.7u           | -                        | -                        | 117.4m             |
| 5     | 2                | 8M         | 53.2u           | 1.234m                   | -                        | 47.49m             |
| 6     | 1                | 15M        | 94.1u           | -                        | -                        | 276.2m             |
| 7     | 2                | 13M        | 73.0u           | 1.115m                   | -                        | 399.7m             |
| 8     | 3                | 19M        | 80.4u           | 1.377m                   | 1.384m                   | 604.9m             |
| 9     | 3                | 7M         | 65.7u           | 1.382m                   | 1.305m                   | 459.1m             |
| 10    | 2                | 7M         | 84.1u           | 1.733m                   | -                        | 735.7m             |
| 11    | 3                | 8M         | 99.2u           | 1.631m                   | 1.390m                   | 353.0m             |
| 12    | 2                | 8M         | 98.1u           | 1.733m                   | -                        | 449.4m             |
| 13    | 2                | 11M        | 68.1u           | 1.702m                   | -                        | 158.7m             |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_13

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 8M         | 52.4u           | 1.039m                   | -                        | 696.0m             |
| 2     | 2                | 19M        | 77.4u           | 1.657m                   | -                        | 1.045              |
| 3     | 2                | 11M        | 97.8u           | 1.354m                   | -                        | 978.7m             |
| 4     | 3                | 16M        | 89.0u           | 947.0u                   | 1.715m                   | 556.6m             |
| 5     | 3                | 12M        | 59.3u           | 1.202m                   | 1.408m                   | 778.8m             |
| 6     | 1                | 11M        | 95.9u           | -                        | -                        | 430.9m             |
| 7     | 3                | 13M        | 55.4u           | 1.161m                   | 1.581m                   | 1.245              |
| 8     | 2                | 16M        | 65.7u           | 1.678m                   | -                        | 105.9m             |



A D T

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_14

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 9M         | 56.2u           | 1.871m                   | 1.674m                   | 334.6m             |
| 2     | 1                | 11M        | 84.0u           | -                        | -                        | 165.7m             |
| 3     | 2                | 9M         | 61.3u           | 1.381m                   | -                        | 146.6m             |
| 4     | 1                | 9M         | 58.2u           | -                        | -                        | 250.1m             |
| 5     | 2                | 7M         | 53.0u           | 1.123m                   | -                        | 574.6m             |
| 6     | 3                | 18M        | 78.2u           | 987.8u                   | 947.8u                   | 465.7m             |
| 7     | 1                | 8M         | 69.5u           | -                        | -                        | 364.4m             |
| 8     | 3                | 13M        | 91.5u           | 1.110m                   | 1.380m                   | 247.2m             |
| 9     | 3                | 14M        | 97.7u           | 1.654m                   | 991.3u                   | 110.0m             |
| 10    | 3                | 5M         | 88.7u           | 1.277m                   | 1.869m                   | 209.9m             |
| 11    | 3                | 12M        | 57.3u           | 1.407m                   | 1.401m                   | 233.2m             |
| 12    | 2                | 17M        | 96.8u           | 1.025m                   | -                        | 101.3m             |
| 13    | 2                | 16M        | 79.9u           | 1.284m                   | -                        | 204.8m             |
| 14    | 3                | 19M        | 99.4u           | 1.573m                   | 1.427m                   | 232.1m             |
| 15    | 2                | 19M        | 86.0u           | 1.328m                   | -                        | 292.1m             |
| 16    | 3                | 5M         | 55.2u           | 1.668m                   | 1.141m                   | 593.6m             |
| 17    | 2                | 14M        | 59.5u           | 1.360m                   | -                        | 204.7m             |
| 18    | 2                | 12M        | 66.2u           | 1.844m                   | -                        | 78.96m             |
| 19    | 2                | 18M        | 98.4u           | 1.137m                   | -                        | 500.8m             |



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### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_15

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 13M        | 50.0u           | 1.071m                   | 1.214m                   | 534.3m             |
| 2     | 3                | 15M        | 53.4u           | 1.245m                   | 1.264m                   | 391.2m             |
| 3     | 1                | 10M        | 53.0u           | -                        | -                        | 683.0m             |
| 4     | 1                | 8M         | 79.5u           | -                        | -                        | 183.8m             |
| 5     | 2                | 9M         | 94.3u           | 1.081m                   | -                        | 100.0m             |
| 6     | 1                | 10M        | 72.9u           | -                        | -                        | 350.4m             |
| 7     | 2                | 18M        | 98.5u           | 1.087m                   | -                        | 104.3m             |
| 8     | 3                | 13M        | 87.7u           | 1.508m                   | 1.789m                   | 183.2m             |
| 9     | 2                | 19M        | 75.5u           | 1.829m                   | -                        | 295.3m             |
| 10    | 2                | 19M        | 69.2u           | 1.734m                   | -                        | 675.4m             |
| 11    | 3                | 8M         | 93.3u           | 1.336m                   | 1.052m                   | 354.6m             |
| 12    | 2                | 13M        | 82.0u           | 1.501m                   | -                        | 496.0m             |
| 13    | 1                | 8M         | 66.5u           | -                        | -                        | 557.5m             |
| 14    | 1                | 6M         | 58.8u           | -                        | -                        | 166.2m             |
| 15    | 2                | 20M        | 67.7u           | 1.465m                   | -                        | 658.5m             |
| 16    | 3                | 5M         | 76.9u           | 1.072m                   | 1.167m                   | 223.0m             |
| 17    | 2                | 6M         | 68.7u           | 1.143m                   | -                        | 249.9m             |

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP\_HT20\_Signal\_16

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 6M         | 72.3u           | 1.160m                   | -                        | 74.77m             |
| 2     | 1                | 19M        | 65.2u           | -                        | -                        | 249.1m             |
| 3     | 3                | 15M        | 98.8u           | 1.416m                   | 1.101m                   | 17.71m             |
| 4     | 1                | 17M        | 71.4u           | -                        | -                        | 503.3m             |
| 5     | 3                | 18M        | 78.6u           | 1.074m                   | 1.606m                   | 674.3m             |
| 6     | 2                | 13M        | 68.2u           | 1.010m                   | -                        | 98.98m             |
| 7     | 2                | 19M        | 85.5u           | 1.749m                   | -                        | 684.0m             |
| 8     | 2                | 17M        | 96.7u           | 1.029m                   | -                        | 533.9m             |
| 9     | 3                | 11M        | 59.3u           | 1.081m                   | 1.560m                   | 511.3m             |
| 10    | 3                | 18M        | 82.1u           | 1.769m                   | 1.197m                   | 394.3m             |
| 11    | 3                | 10M        | 91.0u           | 1.185m                   | 1.127m                   | 61.21m             |
| 12    | 2                | 9M         | 98.0u           | 1.163m                   | -                        | 185.8m             |
| 13    | 2                | 18M        | 84.7u           | 1.606m                   | -                        | 294.8m             |
| 14    | 2                | 6M         | 78.4u           | 1.513m                   | -                        | 652.8m             |
| 15    | 3                | 18M        | 92.7u           | 1.611m                   | 963.3u                   | 533.0m             |
| 16    | 1                | 11M        | 87.9u           | -                        | -                        | 606.7m             |

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_HT20\_Signal\_17

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 12M        | 59.4u           | -                        | -                        | 502.3m             |
| 2     | 2                | 17M        | 75.2u           | 1.083m                   | -                        | 899.8m             |
| 3     | 2                | 7M         | 68.3u           | 1.857m                   | -                        | 975.4m             |
| 4     | 1                | 11M        | 98.5u           | -                        | -                        | 963.3m             |
| 5     | 2                | 13M        | 93.3u           | 1.568m                   | -                        | 447.9m             |
| 6     | 2                | 19M        | 82.2u           | 1.199m                   | -                        | 590.7m             |
| 7     | 1                | 18M        | 65.3u           | -                        | -                        | 1.028              |
| 8     | 2                | 9M         | 59.4u           | 1.334m                   | -                        | 641.0m             |
| 9     | 2                | 13M        | 67.5u           | 1.812m                   | -                        | 500.9m             |
| 10    | 3                | 17M        | 71.4u           | 1.629m                   | 1.027m                   | 127.9m             |
| 11    | 2                | 18M        | 83.8u           | 1.487m                   | -                        | 536.7m             |



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## Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_18

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 6M         | 66.1u           | 1.528m                   | 1.373m                   | 681.5m             |
| 2     | 1                | 12M        | 81.2u           | -                        | -                        | 831.9m             |
| 3     | 2                | 16M        | 78.0u           | 1.814m                   | -                        | 141.7m             |
| 4     | 1                | 8M         | 87.5u           | -                        | -                        | 1.093              |
| 5     | 2                | 7M         | 69.1u           | 1.600m                   | -                        | 646.8m             |
| 6     | 3                | 17M        | 50.9u           | 1.048m                   | 1.004m                   | 1.264              |
| 7     | 2                | 16M        | 82.7u           | 1.884m                   | -                        | 272.5m             |
| 8     | 2                | 9M         | 68.2u           | 1.304m                   | -                        | 924.3m             |
| 9     | 1                | 9M         | 86.5u           | -                        | -                        | 1.244              |

## Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_19

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 11M        | 81.2u           | 931.8u                   | -                        | 3.965m             |
| 2     | 2                | 15M        | 85.3u           | 1.699m                   | -                        | 250.7m             |
| 3     | 2                | 13M        | 92.7u           | 1.532m                   | -                        | 77.91m             |
| 4     | 2                | 6M         | 92.9u           | 1.259m                   | -                        | 533.1m             |
| 5     | 1                | 9M         | 88.3u           | -                        | -                        | 47.30m             |
| 6     | 2                | 7M         | 50.8u           | 1.170m                   | -                        | 453.4m             |
| 7     | 3                | 19M        | 81.1u           | 1.873m                   | 1.865m                   | 511.2m             |
| 8     | 3                | 7M         | 78.5u           | 1.867m                   | 1.143m                   | 295.6m             |
| 9     | 2                | 7M         | 79.5u           | 1.664m                   | -                        | 81.11m             |
| 10    | 2                | 10M        | 59.3u           | 1.021m                   | -                        | 575.7m             |
| 11    | 1                | 15M        | 56.0u           | -                        | -                        | 667.1m             |
| 12    | 2                | 6M         | 70.6u           | 1.311m                   | -                        | 448.3m             |
| 13    | 2                | 16M        | 65.2u           | 1.010m                   | -                        | 263.1m             |
| 14    | 2                | 6M         | 67.5u           | 1.304m                   | -                        | 278.1m             |
| 15    | 3                | 6M         | 57.5u           | 1.513m                   | 1.822m                   | 131.0m             |
| 16    | 2                | 15M        | 76.5u           | 1.902m                   | -                        | 468.3m             |
| 17    | 1                | 7M         | 74.8u           | -                        | -                        | 436.2m             |



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### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_20

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 17M        | 78.7u           | 1.160m                   | -                        | 310.1m             |
| 2     | 2                | 19M        | 88.1u           | 1.793m                   | -                        | 543.3m             |
| 3     | 3                | 16M        | 70.6u           | 1.032m                   | 1.586m                   | 151.6m             |
| 4     | 1                | 7M         | 80.8u           | -                        | -                        | 33.13m             |
| 5     | 2                | 20M        | 68.2u           | 1.911m                   | -                        | 261.1m             |
| 6     | 3                | 8M         | 75.9u           | 1.098m                   | 1.620m                   | 593.8m             |
| 7     | 2                | 16M        | 80.8u           | 963.2u                   | -                        | 30.05m             |
| 8     | 2                | 14M        | 62.5u           | 1.638m                   | -                        | 617.6m             |
| 9     | 2                | 16M        | 83.8u           | 1.003m                   | -                        | 473.5m             |
| 10    | 1                | 10M        | 92.0u           | -                        | -                        | 466.1m             |
| 11    | 1                | 6M         | 80.5u           | -                        | -                        | 108.4m             |
| 12    | 2                | 13M        | 96.0u           | 1.495m                   | -                        | 454.2m             |
| 13    | 1                | 9M         | 80.5u           | -                        | -                        | 91.80m             |
| 14    | 2                | 15M        | 93.0u           | 1.461m                   | -                        | 556.6m             |
| 15    | 2                | 20M        | 81.9u           | 1.855m                   | -                        | 59.29m             |
| 16    | 1                | 7M         | 93.4u           | -                        | -                        | 38.78m             |
| 17    | 3                | 10M        | 85.2u           | 1.470m                   | 1.502m                   | 500.4m             |
| 18    | 2                | 12M        | 68.9u           | 1.439m                   | -                        | 23.59m             |
| 19    | 2                | 15M        | 96.3u           | 997.7u                   | -                        | 28.69m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_21

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 6M         | 89.1u           | 1.778m                   | 1.055m                   | 1.188              |
| 2     | 2                | 6M         | 76.4u           | 1.366m                   | -                        | 73.27m             |
| 3     | 2                | 5M         | 79.1u           | 1.603m                   | -                        | 1.007              |
| 4     | 2                | 18M        | 56.5u           | 1.236m                   | -                        | 651.1m             |
| 5     | 1                | 6M         | 85.6u           | -                        | -                        | 256.3m             |
| 6     | 3                | 13M        | 52.3u           | 1.537m                   | 1.387m                   | 237.4m             |
| 7     | 2                | 10M        | 78.1u           | 947.9u                   | -                        | 187.4m             |
| 8     | 1                | 17M        | 55.0u           | -                        | -                        | 475.7m             |
| 9     | 2                | 13M        | 74.6u           | 1.233m                   | -                        | 693.8m             |



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### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_22

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 12M        | 61.8u           | 1.787m                   | 1.381m                   | 574.9m             |
| 2     | 2                | 17M        | 89.6u           | 1.083m                   | -                        | 581.0m             |
| 3     | 3                | 15M        | 97.3u           | 954.7u                   | 1.524m                   | 108.7m             |
| 4     | 2                | 18M        | 50.6u           | 1.758m                   | -                        | 543.0m             |
| 5     | 2                | 12M        | 68.7u           | 1.239m                   | -                        | 333.7m             |
| 6     | 2                | 19M        | 95.6u           | 1.195m                   | -                        | 131.7m             |
| 7     | 1                | 12M        | 66.3u           | -                        | -                        | 444.7m             |
| 8     | 1                | 19M        | 89.4u           | -                        | -                        | 139.3m             |
| 9     | 1                | 10M        | 50.2u           | -                        | -                        | 238.4m             |
| 10    | 2                | 18M        | 96.1u           | 1.826m                   | -                        | 238.8m             |
| 11    | 1                | 19M        | 56.7u           | -                        | -                        | 215.9m             |
| 12    | 1                | 10M        | 81.7u           | -                        | -                        | 477.5m             |
| 13    | 1                | 9M         | 70.1u           | -                        | -                        | 123.7m             |
| 14    | 3                | 11M        | 64.7u           | 1.865m                   | 1.348m                   | 305.0m             |
| 15    | 1                | 16M        | 98.6u           | -                        | -                        | 305.5m             |
| 16    | 2                | 17M        | 87.9u           | 1.352m                   | -                        | 366.3m             |
| 17    | 1                | 11M        | 52.3u           | -                        | -                        | 253.1m             |
| 18    | 3                | 17M        | 96.4u           | 1.465m                   | 1.784m                   | 303.3m             |
| 19    | 3                | 16M        | 77.3u           | 1.680m                   | 1.295m                   | 33.90m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_23

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 12M        | 78.1u           | 1.176m                   | 1.242m                   | 528.5m             |
| 2     | 2                | 9M         | 79.4u           | 1.529m                   | -                        | 394.6m             |
| 3     | 2                | 15M        | 77.2u           | 1.539m                   | -                        | 659.4m             |
| 4     | 2                | 8M         | 61.8u           | 1.843m                   | -                        | 468.8m             |
| 5     | 2                | 18M        | 86.1u           | 1.694m                   | -                        | 153.6m             |
| 6     | 2                | 6M         | 92.5u           | 1.476m                   | -                        | 847.8m             |
| 7     | 2                | 17M        | 60.4u           | 1.936m                   | -                        | 336.3m             |
| 8     | 1                | 9M         | 90.8u           | -                        | -                        | 619.3m             |
| 9     | 2                | 18M        | 68.0u           | 1.004m                   | -                        | 152.4m             |
| 10    | 2                | 9M         | 68.8u           | 1.722m                   | -                        | 883.9m             |
| 11    | 3                | 18M        | 76.7u           | 1.583m                   | 1.383m                   | 697.2m             |
| 12    | 2                | 6M         | 65.6u           | 978.4u                   | -                        | 324.4m             |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_24

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 7M         | 85.3u           | -                        | -                        | 165.7m             |
| 2     | 1                | 11M        | 93.2u           | -                        | -                        | 407.0m             |
| 3     | 3                | 8M         | 92.2u           | 1.624m                   | 1.640m                   | 158.0m             |
| 4     | 2                | 12M        | 85.2u           | 1.429m                   | -                        | 804.4m             |
| 5     | 2                | 7M         | 69.8u           | 1.483m                   | -                        | 230.9m             |
| 6     | 2                | 12M        | 70.8u           | 1.246m                   | -                        | 635.5m             |
| 7     | 2                | 13M        | 52.5u           | 1.448m                   | -                        | 179.0m             |
| 8     | 2                | 16M        | 94.2u           | 1.224m                   | -                        | 770.6m             |
| 9     | 2                | 6M         | 95.5u           | 1.792m                   | -                        | 836.6m             |
| 10    | 3                | 8M         | 71.5u           | 1.852m                   | 961.5u                   | 336.4m             |
| 11    | 3                | 17M        | 68.2u           | 1.031m                   | 1.741m                   | 431.0m             |
| 12    | 2                | 20M        | 98.9u           | 1.744m                   | -                        | 148.3m             |
| 13    | 3                | 8M         | 66.0u           | 1.717m                   | 992.0u                   | 322.1m             |
| 14    | 1                | 6M         | 83.9u           | -                        | -                        | 338.3m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_25

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 9M         | 64.2u           | 1.245m                   | -                        | 100.8m             |
| 2     | 3                | 9M         | 71.3u           | 1.046m                   | 1.101m                   | 779.2m             |
| 3     | 3                | 6M         | 50.8u           | 1.237m                   | 1.000m                   | 564.1m             |
| 4     | 1                | 8M         | 70.6u           | -                        | -                        | 136.2m             |
| 5     | 3                | 16M        | 98.7u           | 1.706m                   | 1.613m                   | 483.9m             |
| 6     | 1                | 14M        | 77.3u           | -                        | -                        | 325.5m             |
| 7     | 1                | 11M        | 93.1u           | -                        | -                        | 1.883m             |
| 8     | 1                | 10M        | 52.4u           | -                        | -                        | 363.8m             |
| 9     | 2                | 6M         | 85.6u           | 1.500m                   | -                        | 479.8m             |
| 10    | 3                | 5M         | 67.7u           | 1.746m                   | 1.316m                   | 302.5m             |
| 11    | 2                | 15M        | 95.8u           | 1.348m                   | -                        | 393.1m             |
| 12    | 3                | 12M        | 57.4u           | 993.6u                   | 1.862m                   | 872.9m             |
| 13    | 2                | 5M         | 87.9u           | 1.873m                   | -                        | 554.9m             |





A D T

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_26

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 18M        | 73.2u           | 1.700m                   | 1.696m                   | 82.58m             |
| 2     | 2                | 16M        | 74.3u           | 1.744m                   | -                        | 98.52m             |
| 3     | 2                | 13M        | 87.5u           | 1.707m                   | -                        | 282.6m             |
| 4     | 1                | 10M        | 90.1u           | -                        | -                        | 495.3m             |
| 5     | 2                | 10M        | 88.0u           | 1.177m                   | -                        | 40.54m             |
| 6     | 1                | 13M        | 67.6u           | -                        | -                        | 421.3m             |
| 7     | 2                | 19M        | 93.0u           | 1.367m                   | -                        | 783.1m             |
| 8     | 3                | 10M        | 66.3u           | 1.775m                   | 1.335m                   | 132.2m             |
| 9     | 2                | 14M        | 57.9u           | 1.641m                   | -                        | 782.4m             |
| 10    | 1                | 12M        | 56.4u           | -                        | -                        | 416.8m             |
| 11    | 2                | 13M        | 71.7u           | 1.300m                   | -                        | 626.5m             |
| 12    | 2                | 15M        | 95.0u           | 1.573m                   | -                        | 40.39m             |
| 13    | 1                | 7M         | 51.7u           | -                        | -                        | 444.6m             |
| 14    | 3                | 14M        | 57.5u           | 1.712m                   | 1.064m                   | 436.0m             |
| 15    | 3                | 10M        | 52.5u           | 1.002m                   | 1.440m                   | 617.1m             |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_27

Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 17M        | 54.7u           | 1.156m                   | -                        | 414.0m             |
| 2     | 2                | 16M        | 78.7u           | 969.3u                   | -                        | 56.56m             |
| 3     | 2                | 14M        | 86.9u           | 983.1u                   | -                        | 52.82m             |
| 4     | 2                | 18M        | 75.9u           | 1.784m                   | -                        | 230.1m             |
| 5     | 1                | 7M         | 72.8u           | -                        | -                        | 148.9m             |
| 6     | 3                | 18M        | 64.4u           | 1.089m                   | 1.023m                   | 335.7m             |
| 7     | 1                | 17M        | 56.6u           | -                        | -                        | 258.0m             |
| 8     | 2                | 13M        | 83.3u           | 1.328m                   | -                        | 393.8m             |
| 9     | 2                | 18M        | 51.9u           | 1.464m                   | -                        | 228.2m             |
| 10    | 2                | 17M        | 70.4u           | 1.025m                   | -                        | 68.90m             |
| 11    | 2                | 14M        | 59.5u           | 1.935m                   | -                        | 256.7m             |
| 12    | 3                | 15M        | 88.5u           | 1.387m                   | 1.184m                   | 397.6m             |
| 13    | 2                | 7M         | 52.1u           | 1.158m                   | -                        | 533.5m             |
| 14    | 2                | 10M        | 82.7u           | 1.530m                   | -                        | 27.77m             |
| 15    | 2                | 16M        | 55.2u           | 1.147m                   | -                        | 436.8m             |
| 16    | 1                | 18M        | 68.8u           | -                        | -                        | 545.6m             |
| 17    | 1                | 14M        | 73.3u           | -                        | -                        | 86.09m             |
| 18    | 3                | 19M        | 55.2u           | 1.013m                   | 1.480m                   | 575.2m             |
| 19    | 2                | 16M        | 70.5u           | 1.853m                   | -                        | 109.8m             |
| 20    | 1                | 10M        | 54.7u           | -                        | -                        | 393.2m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT20\_Signal\_28

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 8M         | 93.0u           | 1.573m                   | -                        | 1.227              |
| 2     | 2                | 12M        | 65.4u           | 1.389m                   | -                        | 731.3m             |
| 3     | 3                | 6M         | 87.4u           | 1.450m                   | 1.601m                   | 645.7m             |
| 4     | 1                | 8M         | 97.0u           | -                        | -                        | 463.1m             |
| 5     | 2                | 11M        | 96.8u           | 946.2u                   | -                        | 689.1m             |
| 6     | 2                | 6M         | 67.9u           | 1.685m                   | -                        | 497.7m             |
| 7     | 2                | 13M        | 76.7u           | 1.865m                   | -                        | 522.3m             |
| 8     | 2                | 7M         | 78.1u           | 1.098m                   | -                        | 328.4m             |
| 9     | 2                | 12M        | 78.0u           | 1.637m                   | -                        | 1.297              |

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP\_HT20\_Signal\_29

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 15M        | 66.7u           | 1.340m                   | -                        | 122.1m             |
| 2     | 1                | 19M        | 63.9u           | -                        | -                        | 109.8m             |
| 3     | 2                | 8M         | 61.3u           | 942.7u                   | -                        | 372.4m             |
| 4     | 1                | 10M        | 52.9u           | -                        | -                        | 433.0m             |
| 5     | 1                | 12M        | 90.7u           | -                        | -                        | 839.2m             |
| 6     | 2                | 6M         | 89.8u           | 1.542m                   | -                        | 541.8m             |
| 7     | 1                | 18M        | 96.1u           | -                        | -                        | 156.5m             |
| 8     | 1                | 6M         | 59.7u           | -                        | -                        | 66.44m             |
| 9     | 2                | 18M        | 91.6u           | 1.114m                   | -                        | 315.3m             |
| 10    | 2                | 11M        | 94.1u           | 1.033m                   | -                        | 339.4m             |
| 11    | 3                | 8M         | 92.9u           | 1.021m                   | 1.059m                   | 8.797m             |
| 12    | 2                | 9M         | 73.2u           | 1.824m                   | -                        | 672.3m             |

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_HT20\_Signal\_30

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 11M        | 66.9u           | 1.930m                   | -                        | 648.3m             |
| 2     | 2                | 12M        | 66.3u           | 1.356m                   | -                        | 55.89m             |
| 3     | 1                | 13M        | 77.4u           | -                        | -                        | 33.01m             |
| 4     | 2                | 8M         | 68.5u           | 1.695m                   | -                        | 268.6m             |
| 5     | 3                | 20M        | 94.0u           | 1.700m                   | 1.040m                   | 381.4m             |
| 6     | 1                | 15M        | 57.7u           | -                        | -                        | 537.8m             |
| 7     | 2                | 8M         | 58.3u           | 1.771m                   | -                        | 66.43m             |
| 8     | 2                | 16M        | 66.2u           | 1.495m                   | -                        | 178.1m             |
| 9     | 2                | 9M         | 98.7u           | 976.3u                   | -                        | 563.0m             |
| 10    | 1                | 15M        | 76.2u           | -                        | -                        | 453.6m             |
| 11    | 1                | 18M        | 84.6u           | -                        | -                        | 31.54m             |
| 12    | 2                | 9M         | 62.1u           | 1.136m                   | -                        | 393.9m             |
| 13    | 2                | 11M        | 90.9u           | 971.1u                   | -                        | 487.2m             |
| 14    | 2                | 5M         | 56.2u           | 1.799m                   | -                        | 803.7m             |



A D T

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_01

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 12M        | 92.5u           | -                        | -                        | 181.2m             |
| 2     | 3                | 15M        | 61.8u           | 1.833m                   | 1.889m                   | 592.4m             |
| 3     | 2                | 16M        | 57.9u           | 1.514m                   | -                        | 54.45m             |
| 4     | 3                | 18M        | 89.1u           | 1.383m                   | 1.112m                   | 94.05m             |
| 5     | 2                | 13M        | 100.0u          | 1.071m                   | -                        | 24.91m             |
| 6     | 3                | 16M        | 99.5u           | 1.169m                   | 964.5u                   | 447.2m             |
| 7     | 3                | 15M        | 100.0u          | 1.088m                   | 914.0u                   | 426.9m             |
| 8     | 1                | 15M        | 63.2u           | -                        | -                        | 185.5m             |
| 9     | 3                | 17M        | 91.4u           | 1.633m                   | 1.793m                   | 368.6m             |
| 10    | 3                | 13M        | 58.1u           | 1.673m                   | 1.528m                   | 646.3m             |
| 11    | 1                | 8M         | 52.9u           | -                        | -                        | 550.6m             |
| 12    | 1                | 17M        | 67.3u           | -                        | -                        | 590.5m             |
| 13    | 2                | 10M        | 63.5u           | 1.272m                   | -                        | 9.768m             |
| 14    | 3                | 17M        | 66.5u           | 1.147m                   | 1.513m                   | 239.4m             |
| 15    | 1                | 19M        | 70.0u           | -                        | -                        | 315.5m             |
| 16    | 1                | 6M         | 59.6u           | -                        | -                        | 49.02m             |
| 17    | 1                | 14M        | 64.6u           | -                        | -                        | 459.1m             |
| 18    | 2                | 8M         | 70.3u           | 1.640m                   | -                        | 254.1m             |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_02

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 15M        | 50.9u           | 1.845m                   | -                        | 752.9m             |
| 2     | 2                | 18M        | 70.0u           | 984.0u                   | -                        | 746.8m             |
| 3     | 2                | 13M        | 81.5u           | 1.485m                   | -                        | 553.0m             |
| 4     | 2                | 6M         | 89.0u           | 1.860m                   | -                        | 520.4m             |
| 5     | 1                | 9M         | 97.5u           | -                        | -                        | 372.7m             |
| 6     | 2                | 17M        | 86.1u           | 1.845m                   | -                        | 191.0m             |
| 7     | 2                | 15M        | 72.7u           | 1.378m                   | -                        | 671.0m             |
| 8     | 1                | 7M         | 62.5u           | -                        | -                        | 259.6m             |
| 9     | 3                | 14M        | 73.4u           | 1.305m                   | 1.036m                   | 462.6m             |
| 10    | 2                | 12M        | 62.4u           | 1.408m                   | -                        | 304.4m             |
| 11    | 3                | 17M        | 88.0u           | 1.256m                   | 1.799m                   | 600.8m             |
| 12    | 2                | 20M        | 88.9u           | 1.029m                   | -                        | 145.8m             |
| 13    | 1                | 10M        | 62.6u           | -                        | -                        | 331.0m             |
| 14    | 2                | 11M        | 79.3u           | 1.868m                   | -                        | 673.1m             |
| 15    | 1                | 18M        | 64.5u           | -                        | -                        | 32.45m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_03

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 14M        | 69.1u           | 1.801m                   | 1.885m                   | 35.35m             |
| 2     | 3                | 13M        | 85.7u           | 1.025m                   | 991.3u                   | 622.1m             |
| 3     | 1                | 18M        | 89.9u           | -                        | -                        | 445.9m             |
| 4     | 1                | 6M         | 68.1u           | -                        | -                        | 217.8m             |
| 5     | 2                | 20M        | 97.0u           | 1.188m                   | -                        | 527.8m             |
| 6     | 3                | 12M        | 65.5u           | 1.406m                   | 1.816m                   | 551.0m             |
| 7     | 2                | 15M        | 63.5u           | 1.731m                   | -                        | 137.1m             |
| 8     | 2                | 6M         | 63.6u           | 1.259m                   | -                        | 392.0u             |
| 9     | 2                | 19M        | 59.8u           | 1.771m                   | -                        | 169.0m             |
| 10    | 2                | 19M        | 52.6u           | 1.472m                   | -                        | 584.8m             |
| 11    | 1                | 6M         | 64.0u           | -                        | -                        | 303.0m             |
| 12    | 2                | 16M        | 50.1u           | 1.067m                   | -                        | 486.2m             |
| 13    | 2                | 9M         | 74.8u           | 1.057m                   | -                        | 238.1m             |
| 14    | 2                | 11M        | 75.3u           | 1.547m                   | -                        | 543.4m             |
| 15    | 2                | 10M        | 50.0u           | 1.294m                   | -                        | 294.1m             |
| 16    | 3                | 15M        | 79.7u           | 1.898m                   | 1.238m                   | 33.04m             |



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### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_04

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 13M        | 63.8u           | 1.569m                   | 1.576m                   | 388.8m             |
| 2     | 3                | 19M        | 68.9u           | 1.491m                   | 1.367m                   | 427.1m             |
| 3     | 2                | 7M         | 63.0u           | 1.196m                   | -                        | 43.84m             |
| 4     | 2                | 8M         | 64.2u           | 1.788m                   | -                        | 575.6m             |
| 5     | 2                | 19M        | 93.0u           | 1.576m                   | -                        | 266.6m             |
| 6     | 1                | 8M         | 91.2u           | -                        | -                        | 623.7m             |
| 7     | 2                | 17M        | 88.6u           | 1.609m                   | -                        | 173.7m             |
| 8     | 1                | 13M        | 75.1u           | -                        | -                        | 304.1m             |
| 9     | 3                | 20M        | 65.6u           | 1.272m                   | 1.627m                   | 452.9m             |
| 10    | 2                | 15M        | 78.5u           | 1.749m                   | -                        | 395.5m             |
| 11    | 3                | 16M        | 73.6u           | 1.054m                   | 1.027m                   | 248.7m             |
| 12    | 1                | 13M        | 72.5u           | -                        | -                        | 209.9m             |
| 13    | 1                | 12M        | 73.8u           | -                        | -                        | 249.1m             |
| 14    | 1                | 13M        | 95.5u           | -                        | -                        | 73.73m             |
| 15    | 2                | 14M        | 76.6u           | 1.914m                   | -                        | 427.7m             |
| 16    | 3                | 16M        | 81.2u           | 1.452m                   | 1.370m                   | 622.7m             |
| 17    | 2                | 15M        | 75.6u           | 1.055m                   | -                        | 517.5m             |
| 18    | 1                | 9M         | 92.9u           | -                        | -                        | 211.0m             |
| 19    | 2                | 7M         | 66.3u           | 1.298m                   | -                        | 477.6m             |



A D T

# Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_05

Number of Bursts in Trial: 17

| Burst | Pulses<br>per<br>Burst | Chrip<br>(Hz) | Pulse<br>Width (s) | Pulse 1 to 2<br>Spacing (s) | Pulse 2 to 3<br>Spacing (s) | Start<br>Location (s) |
|-------|------------------------|---------------|--------------------|-----------------------------|-----------------------------|-----------------------|
| 1     | 1                      | 13M           | 78.5u              | -                           | -                           | 481.7m                |
| 2     | 3                      | 15M           | 61.0u              | 1.470m                      | 1.524m                      | 24.13m                |
| 3     | 2                      | 13M           | 78.0u              | 1.678m                      | -                           | 437.0m                |
| 4     | 2                      | 16M           | 88.5u              | 1.334m                      | -                           | 357.4m                |
| 5     | 2                      | 8M            | 75.0u              | 1.560m                      | -                           | 108.0m                |
| 6     | 2                      | 9M            | 80.7u              | 1.211m                      | -                           | 204.9m                |
| 7     | 3                      | 6M            | 61.4u              | 1.565m                      | 1.155m                      | 591.6m                |
| 8     | 3                      | 7M            | 89.1u              | 1.095m                      | 1.126m                      | 443.2m                |
| 9     | 1                      | 19M           | 96.1u              | -                           | -                           | 35.55m                |
| 10    | 2                      | 20M           | 96.7u              | 1.838m                      | -                           | 298.8m                |
| 11    | 2                      | 12M           | 60.3u              | 1.472m                      | -                           | 16.68m                |
| 12    | 3                      | 8M            | 81.4u              | 1.733m                      | 941.6u                      | 621.1m                |
| 13    | 3                      | 14M           | 62.3u              | 1.095m                      | 1.455m                      | 477.5m                |
| 14    | 2                      | 10M           | 53.4u              | 1.818m                      | -                           | 244.4m                |
| 15    | 1                      | 19M           | 96.8u              | -                           | -                           | 415.4m                |
| 16    | 1                      | 11M           | 63.5u              | -                           | -                           | 609.7m                |
| 17    | 2                      | 7M            | 60.0u              | 1.402m                      | -                           | 490.9m                |



A D T

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_06

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 6M         | 62.6u           | 942.4u                   | 1.231m                   | 41.02m             |
| 2     | 2                | 18M        | 56.6u           | 1.586m                   | -                        | 492.1m             |
| 3     | 2                | 16M        | 99.8u           | 1.883m                   | -                        | 654.3m             |
| 4     | 2                | 18M        | 62.9u           | 1.439m                   | -                        | 550.5m             |
| 5     | 2                | 11M        | 99.6u           | 1.379m                   | -                        | 623.2m             |
| 6     | 2                | 7M         | 83.1u           | 1.271m                   | -                        | 366.8m             |
| 7     | 2                | 19M        | 51.2u           | 1.442m                   | -                        | 44.31m             |
| 8     | 3                | 9M         | 64.8u           | 1.122m                   | 1.053m                   | 332.0m             |
| 9     | 2                | 11M        | 82.4u           | 1.044m                   | -                        | 300.8m             |
| 10    | 3                | 12M        | 93.9u           | 939.1u                   | 1.830m                   | 78.30m             |
| 11    | 1                | 7M         | 61.2u           | -                        | -                        | 182.0m             |
| 12    | 1                | 15M        | 80.2u           | -                        | -                        | 36.97m             |
| 13    | 2                | 15M        | 69.6u           | 1.288m                   | -                        | 23.20m             |
| 14    | 3                | 8M         | 56.6u           | 1.326m                   | 1.130m                   | 65.06m             |
| 15    | 2                | 14M        | 68.8u           | 1.564m                   | -                        | 639.8m             |
| 16    | 1                | 10M        | 97.7u           | -                        | -                        | 660.4m             |
| 17    | 3                | 15M        | 66.3u           | 1.879m                   | 1.052m                   | 88.38m             |
| 18    | 1                | 8M         | 57.7u           | -                        | -                        | 273.7m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_07

Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 11M        | 70.8u           | -                        | -                        | 150.5m             |
| 2     | 3                | 6M         | 82.5u           | 1.070m                   | 1.841m                   | 100.7m             |
| 3     | 3                | 7M         | 69.0u           | 983.0u                   | 1.027m                   | 468.1m             |
| 4     | 1                | 14M        | 54.0u           | -                        | -                        | 370.1m             |
| 5     | 2                | 8M         | 70.8u           | 1.928m                   | -                        | 585.6m             |
| 6     | 2                | 7M         | 81.6u           | 1.231m                   | -                        | 653.3m             |
| 7     | 1                | 16M        | 66.1u           | -                        | -                        | 899.4m             |
| 8     | 2                | 19M        | 91.7u           | 1.563m                   | -                        | 752.7m             |
| 9     | 3                | 9M         | 65.8u           | 1.482m                   | 1.239m                   | 748.9m             |
| 10    | 2                | 16M        | 68.8u           | 1.253m                   | -                        | 519.3m             |
| 11    | 1                | 15M        | 65.4u           | -                        | -                        | 256.6m             |
| 12    | 1                | 18M        | 76.1u           | -                        | -                        | 921.9m             |



**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP\_HT40\_Signal\_08

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 15M        | 74.9u           | -                        | -                        | 847.6m             |
| 2     | 2                | 14M        | 60.6u           | 1.496m                   | -                        | 1.188              |
| 3     | 2                | 17M        | 98.0u           | 1.701m                   | -                        | 806.9m             |
| 4     | 1                | 10M        | 92.2u           | -                        | -                        | 909.7m             |
| 5     | 1                | 17M        | 82.6u           | -                        | -                        | 329.4m             |
| 6     | 2                | 10M        | 77.1u           | 1.820m                   | -                        | 976.8m             |
| 7     | 2                | 13M        | 85.0u           | 1.288m                   | -                        | 172.2m             |
| 8     | 2                | 13M        | 62.3u           | 1.725m                   | -                        | 854.7m             |
| 9     | 2                | 6M         | 68.3u           | 1.756m                   | -                        | 1.308              |

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_HT40\_Signal\_09

Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 19M        | 56.3u           | 1.643m                   | -                        | 432.9m             |
| 2     | 2                | 16M        | 94.8u           | 1.401m                   | -                        | 810.8m             |
| 3     | 2                | 19M        | 90.9u           | 932.1u                   | -                        | 274.1m             |
| 4     | 1                | 14M        | 69.7u           | -                        | -                        | 350.2m             |
| 5     | 2                | 18M        | 58.9u           | 1.703m                   | -                        | 648.0m             |
| 6     | 2                | 10M        | 89.5u           | 935.5u                   | -                        | 394.3m             |
| 7     | 2                | 13M        | 78.9u           | 1.807m                   | -                        | 731.8m             |
| 8     | 3                | 9M         | 76.4u           | 1.301m                   | 1.417m                   | 64.89m             |
| 9     | 2                | 13M        | 85.5u           | 1.861m                   | -                        | 194.4m             |
| 10    | 2                | 7M         | 88.0u           | 1.235m                   | -                        | 277.5m             |
| 11    | 2                | 11M        | 73.5u           | 1.414m                   | -                        | 177.3m             |
| 12    | 1                | 17M        | 87.2u           | -                        | -                        | 304.3m             |
| 13    | 2                | 6M         | 92.9u           | 1.497m                   | -                        | 724.5m             |
| 14    | 2                | 12M        | 63.0u           | 1.616m                   | -                        | 637.1m             |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_10

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 17M        | 83.8u           | 1.652m                   | -                        | 106.7m             |
| 2     | 3                | 14M        | 97.9u           | 1.707m                   | 1.861m                   | 216.0m             |
| 3     | 1                | 19M        | 56.4u           | -                        | -                        | 67.09m             |
| 4     | 2                | 8M         | 85.6u           | 1.141m                   | -                        | 624.0m             |
| 5     | 2                | 9M         | 78.7u           | 1.514m                   | -                        | 357.2m             |
| 6     | 1                | 17M        | 61.2u           | -                        | -                        | 416.2m             |
| 7     | 3                | 7M         | 79.9u           | 1.142m                   | 1.464m                   | 654.7m             |
| 8     | 2                | 12M        | 55.9u           | 1.431m                   | -                        | 602.2m             |
| 9     | 3                | 13M        | 55.8u           | 1.124m                   | 1.825m                   | 531.4m             |
| 10    | 2                | 7M         | 51.0u           | 1.639m                   | -                        | 218.8m             |
| 11    | 3                | 7M         | 57.0u           | 1.433m                   | 1.383m                   | 365.7m             |
| 12    | 2                | 15M        | 83.2u           | 1.255m                   | -                        | 215.0m             |
| 13    | 3                | 19M        | 55.9u           | 1.266m                   | 1.705m                   | 576.6m             |
| 14    | 2                | 17M        | 96.3u           | 1.287m                   | -                        | 417.1m             |
| 15    | 3                | 5M         | 51.5u           | 1.659m                   | 1.462m                   | 516.2m             |
| 16    | 2                | 16M        | 76.0u           | 1.873m                   | -                        | 209.1m             |
| 17    | 2                | 7M         | 69.7u           | 1.378m                   | -                        | 369.0m             |
| 18    | 2                | 10M        | 87.7u           | 1.612m                   | -                        | 545.1m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_11

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 7M         | 77.3u           | 1.323m                   | -                        | 28.84m             |
| 2     | 2                | 9M         | 82.9u           | 1.859m                   | -                        | 474.0m             |
| 3     | 2                | 17M        | 63.4u           | 1.873m                   | -                        | 390.9m             |
| 4     | 3                | 7M         | 99.3u           | 1.369m                   | 970.7u                   | 656.7m             |
| 5     | 2                | 16M        | 56.3u           | 1.685m                   | -                        | 486.6m             |
| 6     | 2                | 8M         | 65.7u           | 1.498m                   | -                        | 864.4m             |
| 7     | 2                | 6M         | 72.0u           | 980.0u                   | -                        | 351.7m             |
| 8     | 2                | 12M        | 57.0u           | 1.377m                   | -                        | 769.1m             |
| 9     | 3                | 17M        | 62.1u           | 1.299m                   | 1.727m                   | 705.0m             |
| 10    | 1                | 16M        | 92.4u           | -                        | -                        | 852.0m             |
| 11    | 2                | 12M        | 52.8u           | 1.351m                   | -                        | 286.4m             |
| 12    | 2                | 11M        | 71.1u           | 1.025m                   | -                        | 530.4m             |
| 13    | 2                | 16M        | 55.3u           | 1.868m                   | -                        | 558.6m             |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_12

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 19M        | 74.1u           | 1.115m                   | -                        | 37.10m             |
| 2     | 1                | 14M        | 82.5u           | -                        | -                        | 789.7m             |
| 3     | 2                | 11M        | 66.4u           | 1.892m                   | -                        | 622.3m             |
| 4     | 2                | 15M        | 96.8u           | 1.187m                   | -                        | 668.0m             |
| 5     | 3                | 8M         | 93.8u           | 1.124m                   | 1.416m                   | 357.0m             |
| 6     | 3                | 13M        | 63.0u           | 1.837m                   | 1.421m                   | 793.8m             |
| 7     | 2                | 18M        | 77.2u           | 1.344m                   | -                        | 656.5m             |
| 8     | 1                | 11M        | 87.4u           | -                        | -                        | 981.9m             |
| 9     | 1                | 12M        | 87.3u           | -                        | -                        | 807.2m             |
| 10    | 2                | 17M        | 76.6u           | 1.222m                   | -                        | 732.6m             |
| 11    | 3                | 19M        | 88.3u           | 1.350m                   | 1.906m                   | 737.7m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_13

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 14M        | 90.0u           | -                        | -                        | 626.3m             |
| 2     | 3                | 16M        | 52.7u           | 1.625m                   | 1.071m                   | 371.9m             |
| 3     | 2                | 7M         | 65.2u           | 1.139m                   | -                        | 43.30m             |
| 4     | 2                | 15M        | 79.4u           | 1.491m                   | -                        | 430.5m             |
| 5     | 2                | 9M         | 85.0u           | 1.801m                   | -                        | 598.0m             |
| 6     | 2                | 17M        | 58.5u           | 1.920m                   | -                        | 377.7m             |
| 7     | 1                | 20M        | 96.4u           | -                        | -                        | 368.2m             |
| 8     | 3                | 7M         | 97.9u           | 1.335m                   | 1.390m                   | 468.9m             |
| 9     | 1                | 5M         | 57.7u           | -                        | -                        | 300.3m             |
| 10    | 2                | 8M         | 88.7u           | 1.251m                   | -                        | 430.0m             |
| 11    | 2                | 14M        | 75.7u           | 1.489m                   | -                        | 505.9m             |
| 12    | 2                | 5M         | 97.1u           | 943.9u                   | -                        | 607.1m             |
| 13    | 2                | 9M         | 72.4u           | 928.6u                   | -                        | 4.126m             |
| 14    | 2                | 18M        | 93.3u           | 1.230m                   | -                        | 406.9m             |
| 15    | 3                | 14M        | 68.6u           | 1.354m                   | 1.293m                   | 578.2m             |
| 16    | 3                | 5M         | 71.7u           | 1.206m                   | 957.3u                   | 426.3m             |
| 17    | 3                | 19M        | 57.8u           | 1.199m                   | 1.465m                   | 217.5m             |
| 18    | 2                | 6M         | 72.1u           | 1.720m                   | -                        | 434.5m             |
| 19    | 2                | 10M        | 61.5u           | 1.594m                   | -                        | 82.42m             |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_14

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 12M        | 69.0u           | -                        | -                        | 1.413              |
| 2     | 2                | 13M        | 91.5u           | 1.264m                   | -                        | 948.3m             |
| 3     | 1                | 15M        | 54.9u           | -                        | -                        | 118.0m             |
| 4     | 3                | 16M        | 65.5u           | 1.524m                   | 1.298m                   | 1.050              |
| 5     | 2                | 16M        | 64.9u           | 1.632m                   | -                        | 1.142              |
| 6     | 1                | 7M         | 88.0u           | -                        | -                        | 933.1m             |
| 7     | 2                | 10M        | 79.7u           | 1.867m                   | -                        | 30.65m             |
| 8     | 3                | 9M         | 88.4u           | 1.199m                   | 1.388m                   | 603.2m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_15

Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 14M        | 68.2u           | 1.538m                   | -                        | 64.00m             |
| 2     | 2                | 12M        | 63.2u           | 1.658m                   | -                        | 65.30m             |
| 3     | 2                | 10M        | 59.4u           | 1.900m                   | -                        | 664.8m             |
| 4     | 2                | 10M        | 95.4u           | 1.904m                   | -                        | 713.8m             |
| 5     | 1                | 13M        | 72.1u           | -                        | -                        | 158.6m             |
| 6     | 3                | 13M        | 90.7u           | 1.644m                   | 1.239m                   | 738.2m             |
| 7     | 2                | 16M        | 75.0u           | 1.028m                   | -                        | 717.7m             |
| 8     | 2                | 10M        | 60.2u           | 1.728m                   | -                        | 750.0m             |
| 9     | 3                | 11M        | 81.4u           | 1.579m                   | 1.442m                   | 61.22m             |
| 10    | 1                | 6M         | 64.7u           | -                        | -                        | 368.0m             |
| 11    | 1                | 14M        | 92.7u           | -                        | -                        | 60.51m             |
| 12    | 3                | 9M         | 64.1u           | 1.418m                   | 1.049m                   | 57.55m             |
| 13    | 1                | 6M         | 62.4u           | -                        | -                        | 140.3m             |
| 14    | 2                | 17M        | 63.7u           | 1.606m                   | -                        | 268.5m             |
| 15    | 1                | 20M        | 72.6u           | -                        | -                        | 303.9m             |



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_16

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 6M         | 56.1u           | 1.082m                   | -                        | 641.1m             |
| 2     | 3                | 18M        | 84.5u           | 1.678m                   | 1.404m                   | 1.328              |
| 3     | 1                | 10M        | 74.9u           | -                        | -                        | 295.4m             |
| 4     | 2                | 15M        | 52.7u           | 1.810m                   | -                        | 1.137              |
| 5     | 2                | 8M         | 50.7u           | 1.712m                   | -                        | 198.2m             |
| 6     | 3                | 15M        | 89.0u           | 1.529m                   | 1.675m                   | 314.7m             |
| 7     | 3                | 6M         | 69.4u           | 1.713m                   | 1.765m                   | 876.8m             |
| 8     | 2                | 6M         | 96.9u           | 1.313m                   | -                        | 1.032              |
| 9     | 3                | 16M        | 85.8u           | 1.148m                   | 1.285m                   | 746.7m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_17

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 15M        | 64.7u           | 1.617m                   | -                        | 556.1m             |
| 2     | 1                | 11M        | 94.5u           | -                        | -                        | 319.4m             |
| 3     | 3                | 15M        | 66.2u           | 1.550m                   | 990.8u                   | 380.5m             |
| 4     | 1                | 19M        | 71.6u           | -                        | -                        | 656.3m             |
| 5     | 1                | 19M        | 88.1u           | -                        | -                        | 430.6m             |
| 6     | 2                | 18M        | 69.5u           | 1.786m                   | -                        | 380.9m             |
| 7     | 2                | 15M        | 51.0u           | 1.080m                   | -                        | 274.2m             |
| 8     | 2                | 18M        | 68.7u           | 1.565m                   | -                        | 8.002m             |
| 9     | 2                | 11M        | 88.2u           | 1.457m                   | -                        | 557.0m             |
| 10    | 2                | 8M         | 81.7u           | 1.477m                   | -                        | 138.0u             |
| 11    | 1                | 19M        | 60.8u           | -                        | -                        | 549.6m             |
| 12    | 1                | 6M         | 72.7u           | -                        | -                        | 197.6m             |
| 13    | 2                | 19M        | 78.7u           | 1.474m                   | -                        | 156.8m             |
| 14    | 2                | 20M        | 76.9u           | 1.432m                   | -                        | 270.7m             |
| 15    | 1                | 19M        | 59.8u           | -                        | -                        | 165.7m             |
| 16    | 1                | 11M        | 85.3u           | -                        | -                        | 384.6m             |
| 17    | 2                | 13M        | 98.1u           | 1.719m                   | -                        | 279.2m             |
| 18    | 2                | 6M         | 50.9u           | 1.427m                   | -                        | 363.0m             |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_18

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 16M        | 50.6u           | 1.928m                   | 1.192m                   | 668.3m             |
| 2     | 1                | 13M        | 90.4u           | -                        | -                        | 355.2m             |
| 3     | 2                | 16M        | 83.7u           | 997.3u                   | -                        | 1.022              |
| 4     | 2                | 9M         | 70.8u           | 1.489m                   | -                        | 335.6m             |
| 5     | 2                | 13M        | 51.1u           | 1.212m                   | -                        | 739.2m             |
| 6     | 2                | 19M        | 74.4u           | 1.327m                   | -                        | 653.4m             |
| 7     | 2                | 17M        | 72.5u           | 1.370m                   | -                        | 1.008              |
| 8     | 2                | 18M        | 98.3u           | 1.809m                   | -                        | 356.1m             |
| 9     | 1                | 11M        | 63.0u           | -                        | -                        | 932.0m             |
| 10    | 3                | 7M         | 57.8u           | 1.165m                   | 1.653m                   | 965.3m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_19

Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 10M        | 88.1u           | -                        | -                        | 278.4m             |
| 2     | 2                | 14M        | 57.2u           | 952.8u                   | -                        | 419.0m             |
| 3     | 3                | 9M         | 78.1u           | 1.233m                   | 988.9u                   | 156.1m             |
| 4     | 2                | 17M        | 68.5u           | 1.123m                   | -                        | 170.0m             |
| 5     | 2                | 15M        | 72.9u           | 1.138m                   | -                        | 475.1m             |
| 6     | 2                | 13M        | 59.4u           | 1.497m                   | -                        | 653.8m             |
| 7     | 3                | 20M        | 68.3u           | 1.501m                   | 1.094m                   | 432.9m             |
| 8     | 2                | 11M        | 70.6u           | 1.723m                   | -                        | 518.7m             |
| 9     | 1                | 10M        | 55.5u           | -                        | -                        | 575.2m             |
| 10    | 3                | 12M        | 57.7u           | 1.567m                   | 954.3u                   | 151.9m             |
| 11    | 2                | 11M        | 86.6u           | 1.520m                   | -                        | 285.0m             |
| 12    | 2                | 13M        | 73.3u           | 1.172m                   | -                        | 311.7m             |
| 13    | 2                | 10M        | 72.9u           | 1.707m                   | -                        | 288.4m             |
| 14    | 2                | 12M        | 95.6u           | 1.058m                   | -                        | 388.7m             |
| 15    | 1                | 9M         | 78.6u           | -                        | -                        | 563.5m             |
| 16    | 3                | 18M        | 83.8u           | 1.602m                   | 1.058m                   | 373.8m             |
| 17    | 2                | 5M         | 64.1u           | 1.717m                   | -                        | 413.2m             |



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Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_20

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 11M        | 58.8u           | 1.696m                   | 1.879m                   | 145.8m             |
| 2     | 2                | 9M         | 59.5u           | 1.422m                   | -                        | 158.4m             |
| 3     | 1                | 5M         | 54.6u           | -                        | -                        | 271.7m             |
| 4     | 2                | 8M         | 80.4u           | 1.546m                   | -                        | 99.47m             |
| 5     | 2                | 10M        | 67.2u           | 1.094m                   | -                        | 93.65m             |
| 6     | 1                | 13M        | 79.3u           | -                        | -                        | 313.6m             |
| 7     | 2                | 18M        | 67.7u           | 1.290m                   | -                        | 559.0m             |
| 8     | 2                | 10M        | 70.0u           | 1.316m                   | -                        | 106.4m             |
| 9     | 3                | 11M        | 78.2u           | 1.720m                   | 1.038m                   | 690.5m             |
| 10    | 1                | 9M         | 93.4u           | -                        | -                        | 125.2m             |
| 11    | 2                | 13M        | 85.9u           | 1.570m                   | -                        | 679.2m             |
| 12    | 2                | 16M        | 75.0u           | 930.0u                   | -                        | 428.7m             |
| 13    | 3                | 7M         | 67.1u           | 1.117m                   | 1.220m                   | 24.56m             |
| 14    | 2                | 8M         | 52.2u           | 1.295m                   | -                        | 398.7m             |
| 15    | 2                | 16M        | 70.4u           | 1.063m                   | -                        | 453.8m             |
| 16    | 2                | 9M         | 60.6u           | 1.221m                   | -                        | 255.1m             |

Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_21

Number of Bursts in Trial: 11

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 16M        | 78.4u           | 1.095m                   | 1.436m                   | 784.6m             |
| 2     | 3                | 10M        | 69.7u           | 1.815m                   | 1.412m                   | 521.8m             |
| 3     | 1                | 19M        | 66.8u           | -                        | -                        | 901.3m             |
| 4     | 1                | 9M         | 88.2u           | -                        | -                        | 11.32m             |
| 5     | 3                | 13M        | 82.5u           | 1.521m                   | 1.609m                   | 968.7m             |
| 6     | 2                | 8M         | 98.1u           | 1.359m                   | -                        | 614.8m             |
| 7     | 2                | 19M        | 87.1u           | 1.197m                   | -                        | 631.4m             |
| 8     | 2                | 13M        | 95.3u           | 1.708m                   | -                        | 885.1m             |
| 9     | 2                | 7M         | 78.4u           | 1.134m                   | -                        | 74.04m             |
| 10    | 2                | 15M        | 77.9u           | 1.293m                   | -                        | 149.8m             |
| 11    | 1                | 17M        | 73.3u           | -                        | -                        | 237.8m             |



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#### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_22

Number of Bursts in Trial: 13

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 19M        | 57.2u           | 1.369m                   | -                        | 306.2m             |
| 2     | 2                | 19M        | 61.7u           | 1.648m                   | -                        | 415.9m             |
| 3     | 2                | 18M        | 59.4u           | 1.139m                   | -                        | 615.1m             |
| 4     | 2                | 13M        | 75.7u           | 1.733m                   | -                        | 288.1m             |
| 5     | 2                | 9M         | 80.9u           | 949.1u                   | -                        | 758.9m             |
| 6     | 2                | 15M        | 90.5u           | 1.399m                   | -                        | 181.8m             |
| 7     | 3                | 17M        | 73.5u           | 1.651m                   | 1.712m                   | 674.6m             |
| 8     | 1                | 9M         | 63.3u           | -                        | -                        | 468.0m             |
| 9     | 1                | 11M        | 57.5u           | -                        | -                        | 354.7m             |
| 10    | 3                | 11M        | 76.8u           | 1.354m                   | 1.192m                   | 228.9m             |
| 11    | 3                | 11M        | 62.8u           | 1.284m                   | 1.242m                   | 34.43m             |
| 12    | 2                | 6M         | 63.8u           | 1.130m                   | -                        | 493.6m             |
| 13    | 2                | 18M        | 80.3u           | 1.619m                   | -                        | 149.7m             |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_23

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 11M        | 65.0u           | 1.156m                   | -                        | 164.8m             |
| 2     | 1                | 8M         | 62.2u           | -                        | -                        | 22.47m             |
| 3     | 1                | 15M        | 82.3u           | -                        | -                        | 231.4m             |
| 4     | 3                | 7M         | 97.5u           | 1.022m                   | 1.560m                   | 293.0m             |
| 5     | 3                | 9M         | 50.6u           | 1.091m                   | 963.4u                   | 242.8m             |
| 6     | 1                | 8M         | 54.9u           | -                        | -                        | 429.2m             |
| 7     | 2                | 12M        | 58.7u           | 1.529m                   | -                        | 1.025              |
| 8     | 2                | 11M        | 97.4u           | 1.139m                   | -                        | 1.237              |
| 9     | 3                | 13M        | 78.8u           | 1.466m                   | 1.357m                   | 1.205              |





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#### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_24

Number of Bursts in Trial: 10

| Burst | Pulses per Burst | Chirp (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 18M        | 79.0u           | 1.815m                   | -                        | 1.173              |
| 2     | 3                | 13M        | 65.1u           | 1.916m                   | 1.470m                   | 558.5m             |
| 3     | 2                | 19M        | 50.1u           | 1.513m                   | -                        | 507.4m             |
| 4     | 2                | 15M        | 70.1u           | 981.9u                   | -                        | 392.7m             |
| 5     | 1                | 9M         | 70.1u           | -                        | -                        | 584.7m             |
| 6     | 3                | 19M        | 81.3u           | 1.162m                   | 1.334m                   | 76.20m             |
| 7     | 2                | 16M        | 94.7u           | 1.775m                   | -                        | 655.8m             |
| 8     | 2                | 19M        | 59.7u           | 1.242m                   | -                        | 187.6m             |
| 9     | 2                | 16M        | 94.0u           | 1.081m                   | -                        | 942.1m             |
| 10    | 3                | 10M        | 71.8u           | 1.382m                   | 1.538m                   | 484.6m             |

#### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_25

Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chirp (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 10M        | 89.4u           | 1.280m                   | 937.6u                   | 253.5m             |
| 2     | 1                | 6M         | 60.4u           | -                        | -                        | 661.7m             |
| 3     | 2                | 10M        | 85.4u           | 1.427m                   | -                        | 397.7m             |
| 4     | 3                | 15M        | 83.0u           | 1.453m                   | 1.231m                   | 33.56m             |
| 5     | 3                | 13M        | 50.6u           | 1.112m                   | 1.290m                   | 262.1m             |
| 6     | 3                | 13M        | 54.6u           | 1.397m                   | 1.069m                   | 309.8m             |
| 7     | 2                | 16M        | 75.2u           | 1.058m                   | -                        | 53.30m             |
| 8     | 1                | 6M         | 98.2u           | -                        | -                        | 352.8m             |
| 9     | 1                | 10M        | 70.1u           | -                        | -                        | 512.9m             |
| 10    | 3                | 17M        | 84.3u           | 1.277m                   | 1.392m                   | 379.2m             |
| 11    | 2                | 7M         | 62.5u           | 1.759m                   | -                        | 136.3m             |
| 12    | 2                | 13M        | 90.9u           | 1.106m                   | -                        | 165.9m             |
| 13    | 1                | 9M         | 93.5u           | -                        | -                        | 138.8m             |
| 14    | 2                | 12M        | 82.0u           | 1.839m                   | -                        | 43.11m             |
| 15    | 1                | 11M        | 64.7u           | -                        | -                        | 274.5m             |
| 16    | 2                | 14M        | 90.6u           | 1.320m                   | -                        | 54.45m             |
| 17    | 1                | 16M        | 95.0u           | -                        | -                        | 402.2m             |
| 18    | 2                | 14M        | 87.8u           | 1.450m                   | -                        | 547.5m             |



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### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_26

Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 6M         | 85.4u           | -                        | -                        | 1.081              |
| 2     | 3                | 9M         | 62.3u           | 1.603m                   | 1.142m                   | 531.8m             |
| 3     | 2                | 20M        | 57.7u           | 1.702m                   | -                        | 447.6m             |
| 4     | 3                | 11M        | 76.7u           | 1.497m                   | 1.728m                   | 925.9m             |
| 5     | 2                | 11M        | 58.4u           | 1.782m                   | -                        | 435.1m             |
| 6     | 3                | 14M        | 56.7u           | 1.017m                   | 1.014m                   | 30.61m             |
| 7     | 3                | 15M        | 65.7u           | 1.191m                   | 1.174m                   | 50.81m             |
| 8     | 1                | 6M         | 74.5u           | -                        | -                        | 1.124              |
| 9     | 2                | 6M         | 95.2u           | 1.375m                   | -                        | 883.8m             |

### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_27

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 3                | 20M        | 97.8u           | 934.2u                   | 1.048m                   | 172.3m             |
| 2     | 3                | 11M        | 64.8u           | 987.2u                   | 1.062m                   | 590.4m             |
| 3     | 1                | 11M        | 67.5u           | -                        | -                        | 360.9m             |
| 4     | 3                | 18M        | 81.9u           | 1.408m                   | 1.223m                   | 154.6m             |
| 5     | 1                | 15M        | 70.7u           | -                        | -                        | 218.6m             |
| 6     | 3                | 15M        | 92.5u           | 1.223m                   | 1.429m                   | 232.9m             |
| 7     | 3                | 13M        | 74.6u           | 1.710m                   | 1.882m                   | 181.4m             |
| 8     | 2                | 10M        | 96.1u           | 1.089m                   | -                        | 495.7m             |
| 9     | 1                | 13M        | 55.1u           | -                        | -                        | 557.5m             |
| 10    | 1                | 10M        | 62.8u           | -                        | -                        | 78.61m             |
| 11    | 2                | 10M        | 54.6u           | 1.101m                   | -                        | 332.6m             |
| 12    | 2                | 13M        | 74.5u           | 1.798m                   | -                        | 456.3m             |
| 13    | 2                | 19M        | 58.9u           | 1.742m                   | -                        | 433.2m             |
| 14    | 2                | 11M        | 67.5u           | 1.133m                   | -                        | 290.1m             |
| 15    | 3                | 13M        | 74.2u           | 1.417m                   | 1.843m                   | 397.9m             |
| 16    | 3                | 15M        | 95.7u           | 1.416m                   | 1.568m                   | 49.43m             |
| 17    | 2                | 9M         | 76.1u           | 1.285m                   | -                        | 546.9m             |
| 18    | 2                | 11M        | 53.1u           | 1.069m                   | -                        | 192.6m             |
| 19    | 3                | 12M        | 60.4u           | 1.397m                   | 1.238m                   | 452.4m             |

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP\_HT40\_Signal\_28

Number of Bursts in Trial: 8

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 17M        | 97.5u           | -                        | -                        | 283.2m             |
| 2     | 1                | 7M         | 76.1u           | -                        | -                        | 1.412              |
| 3     | 3                | 7M         | 70.1u           | 1.487m                   | 968.9u                   | 997.8m             |
| 4     | 2                | 5M         | 82.2u           | 1.133m                   | -                        | 642.8m             |
| 5     | 3                | 13M        | 93.8u           | 1.673m                   | 1.891m                   | 1.459              |
| 6     | 1                | 18M        | 56.7u           | -                        | -                        | 1.475              |
| 7     | 3                | 11M        | 58.6u           | 1.562m                   | 1.918m                   | 945.5m             |
| 8     | 1                | 13M        | 95.1u           | -                        | -                        | 1.120              |

**Long Pulse Radar Test Signal**

Test Signal Name: LP\_HT40\_Signal\_29

Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 2                | 12M        | 65.4u           | 1.342m                   | -                        | 422.1m             |
| 2     | 2                | 7M         | 53.8u           | 1.900m                   | -                        | 528.4m             |
| 3     | 2                | 9M         | 82.5u           | 1.691m                   | -                        | 181.7m             |
| 4     | 2                | 9M         | 85.3u           | 1.903m                   | -                        | 3.318m             |
| 5     | 1                | 13M        | 67.7u           | -                        | -                        | 504.1m             |
| 6     | 2                | 18M        | 92.3u           | 1.289m                   | -                        | 656.2m             |
| 7     | 3                | 9M         | 99.8u           | 1.367m                   | 1.814m                   | 551.7m             |
| 8     | 1                | 19M        | 68.2u           | -                        | -                        | 38.20m             |
| 9     | 3                | 16M        | 70.7u           | 1.927m                   | 938.3u                   | 206.7m             |
| 10    | 2                | 7M         | 87.5u           | 1.754m                   | -                        | 692.4m             |
| 11    | 2                | 20M        | 98.6u           | 1.071m                   | -                        | 728.4m             |
| 12    | 1                | 11M        | 60.1u           | -                        | -                        | 540.0m             |
| 13    | 3                | 7M         | 94.1u           | 1.473m                   | 1.675m                   | 346.0m             |
| 14    | 2                | 10M        | 53.8u           | 1.882m                   | -                        | 737.3m             |
| 15    | 3                | 6M         | 78.1u           | 987.9u                   | 1.755m                   | 224.3m             |
| 16    | 3                | 7M         | 72.0u           | 1.108m                   | 1.326m                   | 432.9m             |



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### Long Pulse Radar Test Signal

Test Signal Name: LP\_HT40\_Signal\_30

Number of Bursts in Trial: 19

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|-------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 1     | 1                | 11M        | 64.5u           | -                        | -                        | 320.5m             |
| 2     | 2                | 19M        | 92.1u           | 1.208m                   | -                        | 12.86m             |
| 3     | 1                | 15M        | 68.3u           | -                        | -                        | 137.2m             |
| 4     | 2                | 19M        | 59.2u           | 1.631m                   | -                        | 294.7m             |
| 5     | 3                | 8M         | 73.9u           | 1.254m                   | 1.231m                   | 468.8m             |
| 6     | 2                | 9M         | 56.4u           | 1.537m                   | -                        | 377.1m             |
| 7     | 3                | 10M        | 91.8u           | 1.568m                   | 1.249m                   | 517.1m             |
| 8     | 3                | 8M         | 61.1u           | 1.568m                   | 1.858m                   | 284.3m             |
| 9     | 1                | 16M        | 97.9u           | -                        | -                        | 254.5m             |
| 10    | 2                | 20M        | 58.0u           | 1.639m                   | -                        | 177.2m             |
| 11    | 2                | 18M        | 78.9u           | 1.012m                   | -                        | 628.1m             |
| 12    | 2                | 19M        | 81.7u           | 1.399m                   | -                        | 325.3m             |
| 13    | 2                | 13M        | 82.6u           | 1.122m                   | -                        | 45.61m             |
| 14    | 2                | 18M        | 50.4u           | 1.389m                   | -                        | 31.52m             |
| 15    | 2                | 7M         | 92.8u           | 1.757m                   | -                        | 625.6m             |
| 16    | 1                | 16M        | 56.1u           | -                        | -                        | 295.5m             |
| 17    | 2                | 20M        | 50.3u           | 1.777m                   | -                        | 445.3m             |
| 18    | 2                | 19M        | 62.4u           | 1.034m                   | -                        | 513.4m             |
| 19    | 2                | 7M         | 82.2u           | 1.024m                   | -                        | 349.5m             |



## B.2 The Frequency Hopping Radar Pattern

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_01 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.261G         | 2    | 5.721G         | 3    | 5.325G         | 4    | 5.464G         |
| 5                                                     | 5.696G         | 6    | 5.424G         | 7    | 5.312G         | 8    | 5.284G         |
| 9                                                     | 5.619G         | 10   | 5.256G         | 11   | 5.602G         | 12   | 5.473G         |
| 13                                                    | 5.314G         | 14   | 5.268G         | 15   | 5.537G         | 16   | 5.380G         |
| 17                                                    | 5.512G         | 18   | 5.281G         | 19   | 5.309G         | 20   | 5.595G         |
| 21                                                    | 5.559G         | 22   | 5.344G         | 23   | 5.662G         | 24   | 5.637G         |
| 25                                                    | 5.700G         | 26   | 5.386G         | 27   | 5.609G         | 28   | 5.704G         |
| 29                                                    | 5.376G         | 30   | 5.258G         | 31   | 5.318G         | 32   | 5.370G         |
| 33                                                    | 5.469G         | 34   | 5.586G         | 35   | 5.561G         | 36   | 5.402G         |
| 37                                                    | 5.429G         | 38   | 5.414G         | 39   | 5.406G         | 40   | 5.340G         |
| 41                                                    | 5.578G         | 42   | 5.443G         | 43   | 5.668G         | 44   | 5.564G         |
| 45                                                    | 5.361G         | 46   | 5.324G         | 47   | 5.418G         | 48   | 5.532G         |
| 49                                                    | 5.610G         | 50   | 5.471G         | 51   | 5.493G         | 52   | 5.468G         |
| 53                                                    | 5.514G         | 54   | 5.552G         | 55   | 5.430G         | 56   | 5.287G         |
| 57                                                    | 5.521G         | 58   | 5.695G         | 59   | 5.298G         | 60   | 5.348G         |
| 61                                                    | 5.253G         | 62   | 5.452G         | 63   | 5.345G         | 64   | 5.548G         |
| 65                                                    | 5.496G         | 66   | 5.337G         | 67   | 5.494G         | 68   | 5.689G         |
| 69                                                    | 5.682G         | 70   | 5.529G         | 71   | 5.697G         | 72   | 5.582G         |
| 73                                                    | 5.463G         | 74   | 5.621G         | 75   | 5.690G         | 76   | 5.638G         |
| 77                                                    | 5.276G         | 78   | 5.291G         | 79   | 5.357G         | 80   | 5.501G         |
| 81                                                    | 5.572G         | 82   | 5.264G         | 83   | 5.641G         | 84   | 5.706G         |
| 85                                                    | 5.709G         | 86   | 5.277G         | 87   | 5.715G         | 88   | 5.289G         |
| 89                                                    | 5.293G         | 90   | 5.698G         | 91   | 5.423G         | 92   | 5.319G         |
| 93                                                    | 5.712G         | 94   | 5.676G         | 95   | 5.624G         | 96   | 5.659G         |
| 97                                                    | 5.392G         | 98   | 5.672G         | 99   | 5.410G         | 100  | 5.691G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_02 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.658G         | 2    | 5.548G         | 3    | 5.628G         | 4    | 5.337G         |
| 5                                                     | 5.361G         | 6    | 5.433G         | 7    | 5.575G         | 8    | 5.333G         |
| 9                                                     | 5.714G         | 10   | 5.545G         | 11   | 5.639G         | 12   | 5.520G         |
| 13                                                    | 5.320G         | 14   | 5.251G         | 15   | 5.288G         | 16   | 5.466G         |
| 17                                                    | 5.547G         | 18   | 5.660G         | 19   | 5.303G         | 20   | 5.498G         |
| 21                                                    | 5.369G         | 22   | 5.296G         | 23   | 5.388G         | 24   | 5.453G         |
| 25                                                    | 5.283G         | 26   | 5.597G         | 27   | 5.719G         | 28   | 5.579G         |
| 29                                                    | 5.297G         | 30   | 5.555G         | 31   | 5.668G         | 32   | 5.682G         |
| 33                                                    | 5.590G         | 34   | 5.405G         | 35   | 5.694G         | 36   | 5.439G         |
| 37                                                    | 5.566G         | 38   | 5.693G         | 39   | 5.581G         | 40   | 5.314G         |
| 41                                                    | 5.583G         | 42   | 5.446G         | 43   | 5.527G         | 44   | 5.551G         |
| 45                                                    | 5.371G         | 46   | 5.290G         | 47   | 5.571G         | 48   | 5.484G         |
| 49                                                    | 5.400G         | 50   | 5.292G         | 51   | 5.356G         | 52   | 5.463G         |
| 53                                                    | 5.289G         | 54   | 5.632G         | 55   | 5.353G         | 56   | 5.458G         |
| 57                                                    | 5.457G         | 58   | 5.260G         | 59   | 5.437G         | 60   | 5.476G         |
| 61                                                    | 5.299G         | 62   | 5.444G         | 63   | 5.705G         | 64   | 5.651G         |
| 65                                                    | 5.708G         | 66   | 5.291G         | 67   | 5.402G         | 68   | 5.543G         |
| 69                                                    | 5.318G         | 70   | 5.538G         | 71   | 5.441G         | 72   | 5.381G         |
| 73                                                    | 5.374G         | 74   | 5.506G         | 75   | 5.624G         | 76   | 5.565G         |
| 77                                                    | 5.544G         | 78   | 5.298G         | 79   | 5.486G         | 80   | 5.621G         |
| 81                                                    | 5.692G         | 82   | 5.295G         | 83   | 5.430G         | 84   | 5.306G         |
| 85                                                    | 5.493G         | 86   | 5.359G         | 87   | 5.254G         | 88   | 5.609G         |
| 89                                                    | 5.688G         | 90   | 5.534G         | 91   | 5.502G         | 92   | 5.315G         |
| 93                                                    | 5.670G         | 94   | 5.653G         | 95   | 5.557G         | 96   | 5.349G         |
| 97                                                    | 5.629G         | 98   | 5.524G         | 99   | 5.700G         | 100  | 5.386G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_03 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.522G         | 2    | 5.569G         | 3    | 5.286G         | 4    | 5.374G         |
| 5                                                     | 5.506G         | 6    | 5.566G         | 7    | 5.410G         | 8    | 5.449G         |
| 9                                                     | 5.674G         | 10   | 5.660G         | 11   | 5.654G         | 12   | 5.333G         |
| 13                                                    | 5.285G         | 14   | 5.710G         | 15   | 5.606G         | 16   | 5.649G         |
| 17                                                    | 5.708G         | 18   | 5.460G         | 19   | 5.508G         | 20   | 5.281G         |
| 21                                                    | 5.263G         | 22   | 5.459G         | 23   | 5.385G         | 24   | 5.345G         |
| 25                                                    | 5.562G         | 26   | 5.305G         | 27   | 5.429G         | 28   | 5.619G         |
| 29                                                    | 5.723G         | 30   | 5.620G         | 31   | 5.362G         | 32   | 5.573G         |
| 33                                                    | 5.456G         | 34   | 5.367G         | 35   | 5.266G         | 36   | 5.565G         |
| 37                                                    | 5.477G         | 38   | 5.629G         | 39   | 5.447G         | 40   | 5.700G         |
| 41                                                    | 5.387G         | 42   | 5.513G         | 43   | 5.346G         | 44   | 5.527G         |
| 45                                                    | 5.577G         | 46   | 5.468G         | 47   | 5.602G         | 48   | 5.375G         |
| 49                                                    | 5.274G         | 50   | 5.534G         | 51   | 5.336G         | 52   | 5.574G         |
| 53                                                    | 5.612G         | 54   | 5.254G         | 55   | 5.621G         | 56   | 5.716G         |
| 57                                                    | 5.613G         | 58   | 5.556G         | 59   | 5.646G         | 60   | 5.523G         |
| 61                                                    | 5.706G         | 62   | 5.627G         | 63   | 5.640G         | 64   | 5.353G         |
| 65                                                    | 5.409G         | 66   | 5.280G         | 67   | 5.501G         | 68   | 5.592G         |
| 69                                                    | 5.712G         | 70   | 5.518G         | 71   | 5.547G         | 72   | 5.548G         |
| 73                                                    | 5.258G         | 74   | 5.351G         | 75   | 5.587G         | 76   | 5.330G         |
| 77                                                    | 5.304G         | 78   | 5.262G         | 79   | 5.484G         | 80   | 5.678G         |
| 81                                                    | 5.647G         | 82   | 5.667G         | 83   | 5.469G         | 84   | 5.458G         |
| 85                                                    | 5.724G         | 86   | 5.526G         | 87   | 5.662G         | 88   | 5.255G         |
| 89                                                    | 5.683G         | 90   | 5.322G         | 91   | 5.308G         | 92   | 5.704G         |
| 93                                                    | 5.490G         | 94   | 5.328G         | 95   | 5.418G         | 96   | 5.252G         |
| 97                                                    | 5.435G         | 98   | 5.337G         | 99   | 5.536G         | 100  | 5.302G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_04 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.359G         | 2    | 5.315G         | 3    | 5.600G         | 4    | 5.443G         |
| 5                                                     | 5.490G         | 6    | 5.564G         | 7    | 5.670G         | 8    | 5.594G         |
| 9                                                     | 5.446G         | 10   | 5.696G         | 11   | 5.599G         | 12   | 5.251G         |
| 13                                                    | 5.722G         | 14   | 5.313G         | 15   | 5.583G         | 16   | 5.493G         |
| 17                                                    | 5.596G         | 18   | 5.331G         | 19   | 5.683G         | 20   | 5.253G         |
| 21                                                    | 5.386G         | 22   | 5.709G         | 23   | 5.283G         | 24   | 5.661G         |
| 25                                                    | 5.540G         | 26   | 5.355G         | 27   | 5.280G         | 28   | 5.704G         |
| 29                                                    | 5.495G         | 30   | 5.427G         | 31   | 5.595G         | 32   | 5.667G         |
| 33                                                    | 5.501G         | 34   | 5.263G         | 35   | 5.552G         | 36   | 5.570G         |
| 37                                                    | 5.666G         | 38   | 5.325G         | 39   | 5.414G         | 40   | 5.430G         |
| 41                                                    | 5.373G         | 42   | 5.510G         | 43   | 5.440G         | 44   | 5.469G         |
| 45                                                    | 5.428G         | 46   | 5.592G         | 47   | 5.381G         | 48   | 5.364G         |
| 49                                                    | 5.361G         | 50   | 5.633G         | 51   | 5.458G         | 52   | 5.346G         |
| 53                                                    | 5.645G         | 54   | 5.679G         | 55   | 5.279G         | 56   | 5.308G         |
| 57                                                    | 5.603G         | 58   | 5.382G         | 59   | 5.269G         | 60   | 5.619G         |
| 61                                                    | 5.462G         | 62   | 5.516G         | 63   | 5.404G         | 64   | 5.492G         |
| 65                                                    | 5.602G         | 66   | 5.365G         | 67   | 5.657G         | 68   | 5.439G         |
| 69                                                    | 5.581G         | 70   | 5.551G         | 71   | 5.573G         | 72   | 5.388G         |
| 73                                                    | 5.500G         | 74   | 5.539G         | 75   | 5.598G         | 76   | 5.374G         |
| 77                                                    | 5.578G         | 78   | 5.514G         | 79   | 5.641G         | 80   | 5.408G         |
| 81                                                    | 5.537G         | 82   | 5.392G         | 83   | 5.580G         | 84   | 5.456G         |
| 85                                                    | 5.424G         | 86   | 5.257G         | 87   | 5.385G         | 88   | 5.328G         |
| 89                                                    | 5.379G         | 90   | 5.282G         | 91   | 5.435G         | 92   | 5.533G         |
| 93                                                    | 5.467G         | 94   | 5.639G         | 95   | 5.324G         | 96   | 5.547G         |
| 97                                                    | 5.426G         | 98   | 5.723G         | 99   | 5.334G         | 100  | 5.614G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_05 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.544G         | 2    | 5.411G         | 3    | 5.674G         | 4    | 5.342G         |
| 5                                                     | 5.419G         | 6    | 5.673G         | 7    | 5.520G         | 8    | 5.492G         |
| 9                                                     | 5.666G         | 10   | 5.354G         | 11   | 5.595G         | 12   | 5.256G         |
| 13                                                    | 5.381G         | 14   | 5.561G         | 15   | 5.298G         | 16   | 5.306G         |
| 17                                                    | 5.644G         | 18   | 5.385G         | 19   | 5.628G         | 20   | 5.533G         |
| 21                                                    | 5.390G         | 22   | 5.384G         | 23   | 5.716G         | 24   | 5.545G         |
| 25                                                    | 5.647G         | 26   | 5.278G         | 27   | 5.621G         | 28   | 5.321G         |
| 29                                                    | 5.456G         | 30   | 5.352G         | 31   | 5.320G         | 32   | 5.427G         |
| 33                                                    | 5.315G         | 34   | 5.476G         | 35   | 5.550G         | 36   | 5.576G         |
| 37                                                    | 5.418G         | 38   | 5.594G         | 39   | 5.529G         | 40   | 5.705G         |
| 41                                                    | 5.266G         | 42   | 5.465G         | 43   | 5.297G         | 44   | 5.537G         |
| 45                                                    | 5.680G         | 46   | 5.522G         | 47   | 5.648G         | 48   | 5.568G         |
| 49                                                    | 5.636G         | 50   | 5.290G         | 51   | 5.491G         | 52   | 5.424G         |
| 53                                                    | 5.631G         | 54   | 5.295G         | 55   | 5.405G         | 56   | 5.686G         |
| 57                                                    | 5.325G         | 58   | 5.535G         | 59   | 5.707G         | 60   | 5.359G         |
| 61                                                    | 5.469G         | 62   | 5.580G         | 63   | 5.319G         | 64   | 5.711G         |
| 65                                                    | 5.335G         | 66   | 5.527G         | 67   | 5.590G         | 68   | 5.407G         |
| 69                                                    | 5.703G         | 70   | 5.547G         | 71   | 5.393G         | 72   | 5.552G         |
| 73                                                    | 5.689G         | 74   | 5.337G         | 75   | 5.279G         | 76   | 5.499G         |
| 77                                                    | 5.484G         | 78   | 5.569G         | 79   | 5.656G         | 80   | 5.414G         |
| 81                                                    | 5.277G         | 82   | 5.438G         | 83   | 5.463G         | 84   | 5.669G         |
| 85                                                    | 5.625G         | 86   | 5.719G         | 87   | 5.593G         | 88   | 5.515G         |
| 89                                                    | 5.369G         | 90   | 5.720G         | 91   | 5.565G         | 92   | 5.617G         |
| 93                                                    | 5.660G         | 94   | 5.350G         | 95   | 5.513G         | 96   | 5.349G         |
| 97                                                    | 5.285G         | 98   | 5.603G         | 99   | 5.274G         | 100  | 5.339G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_06 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.467G         | 2    | 5.384G         | 3    | 5.677G         | 4    | 5.720G         |
| 5                                                     | 5.479G         | 6    | 5.632G         | 7    | 5.698G         | 8    | 5.550G         |
| 9                                                     | 5.253G         | 10   | 5.275G         | 11   | 5.308G         | 12   | 5.584G         |
| 13                                                    | 5.671G         | 14   | 5.517G         | 15   | 5.370G         | 16   | 5.623G         |
| 17                                                    | 5.607G         | 18   | 5.689G         | 19   | 5.621G         | 20   | 5.330G         |
| 21                                                    | 5.254G         | 22   | 5.458G         | 23   | 5.300G         | 24   | 5.373G         |
| 25                                                    | 5.270G         | 26   | 5.585G         | 27   | 5.492G         | 28   | 5.508G         |
| 29                                                    | 5.462G         | 30   | 5.484G         | 31   | 5.691G         | 32   | 5.552G         |
| 33                                                    | 5.497G         | 34   | 5.252G         | 35   | 5.407G         | 36   | 5.357G         |
| 37                                                    | 5.596G         | 38   | 5.631G         | 39   | 5.307G         | 40   | 5.454G         |
| 41                                                    | 5.510G         | 42   | 5.593G         | 43   | 5.322G         | 44   | 5.288G         |
| 45                                                    | 5.418G         | 46   | 5.318G         | 47   | 5.518G         | 48   | 5.715G         |
| 49                                                    | 5.411G         | 50   | 5.426G         | 51   | 5.604G         | 52   | 5.542G         |
| 53                                                    | 5.569G         | 54   | 5.284G         | 55   | 5.287G         | 56   | 5.324G         |
| 57                                                    | 5.643G         | 58   | 5.250G         | 59   | 5.362G         | 60   | 5.599G         |
| 61                                                    | 5.554G         | 62   | 5.648G         | 63   | 5.268G         | 64   | 5.659G         |
| 65                                                    | 5.310G         | 66   | 5.545G         | 67   | 5.309G         | 68   | 5.388G         |
| 69                                                    | 5.706G         | 70   | 5.468G         | 71   | 5.345G         | 72   | 5.372G         |
| 73                                                    | 5.721G         | 74   | 5.475G         | 75   | 5.361G         | 76   | 5.446G         |
| 77                                                    | 5.537G         | 78   | 5.606G         | 79   | 5.629G         | 80   | 5.389G         |
| 81                                                    | 5.649G         | 82   | 5.399G         | 83   | 5.647G         | 84   | 5.652G         |
| 85                                                    | 5.722G         | 86   | 5.683G         | 87   | 5.562G         | 88   | 5.265G         |
| 89                                                    | 5.481G         | 90   | 5.577G         | 91   | 5.262G         | 92   | 5.486G         |
| 93                                                    | 5.678G         | 94   | 5.549G         | 95   | 5.676G         | 96   | 5.630G         |
| 97                                                    | 5.439G         | 98   | 5.494G         | 99   | 5.653G         | 100  | 5.501G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_07 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.317G         | 2    | 5.703G         | 3    | 5.430G         | 4    | 5.426G         |
| 5                                                     | 5.388G         | 6    | 5.665G         | 7    | 5.371G         | 8    | 5.627G         |
| 9                                                     | 5.636G         | 10   | 5.329G         | 11   | 5.570G         | 12   | 5.403G         |
| 13                                                    | 5.266G         | 14   | 5.262G         | 15   | 5.700G         | 16   | 5.418G         |
| 17                                                    | 5.584G         | 18   | 5.666G         | 19   | 5.361G         | 20   | 5.659G         |
| 21                                                    | 5.363G         | 22   | 5.563G         | 23   | 5.568G         | 24   | 5.533G         |
| 25                                                    | 5.335G         | 26   | 5.281G         | 27   | 5.253G         | 28   | 5.473G         |
| 29                                                    | 5.571G         | 30   | 5.333G         | 31   | 5.524G         | 32   | 5.619G         |
| 33                                                    | 5.443G         | 34   | 5.622G         | 35   | 5.544G         | 36   | 5.588G         |
| 37                                                    | 5.370G         | 38   | 5.672G         | 39   | 5.642G         | 40   | 5.490G         |
| 41                                                    | 5.710G         | 42   | 5.691G         | 43   | 5.330G         | 44   | 5.311G         |
| 45                                                    | 5.654G         | 46   | 5.512G         | 47   | 5.674G         | 48   | 5.543G         |
| 49                                                    | 5.644G         | 50   | 5.383G         | 51   | 5.325G         | 52   | 5.591G         |
| 53                                                    | 5.308G         | 54   | 5.514G         | 55   | 5.386G         | 56   | 5.267G         |
| 57                                                    | 5.587G         | 58   | 5.328G         | 59   | 5.658G         | 60   | 5.359G         |
| 61                                                    | 5.316G         | 62   | 5.685G         | 63   | 5.551G         | 64   | 5.558G         |
| 65                                                    | 5.617G         | 66   | 5.639G         | 67   | 5.295G         | 68   | 5.280G         |
| 69                                                    | 5.483G         | 70   | 5.717G         | 71   | 5.500G         | 72   | 5.695G         |
| 73                                                    | 5.625G         | 74   | 5.493G         | 75   | 5.681G         | 76   | 5.441G         |
| 77                                                    | 5.640G         | 78   | 5.337G         | 79   | 5.582G         | 80   | 5.601G         |
| 81                                                    | 5.336G         | 82   | 5.714G         | 83   | 5.327G         | 84   | 5.362G         |
| 85                                                    | 5.722G         | 86   | 5.380G         | 87   | 5.252G         | 88   | 5.274G         |
| 89                                                    | 5.554G         | 90   | 5.534G         | 91   | 5.696G         | 92   | 5.486G         |
| 93                                                    | 5.256G         | 94   | 5.682G         | 95   | 5.452G         | 96   | 5.553G         |
| 97                                                    | 5.595G         | 98   | 5.699G         | 99   | 5.382G         | 100  | 5.508G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_08 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.279G         | 2    | 5.417G         | 3    | 5.366G         | 4    | 5.320G         |
| 5                                                     | 5.504G         | 6    | 5.450G         | 7    | 5.521G         | 8    | 5.309G         |
| 9                                                     | 5.292G         | 10   | 5.431G         | 11   | 5.254G         | 12   | 5.264G         |
| 13                                                    | 5.486G         | 14   | 5.541G         | 15   | 5.361G         | 16   | 5.327G         |
| 17                                                    | 5.664G         | 18   | 5.587G         | 19   | 5.358G         | 20   | 5.448G         |
| 21                                                    | 5.588G         | 22   | 5.684G         | 23   | 5.680G         | 24   | 5.489G         |
| 25                                                    | 5.709G         | 26   | 5.582G         | 27   | 5.567G         | 28   | 5.369G         |
| 29                                                    | 5.377G         | 30   | 5.694G         | 31   | 5.257G         | 32   | 5.600G         |
| 33                                                    | 5.313G         | 34   | 5.442G         | 35   | 5.638G         | 36   | 5.618G         |
| 37                                                    | 5.673G         | 38   | 5.715G         | 39   | 5.389G         | 40   | 5.281G         |
| 41                                                    | 5.572G         | 42   | 5.296G         | 43   | 5.394G         | 44   | 5.444G         |
| 45                                                    | 5.362G         | 46   | 5.282G         | 47   | 5.376G         | 48   | 5.700G         |
| 49                                                    | 5.500G         | 50   | 5.497G         | 51   | 5.564G         | 52   | 5.476G         |
| 53                                                    | 5.711G         | 54   | 5.530G         | 55   | 5.293G         | 56   | 5.334G         |
| 57                                                    | 5.712G         | 58   | 5.668G         | 59   | 5.672G         | 60   | 5.558G         |
| 61                                                    | 5.488G         | 62   | 5.328G         | 63   | 5.524G         | 64   | 5.436G         |
| 65                                                    | 5.501G         | 66   | 5.388G         | 67   | 5.270G         | 68   | 5.446G         |
| 69                                                    | 5.432G         | 70   | 5.465G         | 71   | 5.348G         | 72   | 5.312G         |
| 73                                                    | 5.705G         | 74   | 5.462G         | 75   | 5.555G         | 76   | 5.650G         |
| 77                                                    | 5.329G         | 78   | 5.710G         | 79   | 5.316G         | 80   | 5.401G         |
| 81                                                    | 5.375G         | 82   | 5.449G         | 83   | 5.671G         | 84   | 5.345G         |
| 85                                                    | 5.330G         | 86   | 5.581G         | 87   | 5.627G         | 88   | 5.601G         |
| 89                                                    | 5.682G         | 90   | 5.534G         | 91   | 5.402G         | 92   | 5.385G         |
| 93                                                    | 5.663G         | 94   | 5.606G         | 95   | 5.322G         | 96   | 5.525G         |
| 97                                                    | 5.506G         | 98   | 5.359G         | 99   | 5.291G         | 100  | 5.713G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_09 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.398G         | 2    | 5.294G         | 3    | 5.490G         | 4    | 5.354G         |
| 5                                                     | 5.623G         | 6    | 5.339G         | 7    | 5.624G         | 8    | 5.502G         |
| 9                                                     | 5.379G         | 10   | 5.698G         | 11   | 5.454G         | 12   | 5.260G         |
| 13                                                    | 5.255G         | 14   | 5.629G         | 15   | 5.325G         | 16   | 5.691G         |
| 17                                                    | 5.664G         | 18   | 5.659G         | 19   | 5.498G         | 20   | 5.365G         |
| 21                                                    | 5.662G         | 22   | 5.530G         | 23   | 5.408G         | 24   | 5.254G         |
| 25                                                    | 5.300G         | 26   | 5.392G         | 27   | 5.540G         | 28   | 5.644G         |
| 29                                                    | 5.481G         | 30   | 5.460G         | 31   | 5.304G         | 32   | 5.719G         |
| 33                                                    | 5.473G         | 34   | 5.529G         | 35   | 5.682G         | 36   | 5.667G         |
| 37                                                    | 5.395G         | 38   | 5.393G         | 39   | 5.597G         | 40   | 5.710G         |
| 41                                                    | 5.723G         | 42   | 5.559G         | 43   | 5.372G         | 44   | 5.517G         |
| 45                                                    | 5.272G         | 46   | 5.438G         | 47   | 5.343G         | 48   | 5.678G         |
| 49                                                    | 5.330G         | 50   | 5.567G         | 51   | 5.680G         | 52   | 5.671G         |
| 53                                                    | 5.613G         | 54   | 5.686G         | 55   | 5.484G         | 56   | 5.396G         |
| 57                                                    | 5.380G         | 58   | 5.676G         | 59   | 5.535G         | 60   | 5.651G         |
| 61                                                    | 5.500G         | 62   | 5.276G         | 63   | 5.444G         | 64   | 5.625G         |
| 65                                                    | 5.285G         | 66   | 5.324G         | 67   | 5.329G         | 68   | 5.465G         |
| 69                                                    | 5.485G         | 70   | 5.555G         | 71   | 5.331G         | 72   | 5.419G         |
| 73                                                    | 5.317G         | 74   | 5.598G         | 75   | 5.400G         | 76   | 5.390G         |
| 77                                                    | 5.522G         | 78   | 5.335G         | 79   | 5.336G         | 80   | 5.371G         |
| 81                                                    | 5.675G         | 82   | 5.291G         | 83   | 5.334G         | 84   | 5.305G         |
| 85                                                    | 5.687G         | 86   | 5.374G         | 87   | 5.700G         | 88   | 5.621G         |
| 89                                                    | 5.467G         | 90   | 5.386G         | 91   | 5.546G         | 92   | 5.611G         |
| 93                                                    | 5.639G         | 94   | 5.322G         | 95   | 5.568G         | 96   | 5.580G         |
| 97                                                    | 5.341G         | 98   | 5.259G         | 99   | 5.572G         | 100  | 5.702G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_10 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.359G         | 2    | 5.273G         | 3    | 5.322G         | 4    | 5.682G         |
| 5                                                     | 5.582G         | 6    | 5.479G         | 7    | 5.390G         | 8    | 5.716G         |
| 9                                                     | 5.522G         | 10   | 5.378G         | 11   | 5.341G         | 12   | 5.666G         |
| 13                                                    | 5.326G         | 14   | 5.296G         | 15   | 5.344G         | 16   | 5.459G         |
| 17                                                    | 5.498G         | 18   | 5.393G         | 19   | 5.554G         | 20   | 5.427G         |
| 21                                                    | 5.596G         | 22   | 5.540G         | 23   | 5.431G         | 24   | 5.600G         |
| 25                                                    | 5.419G         | 26   | 5.530G         | 27   | 5.403G         | 28   | 5.254G         |
| 29                                                    | 5.601G         | 30   | 5.687G         | 31   | 5.338G         | 32   | 5.702G         |
| 33                                                    | 5.413G         | 34   | 5.526G         | 35   | 5.699G         | 36   | 5.520G         |
| 37                                                    | 5.321G         | 38   | 5.262G         | 39   | 5.470G         | 40   | 5.606G         |
| 41                                                    | 5.285G         | 42   | 5.412G         | 43   | 5.722G         | 44   | 5.609G         |
| 45                                                    | 5.615G         | 46   | 5.490G         | 47   | 5.434G         | 48   | 5.271G         |
| 49                                                    | 5.688G         | 50   | 5.566G         | 51   | 5.392G         | 52   | 5.302G         |
| 53                                                    | 5.573G         | 54   | 5.367G         | 55   | 5.684G         | 56   | 5.328G         |
| 57                                                    | 5.425G         | 58   | 5.320G         | 59   | 5.579G         | 60   | 5.602G         |
| 61                                                    | 5.380G         | 62   | 5.670G         | 63   | 5.574G         | 64   | 5.365G         |
| 65                                                    | 5.539G         | 66   | 5.260G         | 67   | 5.583G         | 68   | 5.667G         |
| 69                                                    | 5.689G         | 70   | 5.692G         | 71   | 5.564G         | 72   | 5.319G         |
| 73                                                    | 5.580G         | 74   | 5.286G         | 75   | 5.349G         | 76   | 5.495G         |
| 77                                                    | 5.575G         | 78   | 5.531G         | 79   | 5.251G         | 80   | 5.694G         |
| 81                                                    | 5.584G         | 82   | 5.710G         | 83   | 5.379G         | 84   | 5.706G         |
| 85                                                    | 5.641G         | 86   | 5.517G         | 87   | 5.489G         | 88   | 5.436G         |
| 89                                                    | 5.546G         | 90   | 5.673G         | 91   | 5.476G         | 92   | 5.377G         |
| 93                                                    | 5.518G         | 94   | 5.631G         | 95   | 5.473G         | 96   | 5.315G         |
| 97                                                    | 5.267G         | 98   | 5.550G         | 99   | 5.386G         | 100  | 5.642G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_11 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.437G         | 2    | 5.412G         | 3    | 5.260G         | 4    | 5.485G         |
| 5                                                     | 5.700G         | 6    | 5.648G         | 7    | 5.602G         | 8    | 5.623G         |
| 9                                                     | 5.566G         | 10   | 5.503G         | 11   | 5.433G         | 12   | 5.665G         |
| 13                                                    | 5.323G         | 14   | 5.613G         | 15   | 5.686G         | 16   | 5.642G         |
| 17                                                    | 5.320G         | 18   | 5.270G         | 19   | 5.441G         | 20   | 5.596G         |
| 21                                                    | 5.393G         | 22   | 5.651G         | 23   | 5.386G         | 24   | 5.679G         |
| 25                                                    | 5.302G         | 26   | 5.601G         | 27   | 5.555G         | 28   | 5.644G         |
| 29                                                    | 5.677G         | 30   | 5.507G         | 31   | 5.415G         | 32   | 5.389G         |
| 33                                                    | 5.348G         | 34   | 5.634G         | 35   | 5.452G         | 36   | 5.687G         |
| 37                                                    | 5.682G         | 38   | 5.469G         | 39   | 5.579G         | 40   | 5.661G         |
| 41                                                    | 5.448G         | 42   | 5.410G         | 43   | 5.427G         | 44   | 5.358G         |
| 45                                                    | 5.301G         | 46   | 5.253G         | 47   | 5.675G         | 48   | 5.288G         |
| 49                                                    | 5.325G         | 50   | 5.519G         | 51   | 5.538G         | 52   | 5.697G         |
| 53                                                    | 5.361G         | 54   | 5.641G         | 55   | 5.546G         | 56   | 5.517G         |
| 57                                                    | 5.331G         | 58   | 5.513G         | 59   | 5.460G         | 60   | 5.321G         |
| 61                                                    | 5.286G         | 62   | 5.653G         | 63   | 5.693G         | 64   | 5.678G         |
| 65                                                    | 5.402G         | 66   | 5.568G         | 67   | 5.492G         | 68   | 5.423G         |
| 69                                                    | 5.322G         | 70   | 5.372G         | 71   | 5.628G         | 72   | 5.627G         |
| 73                                                    | 5.581G         | 74   | 5.488G         | 75   | 5.315G         | 76   | 5.585G         |
| 77                                                    | 5.368G         | 78   | 5.375G         | 79   | 5.667G         | 80   | 5.530G         |
| 81                                                    | 5.545G         | 82   | 5.685G         | 83   | 5.454G         | 84   | 5.695G         |
| 85                                                    | 5.345G         | 86   | 5.521G         | 87   | 5.495G         | 88   | 5.475G         |
| 89                                                    | 5.466G         | 90   | 5.486G         | 91   | 5.391G         | 92   | 5.590G         |
| 93                                                    | 5.614G         | 94   | 5.537G         | 95   | 5.706G         | 96   | 5.327G         |
| 97                                                    | 5.440G         | 98   | 5.522G         | 99   | 5.684G         | 100  | 5.387G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_12 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.394G         | 2    | 5.460G         | 3    | 5.593G         | 4    | 5.325G         |
| 5                                                     | 5.561G         | 6    | 5.520G         | 7    | 5.327G         | 8    | 5.573G         |
| 9                                                     | 5.517G         | 10   | 5.287G         | 11   | 5.649G         | 12   | 5.254G         |
| 13                                                    | 5.567G         | 14   | 5.587G         | 15   | 5.637G         | 16   | 5.663G         |
| 17                                                    | 5.299G         | 18   | 5.462G         | 19   | 5.524G         | 20   | 5.418G         |
| 21                                                    | 5.616G         | 22   | 5.321G         | 23   | 5.605G         | 24   | 5.300G         |
| 25                                                    | 5.268G         | 26   | 5.540G         | 27   | 5.406G         | 28   | 5.611G         |
| 29                                                    | 5.414G         | 30   | 5.480G         | 31   | 5.309G         | 32   | 5.681G         |
| 33                                                    | 5.492G         | 34   | 5.497G         | 35   | 5.643G         | 36   | 5.565G         |
| 37                                                    | 5.539G         | 38   | 5.250G         | 39   | 5.668G         | 40   | 5.568G         |
| 41                                                    | 5.585G         | 42   | 5.588G         | 43   | 5.269G         | 44   | 5.310G         |
| 45                                                    | 5.338G         | 46   | 5.675G         | 47   | 5.271G         | 48   | 5.353G         |
| 49                                                    | 5.625G         | 50   | 5.537G         | 51   | 5.345G         | 52   | 5.417G         |
| 53                                                    | 5.670G         | 54   | 5.583G         | 55   | 5.476G         | 56   | 5.598G         |
| 57                                                    | 5.389G         | 58   | 5.351G         | 59   | 5.709G         | 60   | 5.356G         |
| 61                                                    | 5.469G         | 62   | 5.656G         | 63   | 5.478G         | 64   | 5.431G         |
| 65                                                    | 5.429G         | 66   | 5.307G         | 67   | 5.369G         | 68   | 5.722G         |
| 69                                                    | 5.529G         | 70   | 5.487G         | 71   | 5.613G         | 72   | 5.575G         |
| 73                                                    | 5.445G         | 74   | 5.428G         | 75   | 5.305G         | 76   | 5.706G         |
| 77                                                    | 5.452G         | 78   | 5.633G         | 79   | 5.614G         | 80   | 5.408G         |
| 81                                                    | 5.563G         | 82   | 5.592G         | 83   | 5.381G         | 84   | 5.514G         |
| 85                                                    | 5.471G         | 86   | 5.511G         | 87   | 5.578G         | 88   | 5.337G         |
| 89                                                    | 5.653G         | 90   | 5.695G         | 91   | 5.569G         | 92   | 5.289G         |
| 93                                                    | 5.363G         | 94   | 5.674G         | 95   | 5.584G         | 96   | 5.354G         |
| 97                                                    | 5.642G         | 98   | 5.503G         | 99   | 5.612G         | 100  | 5.550G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_13 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.472G         | 2    | 5.372G         | 3    | 5.431G         | 4    | 5.509G         |
| 5                                                     | 5.331G         | 6    | 5.444G         | 7    | 5.441G         | 8    | 5.590G         |
| 9                                                     | 5.309G         | 10   | 5.379G         | 11   | 5.320G         | 12   | 5.460G         |
| 13                                                    | 5.325G         | 14   | 5.713G         | 15   | 5.664G         | 16   | 5.356G         |
| 17                                                    | 5.559G         | 18   | 5.353G         | 19   | 5.440G         | 20   | 5.267G         |
| 21                                                    | 5.533G         | 22   | 5.596G         | 23   | 5.367G         | 24   | 5.691G         |
| 25                                                    | 5.269G         | 26   | 5.482G         | 27   | 5.519G         | 28   | 5.315G         |
| 29                                                    | 5.654G         | 30   | 5.352G         | 31   | 5.458G         | 32   | 5.665G         |
| 33                                                    | 5.711G         | 34   | 5.406G         | 35   | 5.514G         | 36   | 5.388G         |
| 37                                                    | 5.624G         | 38   | 5.502G         | 39   | 5.539G         | 40   | 5.701G         |
| 41                                                    | 5.448G         | 42   | 5.708G         | 43   | 5.675G         | 44   | 5.408G         |
| 45                                                    | 5.414G         | 46   | 5.337G         | 47   | 5.384G         | 48   | 5.257G         |
| 49                                                    | 5.682G         | 50   | 5.698G         | 51   | 5.347G         | 52   | 5.607G         |
| 53                                                    | 5.422G         | 54   | 5.628G         | 55   | 5.364G         | 56   | 5.681G         |
| 57                                                    | 5.593G         | 58   | 5.317G         | 59   | 5.297G         | 60   | 5.281G         |
| 61                                                    | 5.428G         | 62   | 5.254G         | 63   | 5.491G         | 64   | 5.535G         |
| 65                                                    | 5.721G         | 66   | 5.339G         | 67   | 5.663G         | 68   | 5.354G         |
| 69                                                    | 5.695G         | 70   | 5.255G         | 71   | 5.536G         | 72   | 5.673G         |
| 73                                                    | 5.427G         | 74   | 5.289G         | 75   | 5.429G         | 76   | 5.699G         |
| 77                                                    | 5.668G         | 78   | 5.679G         | 79   | 5.330G         | 80   | 5.709G         |
| 81                                                    | 5.552G         | 82   | 5.439G         | 83   | 5.560G         | 84   | 5.492G         |
| 85                                                    | 5.375G         | 86   | 5.457G         | 87   | 5.543G         | 88   | 5.511G         |
| 89                                                    | 5.498G         | 90   | 5.605G         | 91   | 5.485G         | 92   | 5.620G         |
| 93                                                    | 5.551G         | 94   | 5.493G         | 95   | 5.477G         | 96   | 5.627G         |
| 97                                                    | 5.696G         | 98   | 5.293G         | 99   | 5.571G         | 100  | 5.542G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_14 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.429G         | 2    | 5.540G         | 3    | 5.654G         | 4    | 5.554G         |
| 5                                                     | 5.278G         | 6    | 5.634G         | 7    | 5.719G         | 8    | 5.476G         |
| 9                                                     | 5.439G         | 10   | 5.664G         | 11   | 5.332G         | 12   | 5.395G         |
| 13                                                    | 5.581G         | 14   | 5.402G         | 15   | 5.580G         | 16   | 5.551G         |
| 17                                                    | 5.604G         | 18   | 5.466G         | 19   | 5.488G         | 20   | 5.534G         |
| 21                                                    | 5.387G         | 22   | 5.609G         | 23   | 5.588G         | 24   | 5.286G         |
| 25                                                    | 5.619G         | 26   | 5.281G         | 27   | 5.359G         | 28   | 5.553G         |
| 29                                                    | 5.535G         | 30   | 5.418G         | 31   | 5.406G         | 32   | 5.494G         |
| 33                                                    | 5.360G         | 34   | 5.716G         | 35   | 5.487G         | 36   | 5.503G         |
| 37                                                    | 5.409G         | 38   | 5.309G         | 39   | 5.422G         | 40   | 5.400G         |
| 41                                                    | 5.304G         | 42   | 5.396G         | 43   | 5.276G         | 44   | 5.474G         |
| 45                                                    | 5.434G         | 46   | 5.426G         | 47   | 5.353G         | 48   | 5.704G         |
| 49                                                    | 5.280G         | 50   | 5.686G         | 51   | 5.678G         | 52   | 5.458G         |
| 53                                                    | 5.358G         | 54   | 5.642G         | 55   | 5.620G         | 56   | 5.348G         |
| 57                                                    | 5.277G         | 58   | 5.250G         | 59   | 5.607G         | 60   | 5.703G         |
| 61                                                    | 5.454G         | 62   | 5.514G         | 63   | 5.572G         | 64   | 5.508G         |
| 65                                                    | 5.500G         | 66   | 5.346G         | 67   | 5.611G         | 68   | 5.373G         |
| 69                                                    | 5.643G         | 70   | 5.486G         | 71   | 5.645G         | 72   | 5.707G         |
| 73                                                    | 5.323G         | 74   | 5.388G         | 75   | 5.550G         | 76   | 5.303G         |
| 77                                                    | 5.657G         | 78   | 5.571G         | 79   | 5.378G         | 80   | 5.544G         |
| 81                                                    | 5.706G         | 82   | 5.441G         | 83   | 5.269G         | 84   | 5.519G         |
| 85                                                    | 5.590G         | 86   | 5.416G         | 87   | 5.368G         | 88   | 5.334G         |
| 89                                                    | 5.328G         | 90   | 5.624G         | 91   | 5.542G         | 92   | 5.306G         |
| 93                                                    | 5.444G         | 94   | 5.517G         | 95   | 5.471G         | 96   | 5.516G         |
| 97                                                    | 5.610G         | 98   | 5.546G         | 99   | 5.366G         | 100  | 5.344G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_15 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.301G         | 2    | 5.431G         | 3    | 5.644G         | 4    | 5.389G         |
| 5                                                     | 5.529G         | 6    | 5.706G         | 7    | 5.495G         | 8    | 5.454G         |
| 9                                                     | 5.461G         | 10   | 5.304G         | 11   | 5.590G         | 12   | 5.649G         |
| 13                                                    | 5.625G         | 14   | 5.651G         | 15   | 5.398G         | 16   | 5.297G         |
| 17                                                    | 5.269G         | 18   | 5.570G         | 19   | 5.722G         | 20   | 5.562G         |
| 21                                                    | 5.259G         | 22   | 5.481G         | 23   | 5.254G         | 24   | 5.539G         |
| 25                                                    | 5.380G         | 26   | 5.441G         | 27   | 5.621G         | 28   | 5.561G         |
| 29                                                    | 5.583G         | 30   | 5.467G         | 31   | 5.273G         | 32   | 5.315G         |
| 33                                                    | 5.270G         | 34   | 5.682G         | 35   | 5.387G         | 36   | 5.656G         |
| 37                                                    | 5.538G         | 38   | 5.316G         | 39   | 5.355G         | 40   | 5.579G         |
| 41                                                    | 5.412G         | 42   | 5.588G         | 43   | 5.310G         | 44   | 5.512G         |
| 45                                                    | 5.251G         | 46   | 5.691G         | 47   | 5.392G         | 48   | 5.527G         |
| 49                                                    | 5.252G         | 50   | 5.437G         | 51   | 5.265G         | 52   | 5.338G         |
| 53                                                    | 5.556G         | 54   | 5.348G         | 55   | 5.299G         | 56   | 5.489G         |
| 57                                                    | 5.470G         | 58   | 5.560G         | 59   | 5.518G         | 60   | 5.320G         |
| 61                                                    | 5.395G         | 62   | 5.705G         | 63   | 5.620G         | 64   | 5.360G         |
| 65                                                    | 5.499G         | 66   | 5.423G         | 67   | 5.547G         | 68   | 5.430G         |
| 69                                                    | 5.626G         | 70   | 5.657G         | 71   | 5.688G         | 72   | 5.471G         |
| 73                                                    | 5.634G         | 74   | 5.696G         | 75   | 5.477G         | 76   | 5.347G         |
| 77                                                    | 5.303G         | 78   | 5.460G         | 79   | 5.407G         | 80   | 5.604G         |
| 81                                                    | 5.599G         | 82   | 5.487G         | 83   | 5.577G         | 84   | 5.333G         |
| 85                                                    | 5.302G         | 86   | 5.260G         | 87   | 5.534G         | 88   | 5.463G         |
| 89                                                    | 5.637G         | 90   | 5.672G         | 91   | 5.551G         | 92   | 5.426G         |
| 93                                                    | 5.506G         | 94   | 5.450G         | 95   | 5.681G         | 96   | 5.458G         |
| 97                                                    | 5.405G         | 98   | 5.643G         | 99   | 5.339G         | 100  | 5.513G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_16 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.302G         | 2    | 5.414G         | 3    | 5.555G         | 4    | 5.445G         |
| 5                                                     | 5.289G         | 6    | 5.543G         | 7    | 5.712G         | 8    | 5.691G         |
| 9                                                     | 5.344G         | 10   | 5.692G         | 11   | 5.446G         | 12   | 5.633G         |
| 13                                                    | 5.614G         | 14   | 5.554G         | 15   | 5.601G         | 16   | 5.469G         |
| 17                                                    | 5.637G         | 18   | 5.611G         | 19   | 5.672G         | 20   | 5.334G         |
| 21                                                    | 5.708G         | 22   | 5.658G         | 23   | 5.560G         | 24   | 5.276G         |
| 25                                                    | 5.564G         | 26   | 5.480G         | 27   | 5.420G         | 28   | 5.676G         |
| 29                                                    | 5.598G         | 30   | 5.700G         | 31   | 5.552G         | 32   | 5.370G         |
| 33                                                    | 5.579G         | 34   | 5.675G         | 35   | 5.280G         | 36   | 5.640G         |
| 37                                                    | 5.451G         | 38   | 5.331G         | 39   | 5.256G         | 40   | 5.547G         |
| 41                                                    | 5.454G         | 42   | 5.403G         | 43   | 5.491G         | 44   | 5.335G         |
| 45                                                    | 5.434G         | 46   | 5.605G         | 47   | 5.705G         | 48   | 5.371G         |
| 49                                                    | 5.477G         | 50   | 5.399G         | 51   | 5.539G         | 52   | 5.518G         |
| 53                                                    | 5.423G         | 54   | 5.600G         | 55   | 5.313G         | 56   | 5.527G         |
| 57                                                    | 5.537G         | 58   | 5.648G         | 59   | 5.662G         | 60   | 5.470G         |
| 61                                                    | 5.575G         | 62   | 5.505G         | 63   | 5.510G         | 64   | 5.422G         |
| 65                                                    | 5.644G         | 66   | 5.421G         | 67   | 5.404G         | 68   | 5.532G         |
| 69                                                    | 5.545G         | 70   | 5.630G         | 71   | 5.719G         | 72   | 5.512G         |
| 73                                                    | 5.351G         | 74   | 5.297G         | 75   | 5.567G         | 76   | 5.377G         |
| 77                                                    | 5.269G         | 78   | 5.412G         | 79   | 5.683G         | 80   | 5.279G         |
| 81                                                    | 5.488G         | 82   | 5.458G         | 83   | 5.419G         | 84   | 5.715G         |
| 85                                                    | 5.625G         | 86   | 5.407G         | 87   | 5.286G         | 88   | 5.390G         |
| 89                                                    | 5.452G         | 90   | 5.264G         | 91   | 5.442G         | 92   | 5.707G         |
| 93                                                    | 5.500G         | 94   | 5.696G         | 95   | 5.278G         | 96   | 5.448G         |
| 97                                                    | 5.366G         | 98   | 5.713G         | 99   | 5.262G         | 100  | 5.608G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_17 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.589G         | 2    | 5.594G         | 3    | 5.526G         | 4    | 5.709G         |
| 5                                                     | 5.279G         | 6    | 5.474G         | 7    | 5.250G         | 8    | 5.422G         |
| 9                                                     | 5.617G         | 10   | 5.505G         | 11   | 5.438G         | 12   | 5.295G         |
| 13                                                    | 5.469G         | 14   | 5.619G         | 15   | 5.635G         | 16   | 5.376G         |
| 17                                                    | 5.450G         | 18   | 5.649G         | 19   | 5.476G         | 20   | 5.362G         |
| 21                                                    | 5.486G         | 22   | 5.409G         | 23   | 5.306G         | 24   | 5.430G         |
| 25                                                    | 5.444G         | 26   | 5.551G         | 27   | 5.299G         | 28   | 5.678G         |
| 29                                                    | 5.710G         | 30   | 5.620G         | 31   | 5.677G         | 32   | 5.577G         |
| 33                                                    | 5.322G         | 34   | 5.411G         | 35   | 5.502G         | 36   | 5.307G         |
| 37                                                    | 5.570G         | 38   | 5.564G         | 39   | 5.389G         | 40   | 5.491G         |
| 41                                                    | 5.399G         | 42   | 5.549G         | 43   | 5.590G         | 44   | 5.272G         |
| 45                                                    | 5.598G         | 46   | 5.485G         | 47   | 5.621G         | 48   | 5.314G         |
| 49                                                    | 5.443G         | 50   | 5.470G         | 51   | 5.679G         | 52   | 5.585G         |
| 53                                                    | 5.462G         | 54   | 5.588G         | 55   | 5.366G         | 56   | 5.370G         |
| 57                                                    | 5.540G         | 58   | 5.418G         | 59   | 5.492G         | 60   | 5.282G         |
| 61                                                    | 5.724G         | 62   | 5.512G         | 63   | 5.535G         | 64   | 5.461G         |
| 65                                                    | 5.425G         | 66   | 5.573G         | 67   | 5.468G         | 68   | 5.644G         |
| 69                                                    | 5.636G         | 70   | 5.637G         | 71   | 5.680G         | 72   | 5.367G         |
| 73                                                    | 5.442G         | 74   | 5.350G         | 75   | 5.722G         | 76   | 5.670G         |
| 77                                                    | 5.415G         | 78   | 5.531G         | 79   | 5.358G         | 80   | 5.684G         |
| 81                                                    | 5.703G         | 82   | 5.458G         | 83   | 5.600G         | 84   | 5.441G         |
| 85                                                    | 5.386G         | 86   | 5.548G         | 87   | 5.717G         | 88   | 5.480G         |
| 89                                                    | 5.683G         | 90   | 5.508G         | 91   | 5.667G         | 92   | 5.284G         |
| 93                                                    | 5.259G         | 94   | 5.303G         | 95   | 5.544G         | 96   | 5.569G         |
| 97                                                    | 5.541G         | 98   | 5.542G         | 99   | 5.311G         | 100  | 5.426G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_18 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.391G         | 2    | 5.281G         | 3    | 5.645G         | 4    | 5.672G         |
| 5                                                     | 5.572G         | 6    | 5.562G         | 7    | 5.447G         | 8    | 5.401G         |
| 9                                                     | 5.345G         | 10   | 5.488G         | 11   | 5.272G         | 12   | 5.680G         |
| 13                                                    | 5.495G         | 14   | 5.691G         | 15   | 5.328G         | 16   | 5.255G         |
| 17                                                    | 5.557G         | 18   | 5.650G         | 19   | 5.357G         | 20   | 5.554G         |
| 21                                                    | 5.624G         | 22   | 5.600G         | 23   | 5.504G         | 24   | 5.710G         |
| 25                                                    | 5.315G         | 26   | 5.431G         | 27   | 5.587G         | 28   | 5.443G         |
| 29                                                    | 5.321G         | 30   | 5.308G         | 31   | 5.458G         | 32   | 5.430G         |
| 33                                                    | 5.465G         | 34   | 5.439G         | 35   | 5.254G         | 36   | 5.633G         |
| 37                                                    | 5.343G         | 38   | 5.612G         | 39   | 5.436G         | 40   | 5.552G         |
| 41                                                    | 5.553G         | 42   | 5.607G         | 43   | 5.586G         | 44   | 5.582G         |
| 45                                                    | 5.720G         | 46   | 5.683G         | 47   | 5.293G         | 48   | 5.660G         |
| 49                                                    | 5.662G         | 50   | 5.261G         | 51   | 5.448G         | 52   | 5.384G         |
| 53                                                    | 5.619G         | 54   | 5.291G         | 55   | 5.311G         | 56   | 5.307G         |
| 57                                                    | 5.606G         | 58   | 5.614G         | 59   | 5.271G         | 60   | 5.578G         |
| 61                                                    | 5.459G         | 62   | 5.707G         | 63   | 5.690G         | 64   | 5.454G         |
| 65                                                    | 5.330G         | 66   | 5.682G         | 67   | 5.387G         | 68   | 5.354G         |
| 69                                                    | 5.501G         | 70   | 5.637G         | 71   | 5.493G         | 72   | 5.589G         |
| 73                                                    | 5.266G         | 74   | 5.358G         | 75   | 5.348G         | 76   | 5.367G         |
| 77                                                    | 5.701G         | 78   | 5.541G         | 79   | 5.461G         | 80   | 5.336G         |
| 81                                                    | 5.661G         | 82   | 5.350G         | 83   | 5.685G         | 84   | 5.340G         |
| 85                                                    | 5.406G         | 86   | 5.699G         | 87   | 5.300G         | 88   | 5.376G         |
| 89                                                    | 5.299G         | 90   | 5.641G         | 91   | 5.639G         | 92   | 5.292G         |
| 93                                                    | 5.318G         | 94   | 5.632G         | 95   | 5.463G         | 96   | 5.290G         |
| 97                                                    | 5.325G         | 98   | 5.408G         | 99   | 5.681G         | 100  | 5.385G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_19 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.333G         | 2    | 5.273G         | 3    | 5.610G         | 4    | 5.267G         |
| 5                                                     | 5.711G         | 6    | 5.317G         | 7    | 5.492G         | 8    | 5.256G         |
| 9                                                     | 5.422G         | 10   | 5.551G         | 11   | 5.277G         | 12   | 5.263G         |
| 13                                                    | 5.601G         | 14   | 5.565G         | 15   | 5.686G         | 16   | 5.531G         |
| 17                                                    | 5.289G         | 18   | 5.660G         | 19   | 5.471G         | 20   | 5.589G         |
| 21                                                    | 5.283G         | 22   | 5.445G         | 23   | 5.405G         | 24   | 5.434G         |
| 25                                                    | 5.286G         | 26   | 5.396G         | 27   | 5.597G         | 28   | 5.631G         |
| 29                                                    | 5.664G         | 30   | 5.314G         | 31   | 5.652G         | 32   | 5.590G         |
| 33                                                    | 5.506G         | 34   | 5.653G         | 35   | 5.278G         | 36   | 5.358G         |
| 37                                                    | 5.695G         | 38   | 5.575G         | 39   | 5.274G         | 40   | 5.502G         |
| 41                                                    | 5.364G         | 42   | 5.440G         | 43   | 5.650G         | 44   | 5.495G         |
| 45                                                    | 5.640G         | 46   | 5.679G         | 47   | 5.677G         | 48   | 5.380G         |
| 49                                                    | 5.675G         | 50   | 5.561G         | 51   | 5.437G         | 52   | 5.282G         |
| 53                                                    | 5.591G         | 54   | 5.521G         | 55   | 5.330G         | 56   | 5.555G         |
| 57                                                    | 5.673G         | 58   | 5.648G         | 59   | 5.550G         | 60   | 5.420G         |
| 61                                                    | 5.417G         | 62   | 5.484G         | 63   | 5.461G         | 64   | 5.397G         |
| 65                                                    | 5.569G         | 66   | 5.297G         | 67   | 5.499G         | 68   | 5.370G         |
| 69                                                    | 5.608G         | 70   | 5.674G         | 71   | 5.616G         | 72   | 5.538G         |
| 73                                                    | 5.698G         | 74   | 5.253G         | 75   | 5.603G         | 76   | 5.491G         |
| 77                                                    | 5.719G         | 78   | 5.720G         | 79   | 5.688G         | 80   | 5.395G         |
| 81                                                    | 5.414G         | 82   | 5.559G         | 83   | 5.480G         | 84   | 5.311G         |
| 85                                                    | 5.627G         | 86   | 5.649G         | 87   | 5.692G         | 88   | 5.507G         |
| 89                                                    | 5.705G         | 90   | 5.657G         | 91   | 5.424G         | 92   | 5.319G         |
| 93                                                    | 5.598G         | 94   | 5.701G         | 95   | 5.298G         | 96   | 5.702G         |
| 97                                                    | 5.477G         | 98   | 5.536G         | 99   | 5.634G         | 100  | 5.515G         |



A D T

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_20 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.569G         | 2    | 5.662G         | 3    | 5.449G         | 4    | 5.441G         |
| 5                                                     | 5.547G         | 6    | 5.681G         | 7    | 5.402G         | 8    | 5.509G         |
| 9                                                     | 5.268G         | 10   | 5.443G         | 11   | 5.336G         | 12   | 5.382G         |
| 13                                                    | 5.304G         | 14   | 5.292G         | 15   | 5.477G         | 16   | 5.664G         |
| 17                                                    | 5.300G         | 18   | 5.311G         | 19   | 5.613G         | 20   | 5.645G         |
| 21                                                    | 5.384G         | 22   | 5.643G         | 23   | 5.453G         | 24   | 5.364G         |
| 25                                                    | 5.621G         | 26   | 5.337G         | 27   | 5.512G         | 28   | 5.656G         |
| 29                                                    | 5.281G         | 30   | 5.548G         | 31   | 5.351G         | 32   | 5.422G         |
| 33                                                    | 5.599G         | 34   | 5.508G         | 35   | 5.619G         | 36   | 5.624G         |
| 37                                                    | 5.387G         | 38   | 5.376G         | 39   | 5.593G         | 40   | 5.489G         |
| 41                                                    | 5.275G         | 42   | 5.522G         | 43   | 5.670G         | 44   | 5.716G         |
| 45                                                    | 5.435G         | 46   | 5.680G         | 47   | 5.693G         | 48   | 5.557G         |
| 49                                                    | 5.439G         | 50   | 5.531G         | 51   | 5.418G         | 52   | 5.434G         |
| 53                                                    | 5.408G         | 54   | 5.574G         | 55   | 5.529G         | 56   | 5.702G         |
| 57                                                    | 5.519G         | 58   | 5.618G         | 59   | 5.637G         | 60   | 5.715G         |
| 61                                                    | 5.568G         | 62   | 5.413G         | 63   | 5.628G         | 64   | 5.454G         |
| 65                                                    | 5.471G         | 66   | 5.601G         | 67   | 5.251G         | 68   | 5.582G         |
| 69                                                    | 5.386G         | 70   | 5.649G         | 71   | 5.259G         | 72   | 5.626G         |
| 73                                                    | 5.636G         | 74   | 5.510G         | 75   | 5.250G         | 76   | 5.555G         |
| 77                                                    | 5.396G         | 78   | 5.377G         | 79   | 5.314G         | 80   | 5.294G         |
| 81                                                    | 5.654G         | 82   | 5.272G         | 83   | 5.366G         | 84   | 5.657G         |
| 85                                                    | 5.461G         | 86   | 5.642G         | 87   | 5.684G         | 88   | 5.399G         |
| 89                                                    | 5.541G         | 90   | 5.650G         | 91   | 5.427G         | 92   | 5.588G         |
| 93                                                    | 5.464G         | 94   | 5.600G         | 95   | 5.370G         | 96   | 5.724G         |
| 97                                                    | 5.647G         | 98   | 5.293G         | 99   | 5.403G         | 100  | 5.291G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_21 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.411G         | 2    | 5.589G         | 3    | 5.483G         | 4    | 5.679G         |
| 5                                                     | 5.410G         | 6    | 5.583G         | 7    | 5.399G         | 8    | 5.354G         |
| 9                                                     | 5.426G         | 10   | 5.637G         | 11   | 5.588G         | 12   | 5.699G         |
| 13                                                    | 5.439G         | 14   | 5.587G         | 15   | 5.710G         | 16   | 5.419G         |
| 17                                                    | 5.631G         | 18   | 5.330G         | 19   | 5.444G         | 20   | 5.456G         |
| 21                                                    | 5.569G         | 22   | 5.351G         | 23   | 5.675G         | 24   | 5.267G         |
| 25                                                    | 5.440G         | 26   | 5.485G         | 27   | 5.612G         | 28   | 5.276G         |
| 29                                                    | 5.273G         | 30   | 5.470G         | 31   | 5.547G         | 32   | 5.252G         |
| 33                                                    | 5.466G         | 34   | 5.586G         | 35   | 5.442G         | 36   | 5.596G         |
| 37                                                    | 5.388G         | 38   | 5.719G         | 39   | 5.403G         | 40   | 5.640G         |
| 41                                                    | 5.685G         | 42   | 5.436G         | 43   | 5.452G         | 44   | 5.420G         |
| 45                                                    | 5.529G         | 46   | 5.549G         | 47   | 5.542G         | 48   | 5.395G         |
| 49                                                    | 5.564G         | 50   | 5.438G         | 51   | 5.713G         | 52   | 5.318G         |
| 53                                                    | 5.266G         | 54   | 5.425G         | 55   | 5.620G         | 56   | 5.343G         |
| 57                                                    | 5.298G         | 58   | 5.313G         | 59   | 5.353G         | 60   | 5.416G         |
| 61                                                    | 5.722G         | 62   | 5.606G         | 63   | 5.565G         | 64   | 5.518G         |
| 65                                                    | 5.288G         | 66   | 5.605G         | 67   | 5.292G         | 68   | 5.593G         |
| 69                                                    | 5.684G         | 70   | 5.550G         | 71   | 5.643G         | 72   | 5.321G         |
| 73                                                    | 5.693G         | 74   | 5.338G         | 75   | 5.482G         | 76   | 5.669G         |
| 77                                                    | 5.563G         | 78   | 5.308G         | 79   | 5.281G         | 80   | 5.635G         |
| 81                                                    | 5.618G         | 82   | 5.289G         | 83   | 5.522G         | 84   | 5.528G         |
| 85                                                    | 5.582G         | 86   | 5.320G         | 87   | 5.496G         | 88   | 5.336G         |
| 89                                                    | 5.609G         | 90   | 5.497G         | 91   | 5.314G         | 92   | 5.384G         |
| 93                                                    | 5.603G         | 94   | 5.471G         | 95   | 5.431G         | 96   | 5.325G         |
| 97                                                    | 5.503G         | 98   | 5.674G         | 99   | 5.405G         | 100  | 5.537G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_22 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.559G         | 2    | 5.331G         | 3    | 5.642G         | 4    | 5.529G         |
| 5                                                     | 5.353G         | 6    | 5.261G         | 7    | 5.383G         | 8    | 5.498G         |
| 9                                                     | 5.317G         | 10   | 5.543G         | 11   | 5.450G         | 12   | 5.679G         |
| 13                                                    | 5.540G         | 14   | 5.253G         | 15   | 5.423G         | 16   | 5.369G         |
| 17                                                    | 5.293G         | 18   | 5.628G         | 19   | 5.702G         | 20   | 5.671G         |
| 21                                                    | 5.367G         | 22   | 5.272G         | 23   | 5.706G         | 24   | 5.674G         |
| 25                                                    | 5.409G         | 26   | 5.547G         | 27   | 5.489G         | 28   | 5.474G         |
| 29                                                    | 5.588G         | 30   | 5.554G         | 31   | 5.502G         | 32   | 5.589G         |
| 33                                                    | 5.501G         | 34   | 5.412G         | 35   | 5.521G         | 36   | 5.425G         |
| 37                                                    | 5.526G         | 38   | 5.564G         | 39   | 5.288G         | 40   | 5.616G         |
| 41                                                    | 5.517G         | 42   | 5.318G         | 43   | 5.431G         | 44   | 5.573G         |
| 45                                                    | 5.403G         | 46   | 5.464G         | 47   | 5.609G         | 48   | 5.494G         |
| 49                                                    | 5.549G         | 50   | 5.650G         | 51   | 5.688G         | 52   | 5.687G         |
| 53                                                    | 5.664G         | 54   | 5.495G         | 55   | 5.577G         | 56   | 5.476G         |
| 57                                                    | 5.625G         | 58   | 5.711G         | 59   | 5.722G         | 60   | 5.263G         |
| 61                                                    | 5.398G         | 62   | 5.362G         | 63   | 5.634G         | 64   | 5.437G         |
| 65                                                    | 5.662G         | 66   | 5.328G         | 67   | 5.296G         | 68   | 5.301G         |
| 69                                                    | 5.636G         | 70   | 5.453G         | 71   | 5.381G         | 72   | 5.660G         |
| 73                                                    | 5.404G         | 74   | 5.352G         | 75   | 5.393G         | 76   | 5.723G         |
| 77                                                    | 5.627G         | 78   | 5.684G         | 79   | 5.399G         | 80   | 5.365G         |
| 81                                                    | 5.708G         | 82   | 5.536G         | 83   | 5.305G         | 84   | 5.690G         |
| 85                                                    | 5.545G         | 86   | 5.416G         | 87   | 5.659G         | 88   | 5.657G         |
| 89                                                    | 5.454G         | 90   | 5.666G         | 91   | 5.602G         | 92   | 5.346G         |
| 93                                                    | 5.444G         | 94   | 5.506G         | 95   | 5.673G         | 96   | 5.442G         |
| 97                                                    | 5.611G         | 98   | 5.430G         | 99   | 5.606G         | 100  | 5.630G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_23 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.628G         | 2    | 5.332G         | 3    | 5.637G         | 4    | 5.711G         |
| 5                                                     | 5.441G         | 6    | 5.251G         | 7    | 5.684G         | 8    | 5.283G         |
| 9                                                     | 5.461G         | 10   | 5.382G         | 11   | 5.650G         | 12   | 5.673G         |
| 13                                                    | 5.397G         | 14   | 5.596G         | 15   | 5.312G         | 16   | 5.435G         |
| 17                                                    | 5.341G         | 18   | 5.346G         | 19   | 5.695G         | 20   | 5.475G         |
| 21                                                    | 5.420G         | 22   | 5.408G         | 23   | 5.281G         | 24   | 5.273G         |
| 25                                                    | 5.638G         | 26   | 5.439G         | 27   | 5.510G         | 28   | 5.465G         |
| 29                                                    | 5.530G         | 30   | 5.360G         | 31   | 5.663G         | 32   | 5.651G         |
| 33                                                    | 5.656G         | 34   | 5.699G         | 35   | 5.502G         | 36   | 5.664G         |
| 37                                                    | 5.342G         | 38   | 5.646G         | 39   | 5.721G         | 40   | 5.327G         |
| 41                                                    | 5.425G         | 42   | 5.542G         | 43   | 5.471G         | 44   | 5.417G         |
| 45                                                    | 5.456G         | 46   | 5.654G         | 47   | 5.415G         | 48   | 5.683G         |
| 49                                                    | 5.253G         | 50   | 5.647G         | 51   | 5.466G         | 52   | 5.575G         |
| 53                                                    | 5.580G         | 54   | 5.594G         | 55   | 5.368G         | 56   | 5.494G         |
| 57                                                    | 5.479G         | 58   | 5.395G         | 59   | 5.601G         | 60   | 5.293G         |
| 61                                                    | 5.297G         | 62   | 5.351G         | 63   | 5.277G         | 64   | 5.578G         |
| 65                                                    | 5.657G         | 66   | 5.387G         | 67   | 5.446G         | 68   | 5.513G         |
| 69                                                    | 5.680G         | 70   | 5.267G         | 71   | 5.574G         | 72   | 5.288G         |
| 73                                                    | 5.687G         | 74   | 5.644G         | 75   | 5.438G         | 76   | 5.329G         |
| 77                                                    | 5.586G         | 78   | 5.429G         | 79   | 5.641G         | 80   | 5.336G         |
| 81                                                    | 5.317G         | 82   | 5.372G         | 83   | 5.718G         | 84   | 5.427G         |
| 85                                                    | 5.340G         | 86   | 5.371G         | 87   | 5.255G         | 88   | 5.671G         |
| 89                                                    | 5.536G         | 90   | 5.563G         | 91   | 5.318G         | 92   | 5.391G         |
| 93                                                    | 5.470G         | 94   | 5.708G         | 95   | 5.523G         | 96   | 5.306G         |
| 97                                                    | 5.440G         | 98   | 5.433G         | 99   | 5.528G         | 100  | 5.263G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_24 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.555G         | 2    | 5.676G         | 3    | 5.510G         | 4    | 5.406G         |
| 5                                                     | 5.550G         | 6    | 5.721G         | 7    | 5.701G         | 8    | 5.587G         |
| 9                                                     | 5.557G         | 10   | 5.461G         | 11   | 5.311G         | 12   | 5.346G         |
| 13                                                    | 5.341G         | 14   | 5.641G         | 15   | 5.262G         | 16   | 5.584G         |
| 17                                                    | 5.686G         | 18   | 5.679G         | 19   | 5.604G         | 20   | 5.513G         |
| 21                                                    | 5.717G         | 22   | 5.553G         | 23   | 5.314G         | 24   | 5.310G         |
| 25                                                    | 5.568G         | 26   | 5.693G         | 27   | 5.403G         | 28   | 5.521G         |
| 29                                                    | 5.588G         | 30   | 5.548G         | 31   | 5.381G         | 32   | 5.323G         |
| 33                                                    | 5.591G         | 34   | 5.258G         | 35   | 5.523G         | 36   | 5.532G         |
| 37                                                    | 5.275G         | 38   | 5.530G         | 39   | 5.711G         | 40   | 5.350G         |
| 41                                                    | 5.640G         | 42   | 5.459G         | 43   | 5.432G         | 44   | 5.639G         |
| 45                                                    | 5.625G         | 46   | 5.391G         | 47   | 5.411G         | 48   | 5.594G         |
| 49                                                    | 5.487G         | 50   | 5.549G         | 51   | 5.377G         | 52   | 5.428G         |
| 53                                                    | 5.280G         | 54   | 5.254G         | 55   | 5.404G         | 56   | 5.327G         |
| 57                                                    | 5.418G         | 58   | 5.372G         | 59   | 5.692G         | 60   | 5.699G         |
| 61                                                    | 5.251G         | 62   | 5.627G         | 63   | 5.283G         | 64   | 5.613G         |
| 65                                                    | 5.607G         | 66   | 5.407G         | 67   | 5.271G         | 68   | 5.491G         |
| 69                                                    | 5.297G         | 70   | 5.389G         | 71   | 5.420G         | 72   | 5.673G         |
| 73                                                    | 5.415G         | 74   | 5.442G         | 75   | 5.680G         | 76   | 5.538G         |
| 77                                                    | 5.302G         | 78   | 5.644G         | 79   | 5.696G         | 80   | 5.637G         |
| 81                                                    | 5.480G         | 82   | 5.482G         | 83   | 5.582G         | 84   | 5.565G         |
| 85                                                    | 5.575G         | 86   | 5.358G         | 87   | 5.365G         | 88   | 5.417G         |
| 89                                                    | 5.394G         | 90   | 5.615G         | 91   | 5.602G         | 92   | 5.429G         |
| 93                                                    | 5.653G         | 94   | 5.313G         | 95   | 5.689G         | 96   | 5.669G         |
| 97                                                    | 5.287G         | 98   | 5.250G         | 99   | 5.463G         | 100  | 5.667G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_25 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.561G         | 2    | 5.662G         | 3    | 5.337G         | 4    | 5.597G         |
| 5                                                     | 5.498G         | 6    | 5.507G         | 7    | 5.360G         | 8    | 5.499G         |
| 9                                                     | 5.295G         | 10   | 5.461G         | 11   | 5.614G         | 12   | 5.646G         |
| 13                                                    | 5.267G         | 14   | 5.657G         | 15   | 5.468G         | 16   | 5.298G         |
| 17                                                    | 5.652G         | 18   | 5.384G         | 19   | 5.524G         | 20   | 5.335G         |
| 21                                                    | 5.380G         | 22   | 5.713G         | 23   | 5.535G         | 24   | 5.707G         |
| 25                                                    | 5.350G         | 26   | 5.708G         | 27   | 5.661G         | 28   | 5.395G         |
| 29                                                    | 5.309G         | 30   | 5.545G         | 31   | 5.710G         | 32   | 5.280G         |
| 33                                                    | 5.283G         | 34   | 5.503G         | 35   | 5.723G         | 36   | 5.464G         |
| 37                                                    | 5.685G         | 38   | 5.252G         | 39   | 5.563G         | 40   | 5.321G         |
| 41                                                    | 5.676G         | 42   | 5.416G         | 43   | 5.620G         | 44   | 5.324G         |
| 45                                                    | 5.719G         | 46   | 5.297G         | 47   | 5.697G         | 48   | 5.477G         |
| 49                                                    | 5.473G         | 50   | 5.549G         | 51   | 5.453G         | 52   | 5.592G         |
| 53                                                    | 5.504G         | 54   | 5.611G         | 55   | 5.310G         | 56   | 5.641G         |
| 57                                                    | 5.406G         | 58   | 5.481G         | 59   | 5.608G         | 60   | 5.392G         |
| 61                                                    | 5.595G         | 62   | 5.424G         | 63   | 5.287G         | 64   | 5.505G         |
| 65                                                    | 5.695G         | 66   | 5.612G         | 67   | 5.299G         | 68   | 5.617G         |
| 69                                                    | 5.286G         | 70   | 5.434G         | 71   | 5.251G         | 72   | 5.482G         |
| 73                                                    | 5.683G         | 74   | 5.717G         | 75   | 5.317G         | 76   | 5.672G         |
| 77                                                    | 5.548G         | 78   | 5.398G         | 79   | 5.413G         | 80   | 5.349G         |
| 81                                                    | 5.658G         | 82   | 5.538G         | 83   | 5.285G         | 84   | 5.492G         |
| 85                                                    | 5.253G         | 86   | 5.479G         | 87   | 5.459G         | 88   | 5.506G         |
| 89                                                    | 5.556G         | 90   | 5.369G         | 91   | 5.644G         | 92   | 5.693G         |
| 93                                                    | 5.675G         | 94   | 5.663G         | 95   | 5.602G         | 96   | 5.382G         |
| 97                                                    | 5.628G         | 98   | 5.530G         | 99   | 5.533G         | 100  | 5.528G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_26 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.438G         | 2    | 5.693G         | 3    | 5.615G         | 4    | 5.519G         |
| 5                                                     | 5.658G         | 6    | 5.425G         | 7    | 5.517G         | 8    | 5.716G         |
| 9                                                     | 5.361G         | 10   | 5.583G         | 11   | 5.646G         | 12   | 5.657G         |
| 13                                                    | 5.385G         | 14   | 5.402G         | 15   | 5.687G         | 16   | 5.266G         |
| 17                                                    | 5.271G         | 18   | 5.347G         | 19   | 5.597G         | 20   | 5.286G         |
| 21                                                    | 5.301G         | 22   | 5.272G         | 23   | 5.524G         | 24   | 5.309G         |
| 25                                                    | 5.463G         | 26   | 5.684G         | 27   | 5.431G         | 28   | 5.721G         |
| 29                                                    | 5.527G         | 30   | 5.660G         | 31   | 5.587G         | 32   | 5.263G         |
| 33                                                    | 5.434G         | 34   | 5.631G         | 35   | 5.483G         | 36   | 5.392G         |
| 37                                                    | 5.258G         | 38   | 5.491G         | 39   | 5.506G         | 40   | 5.355G         |
| 41                                                    | 5.697G         | 42   | 5.274G         | 43   | 5.270G         | 44   | 5.710G         |
| 45                                                    | 5.253G         | 46   | 5.348G         | 47   | 5.300G         | 48   | 5.574G         |
| 49                                                    | 5.334G         | 50   | 5.625G         | 51   | 5.396G         | 52   | 5.375G         |
| 53                                                    | 5.395G         | 54   | 5.498G         | 55   | 5.576G         | 56   | 5.371G         |
| 57                                                    | 5.423G         | 58   | 5.389G         | 59   | 5.416G         | 60   | 5.399G         |
| 61                                                    | 5.699G         | 62   | 5.316G         | 63   | 5.449G         | 64   | 5.496G         |
| 65                                                    | 5.652G         | 66   | 5.260G         | 67   | 5.530G         | 68   | 5.690G         |
| 69                                                    | 5.365G         | 70   | 5.317G         | 71   | 5.322G         | 72   | 5.408G         |
| 73                                                    | 5.290G         | 74   | 5.277G         | 75   | 5.436G         | 76   | 5.414G         |
| 77                                                    | 5.323G         | 78   | 5.297G         | 79   | 5.262G         | 80   | 5.661G         |
| 81                                                    | 5.539G         | 82   | 5.403G         | 83   | 5.295G         | 84   | 5.511G         |
| 85                                                    | 5.465G         | 86   | 5.401G         | 87   | 5.532G         | 88   | 5.490G         |
| 89                                                    | 5.454G         | 90   | 5.484G         | 91   | 5.590G         | 92   | 5.446G         |
| 93                                                    | 5.335G         | 94   | 5.291G         | 95   | 5.411G         | 96   | 5.581G         |
| 97                                                    | 5.305G         | 98   | 5.525G         | 99   | 5.378G         | 100  | 5.343G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_27 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.419G         | 2    | 5.672G         | 3    | 5.634G         | 4    | 5.617G         |
| 5                                                     | 5.303G         | 6    | 5.619G         | 7    | 5.719G         | 8    | 5.563G         |
| 9                                                     | 5.367G         | 10   | 5.363G         | 11   | 5.331G         | 12   | 5.296G         |
| 13                                                    | 5.498G         | 14   | 5.458G         | 15   | 5.484G         | 16   | 5.317G         |
| 17                                                    | 5.559G         | 18   | 5.506G         | 19   | 5.378G         | 20   | 5.422G         |
| 21                                                    | 5.297G         | 22   | 5.308G         | 23   | 5.529G         | 24   | 5.270G         |
| 25                                                    | 5.381G         | 26   | 5.453G         | 27   | 5.556G         | 28   | 5.645G         |
| 29                                                    | 5.704G         | 30   | 5.655G         | 31   | 5.515G         | 32   | 5.624G         |
| 33                                                    | 5.703G         | 34   | 5.596G         | 35   | 5.581G         | 36   | 5.641G         |
| 37                                                    | 5.443G         | 38   | 5.612G         | 39   | 5.522G         | 40   | 5.546G         |
| 41                                                    | 5.472G         | 42   | 5.396G         | 43   | 5.712G         | 44   | 5.315G         |
| 45                                                    | 5.362G         | 46   | 5.565G         | 47   | 5.400G         | 48   | 5.625G         |
| 49                                                    | 5.620G         | 50   | 5.595G         | 51   | 5.504G         | 52   | 5.511G         |
| 53                                                    | 5.671G         | 54   | 5.588G         | 55   | 5.395G         | 56   | 5.651G         |
| 57                                                    | 5.434G         | 58   | 5.359G         | 59   | 5.521G         | 60   | 5.294G         |
| 61                                                    | 5.279G         | 62   | 5.602G         | 63   | 5.430G         | 64   | 5.647G         |
| 65                                                    | 5.550G         | 66   | 5.514G         | 67   | 5.409G         | 68   | 5.262G         |
| 69                                                    | 5.383G         | 70   | 5.386G         | 71   | 5.344G         | 72   | 5.678G         |
| 73                                                    | 5.557G         | 74   | 5.393G         | 75   | 5.496G         | 76   | 5.706G         |
| 77                                                    | 5.432G         | 78   | 5.460G         | 79   | 5.351G         | 80   | 5.542G         |
| 81                                                    | 5.373G         | 82   | 5.650G         | 83   | 5.298G         | 84   | 5.501G         |
| 85                                                    | 5.260G         | 86   | 5.520G         | 87   | 5.416G         | 88   | 5.701G         |
| 89                                                    | 5.662G         | 90   | 5.509G         | 91   | 5.271G         | 92   | 5.613G         |
| 93                                                    | 5.313G         | 94   | 5.494G         | 95   | 5.480G         | 96   | 5.336G         |
| 97                                                    | 5.705G         | 98   | 5.660G         | 99   | 5.566G         | 100  | 5.599G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_28 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.436G         | 2    | 5.485G         | 3    | 5.300G         | 4    | 5.364G         |
| 5                                                     | 5.278G         | 6    | 5.638G         | 7    | 5.635G         | 8    | 5.459G         |
| 9                                                     | 5.375G         | 10   | 5.442G         | 11   | 5.597G         | 12   | 5.624G         |
| 13                                                    | 5.452G         | 14   | 5.356G         | 15   | 5.413G         | 16   | 5.545G         |
| 17                                                    | 5.367G         | 18   | 5.290G         | 19   | 5.411G         | 20   | 5.253G         |
| 21                                                    | 5.403G         | 22   | 5.488G         | 23   | 5.443G         | 24   | 5.663G         |
| 25                                                    | 5.338G         | 26   | 5.566G         | 27   | 5.255G         | 28   | 5.453G         |
| 29                                                    | 5.532G         | 30   | 5.317G         | 31   | 5.540G         | 32   | 5.468G         |
| 33                                                    | 5.336G         | 34   | 5.394G         | 35   | 5.575G         | 36   | 5.386G         |
| 37                                                    | 5.469G         | 38   | 5.267G         | 39   | 5.521G         | 40   | 5.426G         |
| 41                                                    | 5.587G         | 42   | 5.339G         | 43   | 5.329G         | 44   | 5.561G         |
| 45                                                    | 5.479G         | 46   | 5.661G         | 47   | 5.613G         | 48   | 5.410G         |
| 49                                                    | 5.646G         | 50   | 5.451G         | 51   | 5.534G         | 52   | 5.707G         |
| 53                                                    | 5.435G         | 54   | 5.576G         | 55   | 5.578G         | 56   | 5.543G         |
| 57                                                    | 5.259G         | 58   | 5.251G         | 59   | 5.346G         | 60   | 5.297G         |
| 61                                                    | 5.656G         | 62   | 5.397G         | 63   | 5.554G         | 64   | 5.270G         |
| 65                                                    | 5.464G         | 66   | 5.298G         | 67   | 5.721G         | 68   | 5.314G         |
| 69                                                    | 5.349G         | 70   | 5.331G         | 71   | 5.605G         | 72   | 5.610G         |
| 73                                                    | 5.579G         | 74   | 5.698G         | 75   | 5.309G         | 76   | 5.362G         |
| 77                                                    | 5.505G         | 78   | 5.520G         | 79   | 5.389G         | 80   | 5.571G         |
| 81                                                    | 5.323G         | 82   | 5.352G         | 83   | 5.276G         | 84   | 5.674G         |
| 85                                                    | 5.600G         | 86   | 5.558G         | 87   | 5.631G         | 88   | 5.528G         |
| 89                                                    | 5.525G         | 90   | 5.481G         | 91   | 5.345G         | 92   | 5.274G         |
| 93                                                    | 5.550G         | 94   | 5.581G         | 95   | 5.420G         | 96   | 5.460G         |
| 97                                                    | 5.705G         | 98   | 5.428G         | 99   | 5.400G         | 100  | 5.522G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_29 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.706G         | 2    | 5.639G         | 3    | 5.609G         | 4    | 5.391G         |
| 5                                                     | 5.260G         | 6    | 5.425G         | 7    | 5.608G         | 8    | 5.610G         |
| 9                                                     | 5.417G         | 10   | 5.393G         | 11   | 5.420G         | 12   | 5.689G         |
| 13                                                    | 5.379G         | 14   | 5.325G         | 15   | 5.570G         | 16   | 5.566G         |
| 17                                                    | 5.453G         | 18   | 5.427G         | 19   | 5.716G         | 20   | 5.661G         |
| 21                                                    | 5.277G         | 22   | 5.703G         | 23   | 5.688G         | 24   | 5.413G         |
| 25                                                    | 5.622G         | 26   | 5.400G         | 27   | 5.631G         | 28   | 5.479G         |
| 29                                                    | 5.447G         | 30   | 5.538G         | 31   | 5.389G         | 32   | 5.638G         |
| 33                                                    | 5.335G         | 34   | 5.559G         | 35   | 5.687G         | 36   | 5.554G         |
| 37                                                    | 5.605G         | 38   | 5.693G         | 39   | 5.717G         | 40   | 5.440G         |
| 41                                                    | 5.473G         | 42   | 5.437G         | 43   | 5.627G         | 44   | 5.467G         |
| 45                                                    | 5.446G         | 46   | 5.404G         | 47   | 5.651G         | 48   | 5.642G         |
| 49                                                    | 5.373G         | 50   | 5.300G         | 51   | 5.350G         | 52   | 5.646G         |
| 53                                                    | 5.505G         | 54   | 5.504G         | 55   | 5.604G         | 56   | 5.636G         |
| 57                                                    | 5.296G         | 58   | 5.294G         | 59   | 5.676G         | 60   | 5.380G         |
| 61                                                    | 5.583G         | 62   | 5.587G         | 63   | 5.510G         | 64   | 5.306G         |
| 65                                                    | 5.493G         | 66   | 5.339G         | 67   | 5.338G         | 68   | 5.537G         |
| 69                                                    | 5.340G         | 70   | 5.659G         | 71   | 5.263G         | 72   | 5.431G         |
| 73                                                    | 5.258G         | 74   | 5.390G         | 75   | 5.365G         | 76   | 5.441G         |
| 77                                                    | 5.327G         | 78   | 5.564G         | 79   | 5.634G         | 80   | 5.454G         |
| 81                                                    | 5.568G         | 82   | 5.652G         | 83   | 5.291G         | 84   | 5.626G         |
| 85                                                    | 5.295G         | 86   | 5.500G         | 87   | 5.410G         | 88   | 5.528G         |
| 89                                                    | 5.267G         | 90   | 5.396G         | 91   | 5.517G         | 92   | 5.329G         |
| 93                                                    | 5.432G         | 94   | 5.697G         | 95   | 5.343G         | 96   | 5.461G         |
| 97                                                    | 5.572G         | 98   | 5.702G         | 99   | 5.701G         | 100  | 5.298G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_30 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.259G         | 2    | 5.482G         | 3    | 5.405G         | 4    | 5.508G         |
| 5                                                     | 5.680G         | 6    | 5.515G         | 7    | 5.387G         | 8    | 5.669G         |
| 9                                                     | 5.566G         | 10   | 5.594G         | 11   | 5.444G         | 12   | 5.712G         |
| 13                                                    | 5.276G         | 14   | 5.700G         | 15   | 5.573G         | 16   | 5.565G         |
| 17                                                    | 5.413G         | 18   | 5.600G         | 19   | 5.472G         | 20   | 5.304G         |
| 21                                                    | 5.479G         | 22   | 5.456G         | 23   | 5.436G         | 24   | 5.627G         |
| 25                                                    | 5.668G         | 26   | 5.510G         | 27   | 5.465G         | 28   | 5.349G         |
| 29                                                    | 5.370G         | 30   | 5.667G         | 31   | 5.531G         | 32   | 5.499G         |
| 33                                                    | 5.369G         | 34   | 5.430G         | 35   | 5.335G         | 36   | 5.368G         |
| 37                                                    | 5.713G         | 38   | 5.372G         | 39   | 5.568G         | 40   | 5.509G         |
| 41                                                    | 5.548G         | 42   | 5.281G         | 43   | 5.523G         | 44   | 5.714G         |
| 45                                                    | 5.650G         | 46   | 5.312G         | 47   | 5.475G         | 48   | 5.250G         |
| 49                                                    | 5.403G         | 50   | 5.611G         | 51   | 5.537G         | 52   | 5.706G         |
| 53                                                    | 5.258G         | 54   | 5.525G         | 55   | 5.303G         | 56   | 5.425G         |
| 57                                                    | 5.649G         | 58   | 5.473G         | 59   | 5.604G         | 60   | 5.321G         |
| 61                                                    | 5.469G         | 62   | 5.330G         | 63   | 5.266G         | 64   | 5.431G         |
| 65                                                    | 5.685G         | 66   | 5.529G         | 67   | 5.684G         | 68   | 5.411G         |
| 69                                                    | 5.502G         | 70   | 5.670G         | 71   | 5.342G         | 72   | 5.299G         |
| 73                                                    | 5.543G         | 74   | 5.462G         | 75   | 5.720G         | 76   | 5.707G         |
| 77                                                    | 5.655G         | 78   | 5.644G         | 79   | 5.440G         | 80   | 5.585G         |
| 81                                                    | 5.377G         | 82   | 5.642G         | 83   | 5.672G         | 84   | 5.417G         |
| 85                                                    | 5.501G         | 86   | 5.255G         | 87   | 5.488G         | 88   | 5.470G         |
| 89                                                    | 5.555G         | 90   | 5.450G         | 91   | 5.602G         | 92   | 5.336G         |
| 93                                                    | 5.395G         | 94   | 5.506G         | 95   | 5.307G         | 96   | 5.390G         |
| 97                                                    | 5.671G         | 98   | 5.291G         | 99   | 5.461G         | 100  | 5.514G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_01 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.692G         | 2    | 5.717G         | 3    | 5.613G         | 4    | 5.615G         |
| 5                                                     | 5.468G         | 6    | 5.493G         | 7    | 5.328G         | 8    | 5.542G         |
| 9                                                     | 5.324G         | 10   | 5.442G         | 11   | 5.416G         | 12   | 5.649G         |
| 13                                                    | 5.403G         | 14   | 5.448G         | 15   | 5.379G         | 16   | 5.458G         |
| 17                                                    | 5.500G         | 18   | 5.250G         | 19   | 5.714G         | 20   | 5.348G         |
| 21                                                    | 5.581G         | 22   | 5.463G         | 23   | 5.271G         | 24   | 5.636G         |
| 25                                                    | 5.426G         | 26   | 5.673G         | 27   | 5.566G         | 28   | 5.598G         |
| 29                                                    | 5.346G         | 30   | 5.701G         | 31   | 5.323G         | 32   | 5.552G         |
| 33                                                    | 5.371G         | 34   | 5.631G         | 35   | 5.543G         | 36   | 5.623G         |
| 37                                                    | 5.719G         | 38   | 5.679G         | 39   | 5.568G         | 40   | 5.560G         |
| 41                                                    | 5.420G         | 42   | 5.473G         | 43   | 5.612G         | 44   | 5.393G         |
| 45                                                    | 5.301G         | 46   | 5.461G         | 47   | 5.375G         | 48   | 5.689G         |
| 49                                                    | 5.546G         | 50   | 5.429G         | 51   | 5.723G         | 52   | 5.550G         |
| 53                                                    | 5.488G         | 54   | 5.657G         | 55   | 5.380G         | 56   | 5.270G         |
| 57                                                    | 5.513G         | 58   | 5.483G         | 59   | 5.711G         | 60   | 5.633G         |
| 61                                                    | 5.364G         | 62   | 5.536G         | 63   | 5.284G         | 64   | 5.357G         |
| 65                                                    | 5.360G         | 66   | 5.343G         | 67   | 5.430G         | 68   | 5.281G         |
| 69                                                    | 5.706G         | 70   | 5.593G         | 71   | 5.269G         | 72   | 5.635G         |
| 73                                                    | 5.619G         | 74   | 5.539G         | 75   | 5.322G         | 76   | 5.306G         |
| 77                                                    | 5.478G         | 78   | 5.464G         | 79   | 5.257G         | 80   | 5.413G         |
| 81                                                    | 5.484G         | 82   | 5.688G         | 83   | 5.376G         | 84   | 5.587G         |
| 85                                                    | 5.369G         | 86   | 5.421G         | 87   | 5.279G         | 88   | 5.276G         |
| 89                                                    | 5.366G         | 90   | 5.354G         | 91   | 5.358G         | 92   | 5.492G         |
| 93                                                    | 5.545G         | 94   | 5.646G         | 95   | 5.509G         | 96   | 5.685G         |
| 97                                                    | 5.392G         | 98   | 5.709G         | 99   | 5.567G         | 100  | 5.315G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_02 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.376G         | 2    | 5.503G         | 3    | 5.573G         | 4    | 5.466G         |
| 5                                                     | 5.412G         | 6    | 5.632G         | 7    | 5.608G         | 8    | 5.446G         |
| 9                                                     | 5.377G         | 10   | 5.509G         | 11   | 5.459G         | 12   | 5.507G         |
| 13                                                    | 5.618G         | 14   | 5.387G         | 15   | 5.554G         | 16   | 5.312G         |
| 17                                                    | 5.368G         | 18   | 5.396G         | 19   | 5.703G         | 20   | 5.329G         |
| 21                                                    | 5.323G         | 22   | 5.485G         | 23   | 5.545G         | 24   | 5.587G         |
| 25                                                    | 5.654G         | 26   | 5.332G         | 27   | 5.294G         | 28   | 5.471G         |
| 29                                                    | 5.395G         | 30   | 5.565G         | 31   | 5.709G         | 32   | 5.357G         |
| 33                                                    | 5.629G         | 34   | 5.253G         | 35   | 5.365G         | 36   | 5.427G         |
| 37                                                    | 5.517G         | 38   | 5.304G         | 39   | 5.337G         | 40   | 5.286G         |
| 41                                                    | 5.473G         | 42   | 5.383G         | 43   | 5.527G         | 44   | 5.261G         |
| 45                                                    | 5.352G         | 46   | 5.607G         | 47   | 5.274G         | 48   | 5.586G         |
| 49                                                    | 5.278G         | 50   | 5.637G         | 51   | 5.547G         | 52   | 5.492G         |
| 53                                                    | 5.717G         | 54   | 5.269G         | 55   | 5.675G         | 56   | 5.494G         |
| 57                                                    | 5.598G         | 58   | 5.670G         | 59   | 5.589G         | 60   | 5.533G         |
| 61                                                    | 5.698G         | 62   | 5.563G         | 63   | 5.532G         | 64   | 5.322G         |
| 65                                                    | 5.684G         | 66   | 5.595G         | 67   | 5.712G         | 68   | 5.525G         |
| 69                                                    | 5.569G         | 70   | 5.291G         | 71   | 5.476G         | 72   | 5.603G         |
| 73                                                    | 5.590G         | 74   | 5.410G         | 75   | 5.423G         | 76   | 5.710G         |
| 77                                                    | 5.444G         | 78   | 5.665G         | 79   | 5.362G         | 80   | 5.356G         |
| 81                                                    | 5.400G         | 82   | 5.257G         | 83   | 5.369G         | 84   | 5.311G         |
| 85                                                    | 5.255G         | 86   | 5.609G         | 87   | 5.421G         | 88   | 5.279G         |
| 89                                                    | 5.409G         | 90   | 5.512G         | 91   | 5.519G         | 92   | 5.317G         |
| 93                                                    | 5.667G         | 94   | 5.564G         | 95   | 5.258G         | 96   | 5.468G         |
| 97                                                    | 5.349G         | 98   | 5.544G         | 99   | 5.511G         | 100  | 5.697G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_03 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.546G         | 2    | 5.425G         | 3    | 5.342G         | 4    | 5.529G         |
| 5                                                     | 5.461G         | 6    | 5.426G         | 7    | 5.489G         | 8    | 5.493G         |
| 9                                                     | 5.630G         | 10   | 5.657G         | 11   | 5.428G         | 12   | 5.332G         |
| 13                                                    | 5.382G         | 14   | 5.475G         | 15   | 5.325G         | 16   | 5.388G         |
| 17                                                    | 5.323G         | 18   | 5.682G         | 19   | 5.621G         | 20   | 5.679G         |
| 21                                                    | 5.269G         | 22   | 5.599G         | 23   | 5.530G         | 24   | 5.313G         |
| 25                                                    | 5.547G         | 26   | 5.273G         | 27   | 5.427G         | 28   | 5.279G         |
| 29                                                    | 5.542G         | 30   | 5.490G         | 31   | 5.416G         | 32   | 5.633G         |
| 33                                                    | 5.404G         | 34   | 5.525G         | 35   | 5.590G         | 36   | 5.567G         |
| 37                                                    | 5.671G         | 38   | 5.448G         | 39   | 5.584G         | 40   | 5.592G         |
| 41                                                    | 5.602G         | 42   | 5.415G         | 43   | 5.620G         | 44   | 5.349G         |
| 45                                                    | 5.473G         | 46   | 5.330G         | 47   | 5.651G         | 48   | 5.705G         |
| 49                                                    | 5.507G         | 50   | 5.282G         | 51   | 5.307G         | 52   | 5.431G         |
| 53                                                    | 5.654G         | 54   | 5.312G         | 55   | 5.674G         | 56   | 5.531G         |
| 57                                                    | 5.631G         | 58   | 5.607G         | 59   | 5.331G         | 60   | 5.357G         |
| 61                                                    | 5.354G         | 62   | 5.669G         | 63   | 5.387G         | 64   | 5.356G         |
| 65                                                    | 5.256G         | 66   | 5.272G         | 67   | 5.419G         | 68   | 5.298G         |
| 69                                                    | 5.304G         | 70   | 5.466G         | 71   | 5.476G         | 72   | 5.346G         |
| 73                                                    | 5.564G         | 74   | 5.445G         | 75   | 5.403G         | 76   | 5.492G         |
| 77                                                    | 5.458G         | 78   | 5.296G         | 79   | 5.367G         | 80   | 5.563G         |
| 81                                                    | 5.457G         | 82   | 5.613G         | 83   | 5.577G         | 84   | 5.423G         |
| 85                                                    | 5.550G         | 86   | 5.317G         | 87   | 5.632G         | 88   | 5.442G         |
| 89                                                    | 5.541G         | 90   | 5.344G         | 91   | 5.484G         | 92   | 5.637G         |
| 93                                                    | 5.675G         | 94   | 5.625G         | 95   | 5.666G         | 96   | 5.653G         |
| 97                                                    | 5.624G         | 98   | 5.696G         | 99   | 5.508G         | 100  | 5.350G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_04 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.423G         | 2    | 5.638G         | 3    | 5.498G         | 4    | 5.266G         |
| 5                                                     | 5.458G         | 6    | 5.454G         | 7    | 5.303G         | 8    | 5.365G         |
| 9                                                     | 5.706G         | 10   | 5.688G         | 11   | 5.716G         | 12   | 5.680G         |
| 13                                                    | 5.285G         | 14   | 5.622G         | 15   | 5.611G         | 16   | 5.264G         |
| 17                                                    | 5.408G         | 18   | 5.352G         | 19   | 5.287G         | 20   | 5.526G         |
| 21                                                    | 5.514G         | 22   | 5.664G         | 23   | 5.340G         | 24   | 5.652G         |
| 25                                                    | 5.468G         | 26   | 5.452G         | 27   | 5.701G         | 28   | 5.414G         |
| 29                                                    | 5.500G         | 30   | 5.614G         | 31   | 5.633G         | 32   | 5.655G         |
| 33                                                    | 5.460G         | 34   | 5.416G         | 35   | 5.634G         | 36   | 5.465G         |
| 37                                                    | 5.681G         | 38   | 5.434G         | 39   | 5.421G         | 40   | 5.425G         |
| 41                                                    | 5.563G         | 42   | 5.476G         | 43   | 5.582G         | 44   | 5.381G         |
| 45                                                    | 5.471G         | 46   | 5.686G         | 47   | 5.560G         | 48   | 5.293G         |
| 49                                                    | 5.436G         | 50   | 5.657G         | 51   | 5.480G         | 52   | 5.619G         |
| 53                                                    | 5.580G         | 54   | 5.639G         | 55   | 5.341G         | 56   | 5.409G         |
| 57                                                    | 5.631G         | 58   | 5.362G         | 59   | 5.376G         | 60   | 5.494G         |
| 61                                                    | 5.667G         | 62   | 5.654G         | 63   | 5.589G         | 64   | 5.486G         |
| 65                                                    | 5.380G         | 66   | 5.710G         | 67   | 5.678G         | 68   | 5.467G         |
| 69                                                    | 5.602G         | 70   | 5.581G         | 71   | 5.604G         | 72   | 5.691G         |
| 73                                                    | 5.530G         | 74   | 5.576G         | 75   | 5.679G         | 76   | 5.644G         |
| 77                                                    | 5.456G         | 78   | 5.429G         | 79   | 5.641G         | 80   | 5.451G         |
| 81                                                    | 5.383G         | 82   | 5.407G         | 83   | 5.349G         | 84   | 5.519G         |
| 85                                                    | 5.594G         | 86   | 5.700G         | 87   | 5.433G         | 88   | 5.299G         |
| 89                                                    | 5.411G         | 90   | 5.646G         | 91   | 5.624G         | 92   | 5.373G         |
| 93                                                    | 5.501G         | 94   | 5.490G         | 95   | 5.474G         | 96   | 5.525G         |
| 97                                                    | 5.647G         | 98   | 5.718G         | 99   | 5.444G         | 100  | 5.258G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_05 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.314G         | 2    | 5.263G         | 3    | 5.464G         | 4    | 5.519G         |
| 5                                                     | 5.501G         | 6    | 5.352G         | 7    | 5.698G         | 8    | 5.508G         |
| 9                                                     | 5.420G         | 10   | 5.387G         | 11   | 5.296G         | 12   | 5.329G         |
| 13                                                    | 5.563G         | 14   | 5.264G         | 15   | 5.513G         | 16   | 5.520G         |
| 17                                                    | 5.676G         | 18   | 5.368G         | 19   | 5.524G         | 20   | 5.412G         |
| 21                                                    | 5.403G         | 22   | 5.261G         | 23   | 5.485G         | 24   | 5.397G         |
| 25                                                    | 5.720G         | 26   | 5.690G         | 27   | 5.510G         | 28   | 5.597G         |
| 29                                                    | 5.394G         | 30   | 5.444G         | 31   | 5.691G         | 32   | 5.620G         |
| 33                                                    | 5.297G         | 34   | 5.724G         | 35   | 5.500G         | 36   | 5.273G         |
| 37                                                    | 5.388G         | 38   | 5.332G         | 39   | 5.460G         | 40   | 5.542G         |
| 41                                                    | 5.425G         | 42   | 5.618G         | 43   | 5.609G         | 44   | 5.482G         |
| 45                                                    | 5.493G         | 46   | 5.717G         | 47   | 5.611G         | 48   | 5.521G         |
| 49                                                    | 5.503G         | 50   | 5.406G         | 51   | 5.539G         | 52   | 5.327G         |
| 53                                                    | 5.480G         | 54   | 5.534G         | 55   | 5.287G         | 56   | 5.324G         |
| 57                                                    | 5.470G         | 58   | 5.365G         | 59   | 5.401G         | 60   | 5.696G         |
| 61                                                    | 5.511G         | 62   | 5.344G         | 63   | 5.358G         | 64   | 5.373G         |
| 65                                                    | 5.385G         | 66   | 5.325G         | 67   | 5.289G         | 68   | 5.722G         |
| 69                                                    | 5.437G         | 70   | 5.281G         | 71   | 5.317G         | 72   | 5.447G         |
| 73                                                    | 5.430G         | 74   | 5.484G         | 75   | 5.453G         | 76   | 5.499G         |
| 77                                                    | 5.463G         | 78   | 5.678G         | 79   | 5.693G         | 80   | 5.294G         |
| 81                                                    | 5.476G         | 82   | 5.636G         | 83   | 5.295G         | 84   | 5.687G         |
| 85                                                    | 5.661G         | 86   | 5.694G         | 87   | 5.680G         | 88   | 5.704G         |
| 89                                                    | 5.669G         | 90   | 5.713G         | 91   | 5.619G         | 92   | 5.712G         |
| 93                                                    | 5.350G         | 94   | 5.312G         | 95   | 5.573G         | 96   | 5.709G         |
| 97                                                    | 5.275G         | 98   | 5.496G         | 99   | 5.550G         | 100  | 5.641G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_06 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.622G         | 2    | 5.545G         | 3    | 5.379G         | 4    | 5.597G         |
| 5                                                     | 5.460G         | 6    | 5.570G         | 7    | 5.396G         | 8    | 5.676G         |
| 9                                                     | 5.286G         | 10   | 5.510G         | 11   | 5.450G         | 12   | 5.257G         |
| 13                                                    | 5.398G         | 14   | 5.439G         | 15   | 5.463G         | 16   | 5.438G         |
| 17                                                    | 5.639G         | 18   | 5.568G         | 19   | 5.618G         | 20   | 5.381G         |
| 21                                                    | 5.722G         | 22   | 5.330G         | 23   | 5.691G         | 24   | 5.345G         |
| 25                                                    | 5.539G         | 26   | 5.670G         | 27   | 5.715G         | 28   | 5.293G         |
| 29                                                    | 5.651G         | 30   | 5.708G         | 31   | 5.526G         | 32   | 5.335G         |
| 33                                                    | 5.321G         | 34   | 5.665G         | 35   | 5.493G         | 36   | 5.647G         |
| 37                                                    | 5.602G         | 38   | 5.454G         | 39   | 5.346G         | 40   | 5.285G         |
| 41                                                    | 5.310G         | 42   | 5.707G         | 43   | 5.369G         | 44   | 5.632G         |
| 45                                                    | 5.547G         | 46   | 5.432G         | 47   | 5.273G         | 48   | 5.489G         |
| 49                                                    | 5.517G         | 50   | 5.542G         | 51   | 5.433G         | 52   | 5.683G         |
| 53                                                    | 5.338G         | 54   | 5.443G         | 55   | 5.506G         | 56   | 5.325G         |
| 57                                                    | 5.275G         | 58   | 5.650G         | 59   | 5.408G         | 60   | 5.701G         |
| 61                                                    | 5.459G         | 62   | 5.574G         | 63   | 5.348G         | 64   | 5.307G         |
| 65                                                    | 5.502G         | 66   | 5.684G         | 67   | 5.260G         | 68   | 5.523G         |
| 69                                                    | 5.518G         | 70   | 5.397G         | 71   | 5.393G         | 72   | 5.495G         |
| 73                                                    | 5.598G         | 74   | 5.712G         | 75   | 5.507G         | 76   | 5.663G         |
| 77                                                    | 5.436G         | 78   | 5.486G         | 79   | 5.323G         | 80   | 5.661G         |
| 81                                                    | 5.640G         | 82   | 5.299G         | 83   | 5.560G         | 84   | 5.410G         |
| 85                                                    | 5.266G         | 86   | 5.521G         | 87   | 5.558G         | 88   | 5.617G         |
| 89                                                    | 5.342G         | 90   | 5.565G         | 91   | 5.403G         | 92   | 5.297G         |
| 93                                                    | 5.569G         | 94   | 5.575G         | 95   | 5.648G         | 96   | 5.556G         |
| 97                                                    | 5.483G         | 98   | 5.418G         | 99   | 5.404G         | 100  | 5.405G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_07 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.421G         | 2    | 5.681G         | 3    | 5.362G         | 4    | 5.622G         |
| 5                                                     | 5.557G         | 6    | 5.568G         | 7    | 5.292G         | 8    | 5.607G         |
| 9                                                     | 5.513G         | 10   | 5.613G         | 11   | 5.718G         | 12   | 5.687G         |
| 13                                                    | 5.537G         | 14   | 5.484G         | 15   | 5.662G         | 16   | 5.597G         |
| 17                                                    | 5.614G         | 18   | 5.579G         | 19   | 5.267G         | 20   | 5.516G         |
| 21                                                    | 5.420G         | 22   | 5.713G         | 23   | 5.338G         | 24   | 5.327G         |
| 25                                                    | 5.559G         | 26   | 5.635G         | 27   | 5.705G         | 28   | 5.620G         |
| 29                                                    | 5.465G         | 30   | 5.376G         | 31   | 5.487G         | 32   | 5.498G         |
| 33                                                    | 5.538G         | 34   | 5.671G         | 35   | 5.540G         | 36   | 5.321G         |
| 37                                                    | 5.476G         | 38   | 5.467G         | 39   | 5.556G         | 40   | 5.624G         |
| 41                                                    | 5.501G         | 42   | 5.642G         | 43   | 5.339G         | 44   | 5.440G         |
| 45                                                    | 5.308G         | 46   | 5.609G         | 47   | 5.346G         | 48   | 5.438G         |
| 49                                                    | 5.585G         | 50   | 5.270G         | 51   | 5.531G         | 52   | 5.264G         |
| 53                                                    | 5.377G         | 54   | 5.273G         | 55   | 5.411G         | 56   | 5.454G         |
| 57                                                    | 5.468G         | 58   | 5.374G         | 59   | 5.529G         | 60   | 5.457G         |
| 61                                                    | 5.302G         | 62   | 5.595G         | 63   | 5.508G         | 64   | 5.365G         |
| 65                                                    | 5.353G         | 66   | 5.357G         | 67   | 5.347G         | 68   | 5.427G         |
| 69                                                    | 5.674G         | 70   | 5.494G         | 71   | 5.437G         | 72   | 5.633G         |
| 73                                                    | 5.527G         | 74   | 5.590G         | 75   | 5.309G         | 76   | 5.603G         |
| 77                                                    | 5.592G         | 78   | 5.632G         | 79   | 5.567G         | 80   | 5.392G         |
| 81                                                    | 5.381G         | 82   | 5.690G         | 83   | 5.320G         | 84   | 5.463G         |
| 85                                                    | 5.692G         | 86   | 5.488G         | 87   | 5.480G         | 88   | 5.424G         |
| 89                                                    | 5.444G         | 90   | 5.294G         | 91   | 5.317G         | 92   | 5.470G         |
| 93                                                    | 5.291G         | 94   | 5.615G         | 95   | 5.301G         | 96   | 5.368G         |
| 97                                                    | 5.481G         | 98   | 5.669G         | 99   | 5.299G         | 100  | 5.599G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_08 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.660G         | 2    | 5.576G         | 3    | 5.465G         | 4    | 5.273G         |
| 5                                                     | 5.459G         | 6    | 5.383G         | 7    | 5.349G         | 8    | 5.284G         |
| 9                                                     | 5.322G         | 10   | 5.356G         | 11   | 5.539G         | 12   | 5.382G         |
| 13                                                    | 5.389G         | 14   | 5.288G         | 15   | 5.556G         | 16   | 5.421G         |
| 17                                                    | 5.272G         | 18   | 5.517G         | 19   | 5.574G         | 20   | 5.423G         |
| 21                                                    | 5.723G         | 22   | 5.651G         | 23   | 5.467G         | 24   | 5.460G         |
| 25                                                    | 5.345G         | 26   | 5.642G         | 27   | 5.600G         | 28   | 5.319G         |
| 29                                                    | 5.552G         | 30   | 5.287G         | 31   | 5.454G         | 32   | 5.543G         |
| 33                                                    | 5.292G         | 34   | 5.514G         | 35   | 5.614G         | 36   | 5.599G         |
| 37                                                    | 5.461G         | 38   | 5.410G         | 39   | 5.685G         | 40   | 5.405G         |
| 41                                                    | 5.722G         | 42   | 5.304G         | 43   | 5.474G         | 44   | 5.546G         |
| 45                                                    | 5.563G         | 46   | 5.550G         | 47   | 5.360G         | 48   | 5.384G         |
| 49                                                    | 5.350G         | 50   | 5.446G         | 51   | 5.553G         | 52   | 5.507G         |
| 53                                                    | 5.401G         | 54   | 5.639G         | 55   | 5.700G         | 56   | 5.613G         |
| 57                                                    | 5.516G         | 58   | 5.648G         | 59   | 5.693G         | 60   | 5.411G         |
| 61                                                    | 5.484G         | 62   | 5.492G         | 63   | 5.261G         | 64   | 5.413G         |
| 65                                                    | 5.547G         | 66   | 5.324G         | 67   | 5.699G         | 68   | 5.544G         |
| 69                                                    | 5.686G         | 70   | 5.377G         | 71   | 5.616G         | 72   | 5.309G         |
| 73                                                    | 5.491G         | 74   | 5.257G         | 75   | 5.605G         | 76   | 5.307G         |
| 77                                                    | 5.290G         | 78   | 5.269G         | 79   | 5.359G         | 80   | 5.707G         |
| 81                                                    | 5.258G         | 82   | 5.711G         | 83   | 5.625G         | 84   | 5.714G         |
| 85                                                    | 5.611G         | 86   | 5.531G         | 87   | 5.409G         | 88   | 5.458G         |
| 89                                                    | 5.385G         | 90   | 5.582G         | 91   | 5.422G         | 92   | 5.271G         |
| 93                                                    | 5.490G         | 94   | 5.523G         | 95   | 5.653G         | 96   | 5.289G         |
| 97                                                    | 5.425G         | 98   | 5.391G         | 99   | 5.375G         | 100  | 5.577G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_09 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.605G         | 2    | 5.427G         | 3    | 5.488G         | 4    | 5.461G         |
| 5                                                     | 5.298G         | 6    | 5.478G         | 7    | 5.250G         | 8    | 5.641G         |
| 9                                                     | 5.648G         | 10   | 5.596G         | 11   | 5.371G         | 12   | 5.696G         |
| 13                                                    | 5.607G         | 14   | 5.590G         | 15   | 5.513G         | 16   | 5.380G         |
| 17                                                    | 5.423G         | 18   | 5.604G         | 19   | 5.516G         | 20   | 5.711G         |
| 21                                                    | 5.406G         | 22   | 5.664G         | 23   | 5.389G         | 24   | 5.440G         |
| 25                                                    | 5.397G         | 26   | 5.687G         | 27   | 5.668G         | 28   | 5.444G         |
| 29                                                    | 5.634G         | 30   | 5.501G         | 31   | 5.422G         | 32   | 5.268G         |
| 33                                                    | 5.261G         | 34   | 5.290G         | 35   | 5.441G         | 36   | 5.572G         |
| 37                                                    | 5.653G         | 38   | 5.315G         | 39   | 5.606G         | 40   | 5.546G         |
| 41                                                    | 5.489G         | 42   | 5.588G         | 43   | 5.493G         | 44   | 5.551G         |
| 45                                                    | 5.360G         | 46   | 5.597G         | 47   | 5.637G         | 48   | 5.424G         |
| 49                                                    | 5.410G         | 50   | 5.408G         | 51   | 5.331G         | 52   | 5.326G         |
| 53                                                    | 5.321G         | 54   | 5.446G         | 55   | 5.503G         | 56   | 5.384G         |
| 57                                                    | 5.373G         | 58   | 5.681G         | 59   | 5.621G         | 60   | 5.363G         |
| 61                                                    | 5.304G         | 62   | 5.585G         | 63   | 5.401G         | 64   | 5.309G         |
| 65                                                    | 5.525G         | 66   | 5.425G         | 67   | 5.350G         | 68   | 5.302G         |
| 69                                                    | 5.682G         | 70   | 5.276G         | 71   | 5.286G         | 72   | 5.543G         |
| 73                                                    | 5.443G         | 74   | 5.472G         | 75   | 5.574G         | 76   | 5.676G         |
| 77                                                    | 5.260G         | 78   | 5.296G         | 79   | 5.691G         | 80   | 5.655G         |
| 81                                                    | 5.417G         | 82   | 5.504G         | 83   | 5.693G         | 84   | 5.575G         |
| 85                                                    | 5.567G         | 86   | 5.620G         | 87   | 5.586G         | 88   | 5.334G         |
| 89                                                    | 5.263G         | 90   | 5.254G         | 91   | 5.262G         | 92   | 5.375G         |
| 93                                                    | 5.592G         | 94   | 5.570G         | 95   | 5.450G         | 96   | 5.534G         |
| 97                                                    | 5.434G         | 98   | 5.287G         | 99   | 5.723G         | 100  | 5.333G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_10 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.483G         | 2    | 5.642G         | 3    | 5.610G         | 4    | 5.384G         |
| 5                                                     | 5.664G         | 6    | 5.303G         | 7    | 5.690G         | 8    | 5.299G         |
| 9                                                     | 5.454G         | 10   | 5.578G         | 11   | 5.599G         | 12   | 5.706G         |
| 13                                                    | 5.709G         | 14   | 5.392G         | 15   | 5.712G         | 16   | 5.340G         |
| 17                                                    | 5.557G         | 18   | 5.616G         | 19   | 5.398G         | 20   | 5.336G         |
| 21                                                    | 5.379G         | 22   | 5.682G         | 23   | 5.659G         | 24   | 5.598G         |
| 25                                                    | 5.441G         | 26   | 5.443G         | 27   | 5.623G         | 28   | 5.451G         |
| 29                                                    | 5.559G         | 30   | 5.524G         | 31   | 5.369G         | 32   | 5.492G         |
| 33                                                    | 5.635G         | 34   | 5.393G         | 35   | 5.459G         | 36   | 5.375G         |
| 37                                                    | 5.534G         | 38   | 5.596G         | 39   | 5.631G         | 40   | 5.311G         |
| 41                                                    | 5.536G         | 42   | 5.683G         | 43   | 5.641G         | 44   | 5.429G         |
| 45                                                    | 5.445G         | 46   | 5.670G         | 47   | 5.263G         | 48   | 5.260G         |
| 49                                                    | 5.331G         | 50   | 5.630G         | 51   | 5.722G         | 52   | 5.707G         |
| 53                                                    | 5.302G         | 54   | 5.323G         | 55   | 5.390G         | 56   | 5.371G         |
| 57                                                    | 5.636G         | 58   | 5.417G         | 59   | 5.602G         | 60   | 5.306G         |
| 61                                                    | 5.543G         | 62   | 5.420G         | 63   | 5.525G         | 64   | 5.554G         |
| 65                                                    | 5.537G         | 66   | 5.475G         | 67   | 5.488G         | 68   | 5.258G         |
| 69                                                    | 5.552G         | 70   | 5.333G         | 71   | 5.713G         | 72   | 5.446G         |
| 73                                                    | 5.703G         | 74   | 5.553G         | 75   | 5.608G         | 76   | 5.704G         |
| 77                                                    | 5.681G         | 78   | 5.565G         | 79   | 5.282G         | 80   | 5.396G         |
| 81                                                    | 5.448G         | 82   | 5.373G         | 83   | 5.430G         | 84   | 5.676G         |
| 85                                                    | 5.720G         | 86   | 5.414G         | 87   | 5.293G         | 88   | 5.425G         |
| 89                                                    | 5.275G         | 90   | 5.612G         | 91   | 5.252G         | 92   | 5.406G         |
| 93                                                    | 5.319G         | 94   | 5.584G         | 95   | 5.480G         | 96   | 5.370G         |
| 97                                                    | 5.595G         | 98   | 5.699G         | 99   | 5.628G         | 100  | 5.256G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_11 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.611G         | 2    | 5.456G         | 3    | 5.552G         | 4    | 5.683G         |
| 5                                                     | 5.396G         | 6    | 5.724G         | 7    | 5.445G         | 8    | 5.312G         |
| 9                                                     | 5.540G         | 10   | 5.454G         | 11   | 5.631G         | 12   | 5.635G         |
| 13                                                    | 5.599G         | 14   | 5.387G         | 15   | 5.691G         | 16   | 5.370G         |
| 17                                                    | 5.414G         | 18   | 5.281G         | 19   | 5.393G         | 20   | 5.444G         |
| 21                                                    | 5.662G         | 22   | 5.366G         | 23   | 5.389G         | 24   | 5.250G         |
| 25                                                    | 5.719G         | 26   | 5.715G         | 27   | 5.324G         | 28   | 5.384G         |
| 29                                                    | 5.261G         | 30   | 5.467G         | 31   | 5.507G         | 32   | 5.375G         |
| 33                                                    | 5.529G         | 34   | 5.700G         | 35   | 5.610G         | 36   | 5.609G         |
| 37                                                    | 5.575G         | 38   | 5.358G         | 39   | 5.655G         | 40   | 5.502G         |
| 41                                                    | 5.614G         | 42   | 5.287G         | 43   | 5.300G         | 44   | 5.578G         |
| 45                                                    | 5.594G         | 46   | 5.339G         | 47   | 5.288G         | 48   | 5.556G         |
| 49                                                    | 5.504G         | 50   | 5.272G         | 51   | 5.647G         | 52   | 5.251G         |
| 53                                                    | 5.602G         | 54   | 5.412G         | 55   | 5.376G         | 56   | 5.267G         |
| 57                                                    | 5.318G         | 58   | 5.325G         | 59   | 5.439G         | 60   | 5.543G         |
| 61                                                    | 5.517G         | 62   | 5.656G         | 63   | 5.252G         | 64   | 5.419G         |
| 65                                                    | 5.593G         | 66   | 5.453G         | 67   | 5.684G         | 68   | 5.485G         |
| 69                                                    | 5.574G         | 70   | 5.257G         | 71   | 5.345G         | 72   | 5.291G         |
| 73                                                    | 5.617G         | 74   | 5.402G         | 75   | 5.490G         | 76   | 5.435G         |
| 77                                                    | 5.544G         | 78   | 5.511G         | 79   | 5.522G         | 80   | 5.651G         |
| 81                                                    | 5.279G         | 82   | 5.584G         | 83   | 5.436G         | 84   | 5.652G         |
| 85                                                    | 5.269G         | 86   | 5.477G         | 87   | 5.516G         | 88   | 5.344G         |
| 89                                                    | 5.262G         | 90   | 5.595G         | 91   | 5.383G         | 92   | 5.515G         |
| 93                                                    | 5.541G         | 94   | 5.565G         | 95   | 5.675G         | 96   | 5.371G         |
| 97                                                    | 5.542G         | 98   | 5.416G         | 99   | 5.369G         | 100  | 5.559G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_12 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.512G         | 2    | 5.493G         | 3    | 5.313G         | 4    | 5.467G         |
| 5                                                     | 5.634G         | 6    | 5.324G         | 7    | 5.316G         | 8    | 5.357G         |
| 9                                                     | 5.586G         | 10   | 5.715G         | 11   | 5.359G         | 12   | 5.296G         |
| 13                                                    | 5.615G         | 14   | 5.697G         | 15   | 5.279G         | 16   | 5.621G         |
| 17                                                    | 5.464G         | 18   | 5.304G         | 19   | 5.680G         | 20   | 5.379G         |
| 21                                                    | 5.499G         | 22   | 5.302G         | 23   | 5.695G         | 24   | 5.256G         |
| 25                                                    | 5.457G         | 26   | 5.410G         | 27   | 5.508G         | 28   | 5.662G         |
| 29                                                    | 5.723G         | 30   | 5.717G         | 31   | 5.577G         | 32   | 5.255G         |
| 33                                                    | 5.639G         | 34   | 5.674G         | 35   | 5.398G         | 36   | 5.663G         |
| 37                                                    | 5.714G         | 38   | 5.270G         | 39   | 5.607G         | 40   | 5.380G         |
| 41                                                    | 5.694G         | 42   | 5.415G         | 43   | 5.442G         | 44   | 5.482G         |
| 45                                                    | 5.546G         | 46   | 5.556G         | 47   | 5.362G         | 48   | 5.558G         |
| 49                                                    | 5.524G         | 50   | 5.510G         | 51   | 5.453G         | 52   | 5.721G         |
| 53                                                    | 5.455G         | 54   | 5.412G         | 55   | 5.515G         | 56   | 5.439G         |
| 57                                                    | 5.517G         | 58   | 5.319G         | 59   | 5.454G         | 60   | 5.619G         |
| 61                                                    | 5.364G         | 62   | 5.308G         | 63   | 5.298G         | 64   | 5.468G         |
| 65                                                    | 5.340G         | 66   | 5.641G         | 67   | 5.562G         | 68   | 5.495G         |
| 69                                                    | 5.342G         | 70   | 5.705G         | 71   | 5.612G         | 72   | 5.566G         |
| 73                                                    | 5.636G         | 74   | 5.394G         | 75   | 5.630G         | 76   | 5.580G         |
| 77                                                    | 5.418G         | 78   | 5.328G         | 79   | 5.688G         | 80   | 5.374G         |
| 81                                                    | 5.591G         | 82   | 5.438G         | 83   | 5.420G         | 84   | 5.616G         |
| 85                                                    | 5.713G         | 86   | 5.470G         | 87   | 5.545G         | 88   | 5.687G         |
| 89                                                    | 5.305G         | 90   | 5.437G         | 91   | 5.595G         | 92   | 5.707G         |
| 93                                                    | 5.563G         | 94   | 5.322G         | 95   | 5.451G         | 96   | 5.709G         |
| 97                                                    | 5.653G         | 98   | 5.483G         | 99   | 5.363G         | 100  | 5.609G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_13 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.327G         | 2    | 5.438G         | 3    | 5.546G         | 4    | 5.610G         |
| 5                                                     | 5.431G         | 6    | 5.448G         | 7    | 5.702G         | 8    | 5.664G         |
| 9                                                     | 5.659G         | 10   | 5.429G         | 11   | 5.374G         | 12   | 5.686G         |
| 13                                                    | 5.510G         | 14   | 5.636G         | 15   | 5.275G         | 16   | 5.722G         |
| 17                                                    | 5.407G         | 18   | 5.585G         | 19   | 5.335G         | 20   | 5.310G         |
| 21                                                    | 5.522G         | 22   | 5.355G         | 23   | 5.699G         | 24   | 5.458G         |
| 25                                                    | 5.488G         | 26   | 5.525G         | 27   | 5.293G         | 28   | 5.254G         |
| 29                                                    | 5.379G         | 30   | 5.430G         | 31   | 5.693G         | 32   | 5.385G         |
| 33                                                    | 5.502G         | 34   | 5.386G         | 35   | 5.452G         | 36   | 5.697G         |
| 37                                                    | 5.410G         | 38   | 5.551G         | 39   | 5.346G         | 40   | 5.684G         |
| 41                                                    | 5.360G         | 42   | 5.681G         | 43   | 5.506G         | 44   | 5.341G         |
| 45                                                    | 5.666G         | 46   | 5.516G         | 47   | 5.634G         | 48   | 5.381G         |
| 49                                                    | 5.276G         | 50   | 5.279G         | 51   | 5.493G         | 52   | 5.708G         |
| 53                                                    | 5.602G         | 54   | 5.257G         | 55   | 5.406G         | 56   | 5.523G         |
| 57                                                    | 5.267G         | 58   | 5.517G         | 59   | 5.603G         | 60   | 5.723G         |
| 61                                                    | 5.282G         | 62   | 5.589G         | 63   | 5.378G         | 64   | 5.260G         |
| 65                                                    | 5.687G         | 66   | 5.678G         | 67   | 5.537G         | 68   | 5.579G         |
| 69                                                    | 5.656G         | 70   | 5.651G         | 71   | 5.650G         | 72   | 5.445G         |
| 73                                                    | 5.351G         | 74   | 5.526G         | 75   | 5.628G         | 76   | 5.459G         |
| 77                                                    | 5.518G         | 78   | 5.644G         | 79   | 5.611G         | 80   | 5.569G         |
| 81                                                    | 5.672G         | 82   | 5.670G         | 83   | 5.467G         | 84   | 5.620G         |
| 85                                                    | 5.653G         | 86   | 5.689G         | 87   | 5.627G         | 88   | 5.328G         |
| 89                                                    | 5.465G         | 90   | 5.641G         | 91   | 5.482G         | 92   | 5.423G         |
| 93                                                    | 5.476G         | 94   | 5.481G         | 95   | 5.712G         | 96   | 5.599G         |
| 97                                                    | 5.484G         | 98   | 5.633G         | 99   | 5.617G         | 100  | 5.601G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_14 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.681G         | 2    | 5.612G         | 3    | 5.455G         | 4    | 5.489G         |
| 5                                                     | 5.520G         | 6    | 5.375G         | 7    | 5.533G         | 8    | 5.536G         |
| 9                                                     | 5.530G         | 10   | 5.457G         | 11   | 5.309G         | 12   | 5.566G         |
| 13                                                    | 5.558G         | 14   | 5.393G         | 15   | 5.388G         | 16   | 5.408G         |
| 17                                                    | 5.395G         | 18   | 5.675G         | 19   | 5.280G         | 20   | 5.593G         |
| 21                                                    | 5.394G         | 22   | 5.262G         | 23   | 5.548G         | 24   | 5.259G         |
| 25                                                    | 5.282G         | 26   | 5.705G         | 27   | 5.564G         | 28   | 5.600G         |
| 29                                                    | 5.496G         | 30   | 5.378G         | 31   | 5.303G         | 32   | 5.373G         |
| 33                                                    | 5.614G         | 34   | 5.364G         | 35   | 5.413G         | 36   | 5.700G         |
| 37                                                    | 5.507G         | 38   | 5.449G         | 39   | 5.521G         | 40   | 5.418G         |
| 41                                                    | 5.630G         | 42   | 5.471G         | 43   | 5.607G         | 44   | 5.485G         |
| 45                                                    | 5.428G         | 46   | 5.365G         | 47   | 5.290G         | 48   | 5.438G         |
| 49                                                    | 5.472G         | 50   | 5.662G         | 51   | 5.715G         | 52   | 5.347G         |
| 53                                                    | 5.559G         | 54   | 5.286G         | 55   | 5.383G         | 56   | 5.466G         |
| 57                                                    | 5.321G         | 58   | 5.389G         | 59   | 5.516G         | 60   | 5.490G         |
| 61                                                    | 5.351G         | 62   | 5.580G         | 63   | 5.433G         | 64   | 5.546G         |
| 65                                                    | 5.305G         | 66   | 5.642G         | 67   | 5.461G         | 68   | 5.563G         |
| 69                                                    | 5.648G         | 70   | 5.721G         | 71   | 5.481G         | 72   | 5.582G         |
| 73                                                    | 5.423G         | 74   | 5.606G         | 75   | 5.341G         | 76   | 5.579G         |
| 77                                                    | 5.358G         | 78   | 5.340G         | 79   | 5.510G         | 80   | 5.572G         |
| 81                                                    | 5.430G         | 82   | 5.476G         | 83   | 5.469G         | 84   | 5.325G         |
| 85                                                    | 5.277G         | 86   | 5.658G         | 87   | 5.583G         | 88   | 5.676G         |
| 89                                                    | 5.632G         | 90   | 5.439G         | 91   | 5.336G         | 92   | 5.634G         |
| 93                                                    | 5.400G         | 94   | 5.650G         | 95   | 5.354G         | 96   | 5.441G         |
| 97                                                    | 5.414G         | 98   | 5.492G         | 99   | 5.714G         | 100  | 5.369G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_15 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.459G         | 2    | 5.517G         | 3    | 5.509G         | 4    | 5.656G         |
| 5                                                     | 5.416G         | 6    | 5.710G         | 7    | 5.633G         | 8    | 5.587G         |
| 9                                                     | 5.346G         | 10   | 5.620G         | 11   | 5.350G         | 12   | 5.445G         |
| 13                                                    | 5.481G         | 14   | 5.409G         | 15   | 5.692G         | 16   | 5.659G         |
| 17                                                    | 5.684G         | 18   | 5.583G         | 19   | 5.391G         | 20   | 5.687G         |
| 21                                                    | 5.492G         | 22   | 5.299G         | 23   | 5.373G         | 24   | 5.463G         |
| 25                                                    | 5.723G         | 26   | 5.402G         | 27   | 5.542G         | 28   | 5.351G         |
| 29                                                    | 5.298G         | 30   | 5.294G         | 31   | 5.340G         | 32   | 5.398G         |
| 33                                                    | 5.689G         | 34   | 5.257G         | 35   | 5.377G         | 36   | 5.513G         |
| 37                                                    | 5.372G         | 38   | 5.711G         | 39   | 5.375G         | 40   | 5.566G         |
| 41                                                    | 5.424G         | 42   | 5.612G         | 43   | 5.543G         | 44   | 5.511G         |
| 45                                                    | 5.577G         | 46   | 5.671G         | 47   | 5.545G         | 48   | 5.712G         |
| 49                                                    | 5.634G         | 50   | 5.567G         | 51   | 5.572G         | 52   | 5.305G         |
| 53                                                    | 5.477G         | 54   | 5.610G         | 55   | 5.314G         | 56   | 5.645G         |
| 57                                                    | 5.596G         | 58   | 5.720G         | 59   | 5.713G         | 60   | 5.413G         |
| 61                                                    | 5.519G         | 62   | 5.721G         | 63   | 5.443G         | 64   | 5.382G         |
| 65                                                    | 5.297G         | 66   | 5.353G         | 67   | 5.263G         | 68   | 5.338G         |
| 69                                                    | 5.343G         | 70   | 5.383G         | 71   | 5.358G         | 72   | 5.367G         |
| 73                                                    | 5.565G         | 74   | 5.595G         | 75   | 5.379G         | 76   | 5.480G         |
| 77                                                    | 5.606G         | 78   | 5.277G         | 79   | 5.390G         | 80   | 5.688G         |
| 81                                                    | 5.374G         | 82   | 5.493G         | 83   | 5.562G         | 84   | 5.648G         |
| 85                                                    | 5.458G         | 86   | 5.563G         | 87   | 5.611G         | 88   | 5.400G         |
| 89                                                    | 5.550G         | 90   | 5.661G         | 91   | 5.529G         | 92   | 5.312G         |
| 93                                                    | 5.334G         | 94   | 5.551G         | 95   | 5.304G         | 96   | 5.330G         |
| 97                                                    | 5.408G         | 98   | 5.524G         | 99   | 5.488G         | 100  | 5.499G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_16 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.433G         | 2    | 5.320G         | 3    | 5.628G         | 4    | 5.470G         |
| 5                                                     | 5.411G         | 6    | 5.456G         | 7    | 5.260G         | 8    | 5.363G         |
| 9                                                     | 5.592G         | 10   | 5.668G         | 11   | 5.317G         | 12   | 5.307G         |
| 13                                                    | 5.473G         | 14   | 5.535G         | 15   | 5.425G         | 16   | 5.441G         |
| 17                                                    | 5.285G         | 18   | 5.687G         | 19   | 5.650G         | 20   | 5.616G         |
| 21                                                    | 5.467G         | 22   | 5.492G         | 23   | 5.627G         | 24   | 5.698G         |
| 25                                                    | 5.713G         | 26   | 5.537G         | 27   | 5.624G         | 28   | 5.426G         |
| 29                                                    | 5.622G         | 30   | 5.265G         | 31   | 5.533G         | 32   | 5.534G         |
| 33                                                    | 5.345G         | 34   | 5.486G         | 35   | 5.631G         | 36   | 5.398G         |
| 37                                                    | 5.280G         | 38   | 5.501G         | 39   | 5.271G         | 40   | 5.342G         |
| 41                                                    | 5.675G         | 42   | 5.676G         | 43   | 5.479G         | 44   | 5.603G         |
| 45                                                    | 5.451G         | 46   | 5.655G         | 47   | 5.278G         | 48   | 5.605G         |
| 49                                                    | 5.567G         | 50   | 5.333G         | 51   | 5.664G         | 52   | 5.708G         |
| 53                                                    | 5.384G         | 54   | 5.484G         | 55   | 5.444G         | 56   | 5.614G         |
| 57                                                    | 5.360G         | 58   | 5.469G         | 59   | 5.367G         | 60   | 5.268G         |
| 61                                                    | 5.611G         | 62   | 5.250G         | 63   | 5.619G         | 64   | 5.328G         |
| 65                                                    | 5.637G         | 66   | 5.563G         | 67   | 5.335G         | 68   | 5.575G         |
| 69                                                    | 5.406G         | 70   | 5.548G         | 71   | 5.287G         | 72   | 5.717G         |
| 73                                                    | 5.557G         | 74   | 5.712G         | 75   | 5.288G         | 76   | 5.475G         |
| 77                                                    | 5.706G         | 78   | 5.283G         | 79   | 5.302G         | 80   | 5.488G         |
| 81                                                    | 5.639G         | 82   | 5.290G         | 83   | 5.308G         | 84   | 5.413G         |
| 85                                                    | 5.690G         | 86   | 5.435G         | 87   | 5.625G         | 88   | 5.279G         |
| 89                                                    | 5.291G         | 90   | 5.437G         | 91   | 5.691G         | 92   | 5.315G         |
| 93                                                    | 5.709G         | 94   | 5.397G         | 95   | 5.344G         | 96   | 5.296G         |
| 97                                                    | 5.253G         | 98   | 5.700G         | 99   | 5.452G         | 100  | 5.577G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_17 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.644G         | 2    | 5.392G         | 3    | 5.560G         | 4    | 5.293G         |
| 5                                                     | 5.523G         | 6    | 5.515G         | 7    | 5.518G         | 8    | 5.352G         |
| 9                                                     | 5.613G         | 10   | 5.277G         | 11   | 5.572G         | 12   | 5.482G         |
| 13                                                    | 5.301G         | 14   | 5.264G         | 15   | 5.320G         | 16   | 5.329G         |
| 17                                                    | 5.378G         | 18   | 5.708G         | 19   | 5.531G         | 20   | 5.291G         |
| 21                                                    | 5.289G         | 22   | 5.408G         | 23   | 5.509G         | 24   | 5.661G         |
| 25                                                    | 5.279G         | 26   | 5.642G         | 27   | 5.367G         | 28   | 5.270G         |
| 29                                                    | 5.374G         | 30   | 5.423G         | 31   | 5.414G         | 32   | 5.627G         |
| 33                                                    | 5.599G         | 34   | 5.267G         | 35   | 5.499G         | 36   | 5.501G         |
| 37                                                    | 5.456G         | 38   | 5.675G         | 39   | 5.578G         | 40   | 5.442G         |
| 41                                                    | 5.272G         | 42   | 5.432G         | 43   | 5.581G         | 44   | 5.682G         |
| 45                                                    | 5.689G         | 46   | 5.450G         | 47   | 5.418G         | 48   | 5.331G         |
| 49                                                    | 5.349G         | 50   | 5.591G         | 51   | 5.252G         | 52   | 5.525G         |
| 53                                                    | 5.379G         | 54   | 5.342G         | 55   | 5.466G         | 56   | 5.649G         |
| 57                                                    | 5.609G         | 58   | 5.375G         | 59   | 5.519G         | 60   | 5.656G         |
| 61                                                    | 5.310G         | 62   | 5.261G         | 63   | 5.713G         | 64   | 5.384G         |
| 65                                                    | 5.629G         | 66   | 5.588G         | 67   | 5.488G         | 68   | 5.704G         |
| 69                                                    | 5.382G         | 70   | 5.427G         | 71   | 5.416G         | 72   | 5.477G         |
| 73                                                    | 5.720G         | 74   | 5.711G         | 75   | 5.309G         | 76   | 5.665G         |
| 77                                                    | 5.391G         | 78   | 5.250G         | 79   | 5.639G         | 80   | 5.701G         |
| 81                                                    | 5.667G         | 82   | 5.547G         | 83   | 5.346G         | 84   | 5.260G         |
| 85                                                    | 5.559G         | 86   | 5.461G         | 87   | 5.500G         | 88   | 5.465G         |
| 89                                                    | 5.604G         | 90   | 5.415G         | 91   | 5.341G         | 92   | 5.288G         |
| 93                                                    | 5.473G         | 94   | 5.258G         | 95   | 5.617G         | 96   | 5.687G         |
| 97                                                    | 5.355G         | 98   | 5.685G         | 99   | 5.469G         | 100  | 5.368G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_18 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.369G         | 2    | 5.524G         | 3    | 5.453G         | 4    | 5.310G         |
| 5                                                     | 5.272G         | 6    | 5.474G         | 7    | 5.533G         | 8    | 5.603G         |
| 9                                                     | 5.473G         | 10   | 5.568G         | 11   | 5.433G         | 12   | 5.290G         |
| 13                                                    | 5.353G         | 14   | 5.343G         | 15   | 5.437G         | 16   | 5.377G         |
| 17                                                    | 5.679G         | 18   | 5.431G         | 19   | 5.313G         | 20   | 5.259G         |
| 21                                                    | 5.582G         | 22   | 5.354G         | 23   | 5.614G         | 24   | 5.262G         |
| 25                                                    | 5.523G         | 26   | 5.598G         | 27   | 5.556G         | 28   | 5.537G         |
| 29                                                    | 5.555G         | 30   | 5.589G         | 31   | 5.328G         | 32   | 5.499G         |
| 33                                                    | 5.660G         | 34   | 5.618G         | 35   | 5.344G         | 36   | 5.713G         |
| 37                                                    | 5.267G         | 38   | 5.371G         | 39   | 5.337G         | 40   | 5.298G         |
| 41                                                    | 5.571G         | 42   | 5.705G         | 43   | 5.677G         | 44   | 5.622G         |
| 45                                                    | 5.422G         | 46   | 5.650G         | 47   | 5.633G         | 48   | 5.592G         |
| 49                                                    | 5.634G         | 50   | 5.609G         | 51   | 5.289G         | 52   | 5.698G         |
| 53                                                    | 5.416G         | 54   | 5.335G         | 55   | 5.383G         | 56   | 5.521G         |
| 57                                                    | 5.459G         | 58   | 5.464G         | 59   | 5.309G         | 60   | 5.392G         |
| 61                                                    | 5.541G         | 62   | 5.338G         | 63   | 5.561G         | 64   | 5.388G         |
| 65                                                    | 5.358G         | 66   | 5.714G         | 67   | 5.670G         | 68   | 5.395G         |
| 69                                                    | 5.515G         | 70   | 5.432G         | 71   | 5.312G         | 72   | 5.283G         |
| 73                                                    | 5.511G         | 74   | 5.588G         | 75   | 5.577G         | 76   | 5.496G         |
| 77                                                    | 5.708G         | 78   | 5.282G         | 79   | 5.695G         | 80   | 5.379G         |
| 81                                                    | 5.454G         | 82   | 5.250G         | 83   | 5.317G         | 84   | 5.538G         |
| 85                                                    | 5.403G         | 86   | 5.279G         | 87   | 5.724G         | 88   | 5.441G         |
| 89                                                    | 5.325G         | 90   | 5.373G         | 91   | 5.254G         | 92   | 5.331G         |
| 93                                                    | 5.488G         | 94   | 5.481G         | 95   | 5.389G         | 96   | 5.718G         |
| 97                                                    | 5.351G         | 98   | 5.490G         | 99   | 5.390G         | 100  | 5.638G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_19 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.272G         | 2    | 5.352G         | 3    | 5.314G         | 4    | 5.687G         |
| 5                                                     | 5.455G         | 6    | 5.266G         | 7    | 5.297G         | 8    | 5.362G         |
| 9                                                     | 5.709G         | 10   | 5.292G         | 11   | 5.253G         | 12   | 5.321G         |
| 13                                                    | 5.273G         | 14   | 5.663G         | 15   | 5.621G         | 16   | 5.293G         |
| 17                                                    | 5.525G         | 18   | 5.419G         | 19   | 5.635G         | 20   | 5.530G         |
| 21                                                    | 5.354G         | 22   | 5.548G         | 23   | 5.251G         | 24   | 5.412G         |
| 25                                                    | 5.284G         | 26   | 5.409G         | 27   | 5.631G         | 28   | 5.399G         |
| 29                                                    | 5.252G         | 30   | 5.446G         | 31   | 5.626G         | 32   | 5.681G         |
| 33                                                    | 5.417G         | 34   | 5.529G         | 35   | 5.349G         | 36   | 5.491G         |
| 37                                                    | 5.638G         | 38   | 5.506G         | 39   | 5.440G         | 40   | 5.344G         |
| 41                                                    | 5.457G         | 42   | 5.434G         | 43   | 5.694G         | 44   | 5.264G         |
| 45                                                    | 5.338G         | 46   | 5.489G         | 47   | 5.487G         | 48   | 5.573G         |
| 49                                                    | 5.461G         | 50   | 5.410G         | 51   | 5.516G         | 52   | 5.559G         |
| 53                                                    | 5.341G         | 54   | 5.588G         | 55   | 5.496G         | 56   | 5.517G         |
| 57                                                    | 5.637G         | 58   | 5.701G         | 59   | 5.413G         | 60   | 5.584G         |
| 61                                                    | 5.448G         | 62   | 5.533G         | 63   | 5.437G         | 64   | 5.334G         |
| 65                                                    | 5.609G         | 66   | 5.324G         | 67   | 5.707G         | 68   | 5.335G         |
| 69                                                    | 5.339G         | 70   | 5.632G         | 71   | 5.667G         | 72   | 5.310G         |
| 73                                                    | 5.356G         | 74   | 5.563G         | 75   | 5.269G         | 76   | 5.664G         |
| 77                                                    | 5.503G         | 78   | 5.617G         | 79   | 5.715G         | 80   | 5.562G         |
| 81                                                    | 5.536G         | 82   | 5.401G         | 83   | 5.659G         | 84   | 5.645G         |
| 85                                                    | 5.524G         | 86   | 5.535G         | 87   | 5.265G         | 88   | 5.442G         |
| 89                                                    | 5.260G         | 90   | 5.490G         | 91   | 5.288G         | 92   | 5.505G         |
| 93                                                    | 5.566G         | 94   | 5.595G         | 95   | 5.308G         | 96   | 5.435G         |
| 97                                                    | 5.464G         | 98   | 5.454G         | 99   | 5.550G         | 100  | 5.418G         |

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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_20 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.704G         | 2    | 5.593G         | 3    | 5.536G         | 4    | 5.282G         |
| 5                                                     | 5.616G         | 6    | 5.605G         | 7    | 5.649G         | 8    | 5.423G         |
| 9                                                     | 5.361G         | 10   | 5.419G         | 11   | 5.666G         | 12   | 5.487G         |
| 13                                                    | 5.465G         | 14   | 5.655G         | 15   | 5.656G         | 16   | 5.663G         |
| 17                                                    | 5.678G         | 18   | 5.391G         | 19   | 5.458G         | 20   | 5.400G         |
| 21                                                    | 5.516G         | 22   | 5.613G         | 23   | 5.672G         | 24   | 5.675G         |
| 25                                                    | 5.401G         | 26   | 5.425G         | 27   | 5.555G         | 28   | 5.435G         |
| 29                                                    | 5.707G         | 30   | 5.529G         | 31   | 5.553G         | 32   | 5.577G         |
| 33                                                    | 5.578G         | 34   | 5.359G         | 35   | 5.690G         | 36   | 5.539G         |
| 37                                                    | 5.654G         | 38   | 5.548G         | 39   | 5.697G         | 40   | 5.328G         |
| 41                                                    | 5.604G         | 42   | 5.705G         | 43   | 5.607G         | 44   | 5.511G         |
| 45                                                    | 5.292G         | 46   | 5.687G         | 47   | 5.326G         | 48   | 5.376G         |
| 49                                                    | 5.377G         | 50   | 5.279G         | 51   | 5.708G         | 52   | 5.455G         |
| 53                                                    | 5.428G         | 54   | 5.310G         | 55   | 5.265G         | 56   | 5.646G         |
| 57                                                    | 5.263G         | 58   | 5.701G         | 59   | 5.575G         | 60   | 5.566G         |
| 61                                                    | 5.348G         | 62   | 5.332G         | 63   | 5.471G         | 64   | 5.352G         |
| 65                                                    | 5.551G         | 66   | 5.521G         | 67   | 5.501G         | 68   | 5.537G         |
| 69                                                    | 5.424G         | 70   | 5.590G         | 71   | 5.652G         | 72   | 5.635G         |
| 73                                                    | 5.580G         | 74   | 5.660G         | 75   | 5.444G         | 76   | 5.283G         |
| 77                                                    | 5.527G         | 78   | 5.619G         | 79   | 5.313G         | 80   | 5.257G         |
| 81                                                    | 5.680G         | 82   | 5.589G         | 83   | 5.460G         | 84   | 5.583G         |
| 85                                                    | 5.298G         | 86   | 5.535G         | 87   | 5.468G         | 88   | 5.662G         |
| 89                                                    | 5.579G         | 90   | 5.262G         | 91   | 5.286G         | 92   | 5.269G         |
| 93                                                    | 5.661G         | 94   | 5.650G         | 95   | 5.509G         | 96   | 5.657G         |
| 97                                                    | 5.329G         | 98   | 5.615G         | 99   | 5.679G         | 100  | 5.275G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_21 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.332G         | 2    | 5.255G         | 3    | 5.329G         | 4    | 5.304G         |
| 5                                                     | 5.551G         | 6    | 5.624G         | 7    | 5.548G         | 8    | 5.386G         |
| 9                                                     | 5.654G         | 10   | 5.282G         | 11   | 5.305G         | 12   | 5.690G         |
| 13                                                    | 5.412G         | 14   | 5.335G         | 15   | 5.268G         | 16   | 5.538G         |
| 17                                                    | 5.449G         | 18   | 5.411G         | 19   | 5.525G         | 20   | 5.635G         |
| 21                                                    | 5.649G         | 22   | 5.526G         | 23   | 5.626G         | 24   | 5.536G         |
| 25                                                    | 5.559G         | 26   | 5.478G         | 27   | 5.295G         | 28   | 5.269G         |
| 29                                                    | 5.505G         | 30   | 5.597G         | 31   | 5.373G         | 32   | 5.369G         |
| 33                                                    | 5.593G         | 34   | 5.554G         | 35   | 5.278G         | 36   | 5.560G         |
| 37                                                    | 5.632G         | 38   | 5.550G         | 39   | 5.302G         | 40   | 5.466G         |
| 41                                                    | 5.584G         | 42   | 5.334G         | 43   | 5.553G         | 44   | 5.377G         |
| 45                                                    | 5.472G         | 46   | 5.511G         | 47   | 5.477G         | 48   | 5.567G         |
| 49                                                    | 5.400G         | 50   | 5.430G         | 51   | 5.290G         | 52   | 5.664G         |
| 53                                                    | 5.571G         | 54   | 5.506G         | 55   | 5.464G         | 56   | 5.531G         |
| 57                                                    | 5.271G         | 58   | 5.350G         | 59   | 5.299G         | 60   | 5.250G         |
| 61                                                    | 5.594G         | 62   | 5.541G         | 63   | 5.512G         | 64   | 5.416G         |
| 65                                                    | 5.619G         | 66   | 5.427G         | 67   | 5.581G         | 68   | 5.309G         |
| 69                                                    | 5.580G         | 70   | 5.454G         | 71   | 5.681G         | 72   | 5.421G         |
| 73                                                    | 5.634G         | 74   | 5.403G         | 75   | 5.557G         | 76   | 5.382G         |
| 77                                                    | 5.600G         | 78   | 5.706G         | 79   | 5.645G         | 80   | 5.564G         |
| 81                                                    | 5.263G         | 82   | 5.497G         | 83   | 5.428G         | 84   | 5.389G         |
| 85                                                    | 5.451G         | 86   | 5.692G         | 87   | 5.322G         | 88   | 5.262G         |
| 89                                                    | 5.317G         | 90   | 5.397G         | 91   | 5.401G         | 92   | 5.300G         |
| 93                                                    | 5.546G         | 94   | 5.470G         | 95   | 5.289G         | 96   | 5.611G         |
| 97                                                    | 5.610G         | 98   | 5.530G         | 99   | 5.631G         | 100  | 5.486G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_22 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.582G         | 2    | 5.710G         | 3    | 5.687G         | 4    | 5.518G         |
| 5                                                     | 5.298G         | 6    | 5.579G         | 7    | 5.411G         | 8    | 5.477G         |
| 9                                                     | 5.355G         | 10   | 5.272G         | 11   | 5.495G         | 12   | 5.553G         |
| 13                                                    | 5.479G         | 14   | 5.427G         | 15   | 5.280G         | 16   | 5.357G         |
| 17                                                    | 5.612G         | 18   | 5.490G         | 19   | 5.593G         | 20   | 5.645G         |
| 21                                                    | 5.624G         | 22   | 5.574G         | 23   | 5.284G         | 24   | 5.340G         |
| 25                                                    | 5.521G         | 26   | 5.585G         | 27   | 5.438G         | 28   | 5.323G         |
| 29                                                    | 5.442G         | 30   | 5.547G         | 31   | 5.613G         | 32   | 5.485G         |
| 33                                                    | 5.389G         | 34   | 5.472G         | 35   | 5.526G         | 36   | 5.640G         |
| 37                                                    | 5.326G         | 38   | 5.536G         | 39   | 5.395G         | 40   | 5.445G         |
| 41                                                    | 5.504G         | 42   | 5.347G         | 43   | 5.310G         | 44   | 5.492G         |
| 45                                                    | 5.556G         | 46   | 5.654G         | 47   | 5.320G         | 48   | 5.680G         |
| 49                                                    | 5.515G         | 50   | 5.384G         | 51   | 5.630G         | 52   | 5.568G         |
| 53                                                    | 5.418G         | 54   | 5.588G         | 55   | 5.422G         | 56   | 5.290G         |
| 57                                                    | 5.430G         | 58   | 5.255G         | 59   | 5.464G         | 60   | 5.643G         |
| 61                                                    | 5.417G         | 62   | 5.689G         | 63   | 5.558G         | 64   | 5.661G         |
| 65                                                    | 5.449G         | 66   | 5.483G         | 67   | 5.435G         | 68   | 5.372G         |
| 69                                                    | 5.503G         | 70   | 5.259G         | 71   | 5.279G         | 72   | 5.446G         |
| 73                                                    | 5.437G         | 74   | 5.325G         | 75   | 5.520G         | 76   | 5.605G         |
| 77                                                    | 5.529G         | 78   | 5.620G         | 79   | 5.657G         | 80   | 5.496G         |
| 81                                                    | 5.522G         | 82   | 5.460G         | 83   | 5.674G         | 84   | 5.329G         |
| 85                                                    | 5.459G         | 86   | 5.414G         | 87   | 5.686G         | 88   | 5.463G         |
| 89                                                    | 5.468G         | 90   | 5.703G         | 91   | 5.594G         | 92   | 5.683G         |
| 93                                                    | 5.461G         | 94   | 5.377G         | 95   | 5.277G         | 96   | 5.699G         |
| 97                                                    | 5.658G         | 98   | 5.704G         | 99   | 5.283G         | 100  | 5.517G         |





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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_23 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.454G         | 2    | 5.448G         | 3    | 5.406G         | 4    | 5.260G         |
| 5                                                     | 5.422G         | 6    | 5.389G         | 7    | 5.431G         | 8    | 5.613G         |
| 9                                                     | 5.657G         | 10   | 5.562G         | 11   | 5.707G         | 12   | 5.459G         |
| 13                                                    | 5.671G         | 14   | 5.319G         | 15   | 5.508G         | 16   | 5.370G         |
| 17                                                    | 5.668G         | 18   | 5.572G         | 19   | 5.718G         | 20   | 5.501G         |
| 21                                                    | 5.656G         | 22   | 5.710G         | 23   | 5.285G         | 24   | 5.292G         |
| 25                                                    | 5.299G         | 26   | 5.662G         | 27   | 5.437G         | 28   | 5.344G         |
| 29                                                    | 5.357G         | 30   | 5.404G         | 31   | 5.293G         | 32   | 5.456G         |
| 33                                                    | 5.504G         | 34   | 5.359G         | 35   | 5.440G         | 36   | 5.605G         |
| 37                                                    | 5.382G         | 38   | 5.290G         | 39   | 5.439G         | 40   | 5.339G         |
| 41                                                    | 5.262G         | 42   | 5.608G         | 43   | 5.500G         | 44   | 5.341G         |
| 45                                                    | 5.449G         | 46   | 5.468G         | 47   | 5.447G         | 48   | 5.425G         |
| 49                                                    | 5.686G         | 50   | 5.614G         | 51   | 5.466G         | 52   | 5.651G         |
| 53                                                    | 5.565G         | 54   | 5.529G         | 55   | 5.486G         | 56   | 5.506G         |
| 57                                                    | 5.253G         | 58   | 5.415G         | 59   | 5.396G         | 60   | 5.523G         |
| 61                                                    | 5.412G         | 62   | 5.333G         | 63   | 5.628G         | 64   | 5.298G         |
| 65                                                    | 5.349G         | 66   | 5.511G         | 67   | 5.351G         | 68   | 5.558G         |
| 69                                                    | 5.272G         | 70   | 5.549G         | 71   | 5.410G         | 72   | 5.530G         |
| 73                                                    | 5.343G         | 74   | 5.484G         | 75   | 5.348G         | 76   | 5.417G         |
| 77                                                    | 5.552G         | 78   | 5.358G         | 79   | 5.649G         | 80   | 5.724G         |
| 81                                                    | 5.430G         | 82   | 5.460G         | 83   | 5.307G         | 84   | 5.528G         |
| 85                                                    | 5.386G         | 86   | 5.498G         | 87   | 5.542G         | 88   | 5.597G         |
| 89                                                    | 5.485G         | 90   | 5.294G         | 91   | 5.669G         | 92   | 5.337G         |
| 93                                                    | 5.268G         | 94   | 5.570G         | 95   | 5.296G         | 96   | 5.698G         |
| 97                                                    | 5.401G         | 98   | 5.391G         | 99   | 5.619G         | 100  | 5.721G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_24 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.591G         | 2    | 5.399G         | 3    | 5.481G         | 4    | 5.416G         |
| 5                                                     | 5.516G         | 6    | 5.526G         | 7    | 5.440G         | 8    | 5.599G         |
| 9                                                     | 5.617G         | 10   | 5.561G         | 11   | 5.573G         | 12   | 5.266G         |
| 13                                                    | 5.392G         | 14   | 5.675G         | 15   | 5.277G         | 16   | 5.354G         |
| 17                                                    | 5.639G         | 18   | 5.292G         | 19   | 5.262G         | 20   | 5.511G         |
| 21                                                    | 5.683G         | 22   | 5.641G         | 23   | 5.523G         | 24   | 5.702G         |
| 25                                                    | 5.372G         | 26   | 5.380G         | 27   | 5.313G         | 28   | 5.620G         |
| 29                                                    | 5.420G         | 30   | 5.583G         | 31   | 5.361G         | 32   | 5.594G         |
| 33                                                    | 5.664G         | 34   | 5.706G         | 35   | 5.580G         | 36   | 5.668G         |
| 37                                                    | 5.427G         | 38   | 5.402G         | 39   | 5.711G         | 40   | 5.255G         |
| 41                                                    | 5.317G         | 42   | 5.691G         | 43   | 5.593G         | 44   | 5.502G         |
| 45                                                    | 5.656G         | 46   | 5.348G         | 47   | 5.696G         | 48   | 5.415G         |
| 49                                                    | 5.604G         | 50   | 5.383G         | 51   | 5.306G         | 52   | 5.567G         |
| 53                                                    | 5.559G         | 54   | 5.358G         | 55   | 5.655G         | 56   | 5.446G         |
| 57                                                    | 5.708G         | 58   | 5.529G         | 59   | 5.587G         | 60   | 5.477G         |
| 61                                                    | 5.273G         | 62   | 5.606G         | 63   | 5.462G         | 64   | 5.588G         |
| 65                                                    | 5.278G         | 66   | 5.428G         | 67   | 5.330G         | 68   | 5.406G         |
| 69                                                    | 5.469G         | 70   | 5.331G         | 71   | 5.433G         | 72   | 5.356G         |
| 73                                                    | 5.281G         | 74   | 5.718G         | 75   | 5.431G         | 76   | 5.537G         |
| 77                                                    | 5.471G         | 78   | 5.363G         | 79   | 5.271G         | 80   | 5.259G         |
| 81                                                    | 5.425G         | 82   | 5.414G         | 83   | 5.343G         | 84   | 5.467G         |
| 85                                                    | 5.288G         | 86   | 5.352G         | 87   | 5.315G         | 88   | 5.370G         |
| 89                                                    | 5.677G         | 90   | 5.325G         | 91   | 5.556G         | 92   | 5.305G         |
| 93                                                    | 5.301G         | 94   | 5.551G         | 95   | 5.250G         | 96   | 5.302G         |
| 97                                                    | 5.700G         | 98   | 5.712G         | 99   | 5.643G         | 100  | 5.566G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_25 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.541G         | 2    | 5.657G         | 3    | 5.405G         | 4    | 5.321G         |
| 5                                                     | 5.282G         | 6    | 5.707G         | 7    | 5.498G         | 8    | 5.435G         |
| 9                                                     | 5.327G         | 10   | 5.451G         | 11   | 5.558G         | 12   | 5.265G         |
| 13                                                    | 5.310G         | 14   | 5.665G         | 15   | 5.340G         | 16   | 5.324G         |
| 17                                                    | 5.402G         | 18   | 5.496G         | 19   | 5.400G         | 20   | 5.654G         |
| 21                                                    | 5.311G         | 22   | 5.609G         | 23   | 5.637G         | 24   | 5.547G         |
| 25                                                    | 5.414G         | 26   | 5.449G         | 27   | 5.702G         | 28   | 5.293G         |
| 29                                                    | 5.452G         | 30   | 5.475G         | 31   | 5.306G         | 32   | 5.512G         |
| 33                                                    | 5.369G         | 34   | 5.661G         | 35   | 5.261G         | 36   | 5.722G         |
| 37                                                    | 5.570G         | 38   | 5.506G         | 39   | 5.326G         | 40   | 5.638G         |
| 41                                                    | 5.278G         | 42   | 5.404G         | 43   | 5.421G         | 44   | 5.505G         |
| 45                                                    | 5.515G         | 46   | 5.319G         | 47   | 5.681G         | 48   | 5.566G         |
| 49                                                    | 5.511G         | 50   | 5.612G         | 51   | 5.429G         | 52   | 5.582G         |
| 53                                                    | 5.450G         | 54   | 5.539G         | 55   | 5.480G         | 56   | 5.298G         |
| 57                                                    | 5.594G         | 58   | 5.465G         | 59   | 5.290G         | 60   | 5.427G         |
| 61                                                    | 5.296G         | 62   | 5.472G         | 63   | 5.523G         | 64   | 5.255G         |
| 65                                                    | 5.628G         | 66   | 5.583G         | 67   | 5.357G         | 68   | 5.676G         |
| 69                                                    | 5.569G         | 70   | 5.361G         | 71   | 5.288G         | 72   | 5.508G         |
| 73                                                    | 5.425G         | 74   | 5.374G         | 75   | 5.699G         | 76   | 5.618G         |
| 77                                                    | 5.256G         | 78   | 5.379G         | 79   | 5.453G         | 80   | 5.299G         |
| 81                                                    | 5.538G         | 82   | 5.531G         | 83   | 5.647G         | 84   | 5.461G         |
| 85                                                    | 5.678G         | 86   | 5.683G         | 87   | 5.448G         | 88   | 5.551G         |
| 89                                                    | 5.315G         | 90   | 5.546G         | 91   | 5.724G         | 92   | 5.660G         |
| 93                                                    | 5.671G         | 94   | 5.484G         | 95   | 5.325G         | 96   | 5.301G         |
| 97                                                    | 5.410G         | 98   | 5.307G         | 99   | 5.560G         | 100  | 5.317G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_26 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.328G         | 2    | 5.426G         | 3    | 5.695G         | 4    | 5.549G         |
| 5                                                     | 5.444G         | 6    | 5.470G         | 7    | 5.539G         | 8    | 5.366G         |
| 9                                                     | 5.304G         | 10   | 5.512G         | 11   | 5.404G         | 12   | 5.269G         |
| 13                                                    | 5.259G         | 14   | 5.568G         | 15   | 5.258G         | 16   | 5.394G         |
| 17                                                    | 5.685G         | 18   | 5.582G         | 19   | 5.556G         | 20   | 5.262G         |
| 21                                                    | 5.257G         | 22   | 5.719G         | 23   | 5.585G         | 24   | 5.619G         |
| 25                                                    | 5.718G         | 26   | 5.606G         | 27   | 5.369G         | 28   | 5.287G         |
| 29                                                    | 5.457G         | 30   | 5.676G         | 31   | 5.412G         | 32   | 5.360G         |
| 33                                                    | 5.649G         | 34   | 5.565G         | 35   | 5.396G         | 36   | 5.371G         |
| 37                                                    | 5.471G         | 38   | 5.607G         | 39   | 5.579G         | 40   | 5.530G         |
| 41                                                    | 5.276G         | 42   | 5.466G         | 43   | 5.467G         | 44   | 5.350G         |
| 45                                                    | 5.320G         | 46   | 5.453G         | 47   | 5.395G         | 48   | 5.401G         |
| 49                                                    | 5.267G         | 50   | 5.533G         | 51   | 5.610G         | 52   | 5.432G         |
| 53                                                    | 5.635G         | 54   | 5.275G         | 55   | 5.552G         | 56   | 5.439G         |
| 57                                                    | 5.410G         | 58   | 5.344G         | 59   | 5.349G         | 60   | 5.423G         |
| 61                                                    | 5.698G         | 62   | 5.415G         | 63   | 5.321G         | 64   | 5.480G         |
| 65                                                    | 5.309G         | 66   | 5.592G         | 67   | 5.252G         | 68   | 5.499G         |
| 69                                                    | 5.544G         | 70   | 5.597G         | 71   | 5.587G         | 72   | 5.354G         |
| 73                                                    | 5.603G         | 74   | 5.402G         | 75   | 5.272G         | 76   | 5.497G         |
| 77                                                    | 5.292G         | 78   | 5.622G         | 79   | 5.337G         | 80   | 5.414G         |
| 81                                                    | 5.387G         | 82   | 5.722G         | 83   | 5.388G         | 84   | 5.256G         |
| 85                                                    | 5.498G         | 86   | 5.515G         | 87   | 5.600G         | 88   | 5.713G         |
| 89                                                    | 5.345G         | 90   | 5.376G         | 91   | 5.348G         | 92   | 5.629G         |
| 93                                                    | 5.605G         | 94   | 5.589G         | 95   | 5.422G         | 96   | 5.326G         |
| 97                                                    | 5.357G         | 98   | 5.567G         | 99   | 5.576G         | 100  | 5.305G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_27 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.558G         | 2    | 5.511G         | 3    | 5.286G         | 4    | 5.314G         |
| 5                                                     | 5.680G         | 6    | 5.614G         | 7    | 5.361G         | 8    | 5.423G         |
| 9                                                     | 5.664G         | 10   | 5.599G         | 11   | 5.658G         | 12   | 5.620G         |
| 13                                                    | 5.543G         | 14   | 5.722G         | 15   | 5.612G         | 16   | 5.544G         |
| 17                                                    | 5.462G         | 18   | 5.393G         | 19   | 5.259G         | 20   | 5.360G         |
| 21                                                    | 5.634G         | 22   | 5.373G         | 23   | 5.321G         | 24   | 5.422G         |
| 25                                                    | 5.474G         | 26   | 5.255G         | 27   | 5.529G         | 28   | 5.701G         |
| 29                                                    | 5.587G         | 30   | 5.718G         | 31   | 5.355G         | 32   | 5.553G         |
| 33                                                    | 5.583G         | 34   | 5.489G         | 35   | 5.554G         | 36   | 5.312G         |
| 37                                                    | 5.301G         | 38   | 5.661G         | 39   | 5.480G         | 40   | 5.254G         |
| 41                                                    | 5.671G         | 42   | 5.716G         | 43   | 5.413G         | 44   | 5.683G         |
| 45                                                    | 5.408G         | 46   | 5.724G         | 47   | 5.652G         | 48   | 5.346G         |
| 49                                                    | 5.713G         | 50   | 5.440G         | 51   | 5.433G         | 52   | 5.385G         |
| 53                                                    | 5.617G         | 54   | 5.699G         | 55   | 5.376G         | 56   | 5.663G         |
| 57                                                    | 5.548G         | 58   | 5.478G         | 59   | 5.418G         | 60   | 5.272G         |
| 61                                                    | 5.302G         | 62   | 5.498G         | 63   | 5.441G         | 64   | 5.675G         |
| 65                                                    | 5.468G         | 66   | 5.390G         | 67   | 5.505G         | 68   | 5.555G         |
| 69                                                    | 5.424G         | 70   | 5.666G         | 71   | 5.382G         | 72   | 5.464G         |
| 73                                                    | 5.655G         | 74   | 5.654G         | 75   | 5.419G         | 76   | 5.586G         |
| 77                                                    | 5.279G         | 78   | 5.337G         | 79   | 5.649G         | 80   | 5.298G         |
| 81                                                    | 5.710G         | 82   | 5.300G         | 83   | 5.605G         | 84   | 5.534G         |
| 85                                                    | 5.250G         | 86   | 5.487G         | 87   | 5.594G         | 88   | 5.545G         |
| 89                                                    | 5.426G         | 90   | 5.673G         | 91   | 5.320G         | 92   | 5.537G         |
| 93                                                    | 5.565G         | 94   | 5.488G         | 95   | 5.297G         | 96   | 5.589G         |
| 97                                                    | 5.383G         | 98   | 5.593G         | 99   | 5.267G         | 100  | 5.381G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_28 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.275G         | 2    | 5.522G         | 3    | 5.283G         | 4    | 5.505G         |
| 5                                                     | 5.444G         | 6    | 5.693G         | 7    | 5.662G         | 8    | 5.716G         |
| 9                                                     | 5.363G         | 10   | 5.593G         | 11   | 5.469G         | 12   | 5.571G         |
| 13                                                    | 5.397G         | 14   | 5.511G         | 15   | 5.721G         | 16   | 5.323G         |
| 17                                                    | 5.403G         | 18   | 5.685G         | 19   | 5.574G         | 20   | 5.521G         |
| 21                                                    | 5.669G         | 22   | 5.433G         | 23   | 5.405G         | 24   | 5.640G         |
| 25                                                    | 5.576G         | 26   | 5.361G         | 27   | 5.452G         | 28   | 5.594G         |
| 29                                                    | 5.553G         | 30   | 5.357G         | 31   | 5.606G         | 32   | 5.551G         |
| 33                                                    | 5.708G         | 34   | 5.256G         | 35   | 5.290G         | 36   | 5.410G         |
| 37                                                    | 5.257G         | 38   | 5.526G         | 39   | 5.501G         | 40   | 5.438G         |
| 41                                                    | 5.647G         | 42   | 5.720G         | 43   | 5.466G         | 44   | 5.494G         |
| 45                                                    | 5.278G         | 46   | 5.695G         | 47   | 5.306G         | 48   | 5.282G         |
| 49                                                    | 5.261G         | 50   | 5.424G         | 51   | 5.482G         | 52   | 5.723G         |
| 53                                                    | 5.395G         | 54   | 5.518G         | 55   | 5.472G         | 56   | 5.399G         |
| 57                                                    | 5.547G         | 58   | 5.702G         | 59   | 5.530G         | 60   | 5.462G         |
| 61                                                    | 5.620G         | 62   | 5.304G         | 63   | 5.354G         | 64   | 5.279G         |
| 65                                                    | 5.317G         | 66   | 5.621G         | 67   | 5.595G         | 68   | 5.483G         |
| 69                                                    | 5.252G         | 70   | 5.583G         | 71   | 5.380G         | 72   | 5.694G         |
| 73                                                    | 5.607G         | 74   | 5.394G         | 75   | 5.629G         | 76   | 5.596G         |
| 77                                                    | 5.613G         | 78   | 5.425G         | 79   | 5.414G         | 80   | 5.660G         |
| 81                                                    | 5.627G         | 82   | 5.459G         | 83   | 5.415G         | 84   | 5.592G         |
| 85                                                    | 5.578G         | 86   | 5.276G         | 87   | 5.604G         | 88   | 5.265G         |
| 89                                                    | 5.682G         | 90   | 5.614G         | 91   | 5.332G         | 92   | 5.461G         |
| 93                                                    | 5.681G         | 94   | 5.633G         | 95   | 5.417G         | 96   | 5.381G         |
| 97                                                    | 5.542G         | 98   | 5.305G         | 99   | 5.272G         | 100  | 5.296G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_29 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.344G         | 2    | 5.569G         | 3    | 5.451G         | 4    | 5.434G         |
| 5                                                     | 5.379G         | 6    | 5.367G         | 7    | 5.318G         | 8    | 5.458G         |
| 9                                                     | 5.583G         | 10   | 5.654G         | 11   | 5.463G         | 12   | 5.294G         |
| 13                                                    | 5.286G         | 14   | 5.419G         | 15   | 5.269G         | 16   | 5.505G         |
| 17                                                    | 5.380G         | 18   | 5.593G         | 19   | 5.600G         | 20   | 5.481G         |
| 21                                                    | 5.663G         | 22   | 5.257G         | 23   | 5.527G         | 24   | 5.587G         |
| 25                                                    | 5.297G         | 26   | 5.622G         | 27   | 5.440G         | 28   | 5.362G         |
| 29                                                    | 5.391G         | 30   | 5.558G         | 31   | 5.614G         | 32   | 5.302G         |
| 33                                                    | 5.591G         | 34   | 5.343G         | 35   | 5.700G         | 36   | 5.258G         |
| 37                                                    | 5.420G         | 38   | 5.576G         | 39   | 5.595G         | 40   | 5.304G         |
| 41                                                    | 5.386G         | 42   | 5.539G         | 43   | 5.687G         | 44   | 5.599G         |
| 45                                                    | 5.396G         | 46   | 5.404G         | 47   | 5.636G         | 48   | 5.274G         |
| 49                                                    | 5.541G         | 50   | 5.454G         | 51   | 5.348G         | 52   | 5.677G         |
| 53                                                    | 5.282G         | 54   | 5.573G         | 55   | 5.621G         | 56   | 5.431G         |
| 57                                                    | 5.668G         | 58   | 5.328G         | 59   | 5.255G         | 60   | 5.333G         |
| 61                                                    | 5.368G         | 62   | 5.489G         | 63   | 5.271G         | 64   | 5.521G         |
| 65                                                    | 5.691G         | 66   | 5.313G         | 67   | 5.660G         | 68   | 5.493G         |
| 69                                                    | 5.260G         | 70   | 5.536G         | 71   | 5.506G         | 72   | 5.552G         |
| 73                                                    | 5.695G         | 74   | 5.615G         | 75   | 5.525G         | 76   | 5.717G         |
| 77                                                    | 5.433G         | 78   | 5.514G         | 79   | 5.608G         | 80   | 5.559G         |
| 81                                                    | 5.472G         | 82   | 5.466G         | 83   | 5.457G         | 84   | 5.342G         |
| 85                                                    | 5.547G         | 86   | 5.336G         | 87   | 5.395G         | 88   | 5.509G         |
| 89                                                    | 5.388G         | 90   | 5.612G         | 91   | 5.401G         | 92   | 5.291G         |
| 93                                                    | 5.364G         | 94   | 5.526G         | 95   | 5.516G         | 96   | 5.642G         |
| 97                                                    | 5.346G         | 98   | 5.649G         | 99   | 5.376G         | 100  | 5.531G         |



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| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_30 |                |      |                |      |                |      |                |
|-------------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                                  | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                     | 5.359G         | 2    | 5.636G         | 3    | 5.406G         | 4    | 5.673G         |
| 5                                                     | 5.629G         | 6    | 5.337G         | 7    | 5.302G         | 8    | 5.684G         |
| 9                                                     | 5.670G         | 10   | 5.595G         | 11   | 5.564G         | 12   | 5.465G         |
| 13                                                    | 5.259G         | 14   | 5.531G         | 15   | 5.379G         | 16   | 5.450G         |
| 17                                                    | 5.279G         | 18   | 5.387G         | 19   | 5.642G         | 20   | 5.563G         |
| 21                                                    | 5.442G         | 22   | 5.652G         | 23   | 5.538G         | 24   | 5.376G         |
| 25                                                    | 5.422G         | 26   | 5.719G         | 27   | 5.498G         | 28   | 5.265G         |
| 29                                                    | 5.319G         | 30   | 5.324G         | 31   | 5.340G         | 32   | 5.304G         |
| 33                                                    | 5.609G         | 34   | 5.512G         | 35   | 5.698G         | 36   | 5.420G         |
| 37                                                    | 5.475G         | 38   | 5.395G         | 39   | 5.547G         | 40   | 5.584G         |
| 41                                                    | 5.640G         | 42   | 5.620G         | 43   | 5.664G         | 44   | 5.333G         |
| 45                                                    | 5.708G         | 46   | 5.487G         | 47   | 5.502G         | 48   | 5.655G         |
| 49                                                    | 5.481G         | 50   | 5.289G         | 51   | 5.385G         | 52   | 5.431G         |
| 53                                                    | 5.455G         | 54   | 5.490G         | 55   | 5.539G         | 56   | 5.666G         |
| 57                                                    | 5.417G         | 58   | 5.291G         | 59   | 5.364G         | 60   | 5.556G         |
| 61                                                    | 5.522G         | 62   | 5.679G         | 63   | 5.365G         | 64   | 5.656G         |
| 65                                                    | 5.402G         | 66   | 5.483G         | 67   | 5.250G         | 68   | 5.381G         |
| 69                                                    | 5.536G         | 70   | 5.649G         | 71   | 5.516G         | 72   | 5.561G         |
| 73                                                    | 5.418G         | 74   | 5.680G         | 75   | 5.390G         | 76   | 5.622G         |
| 77                                                    | 5.596G         | 78   | 5.554G         | 79   | 5.258G         | 80   | 5.565G         |
| 81                                                    | 5.662G         | 82   | 5.521G         | 83   | 5.489G         | 84   | 5.310G         |
| 85                                                    | 5.469G         | 86   | 5.492G         | 87   | 5.298G         | 88   | 5.299G         |
| 89                                                    | 5.702G         | 90   | 5.647G         | 91   | 5.631G         | 92   | 5.508G         |
| 93                                                    | 5.704G         | 94   | 5.583G         | 95   | 5.458G         | 96   | 5.428G         |
| 97                                                    | 5.352G         | 98   | 5.389G         | 99   | 5.586G         | 100  | 5.675G         |





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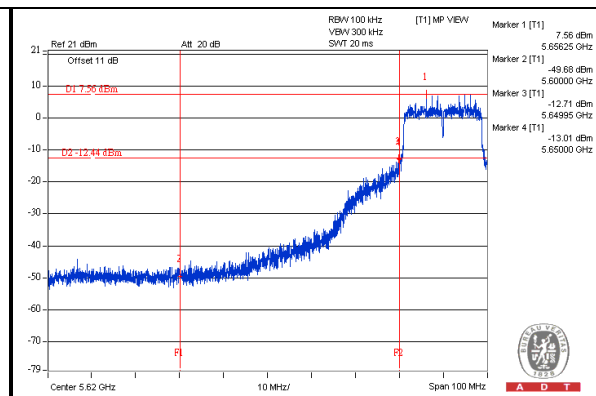
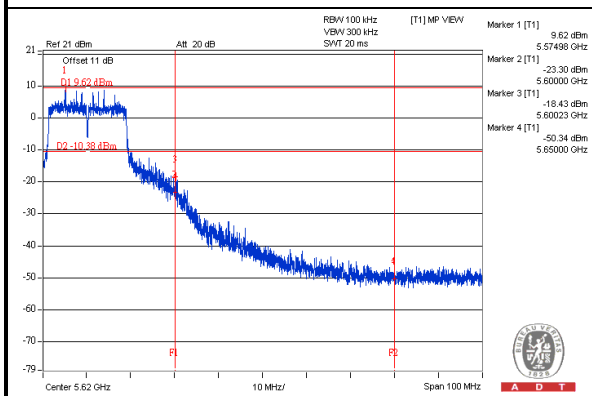
## 10 APPENDIX-C

### MASTER MODE

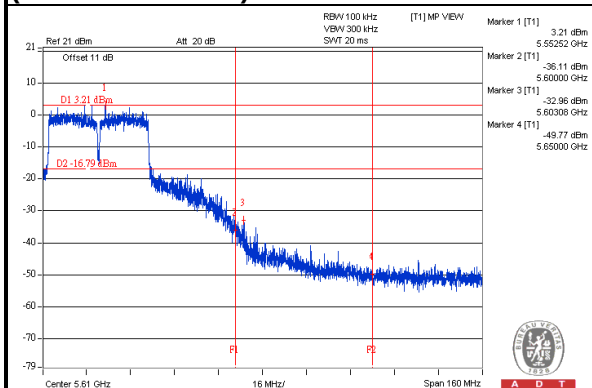
### NOTCH BAND IN 5600-5650MHZ

Verify that the 5600 – 5650 MHz band is notched.

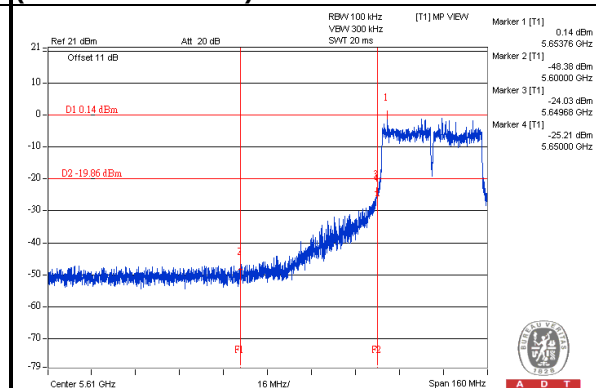
Test results demonstrating last channel shall not exceed the band edge on 5600–5650MHz.



### 802.11n (20MHz) OFDM MODULATION (CH 116: 5580MHz)



### 802.11n (20MHz) OFDM MODULATION (CH 132: 5660MHz)

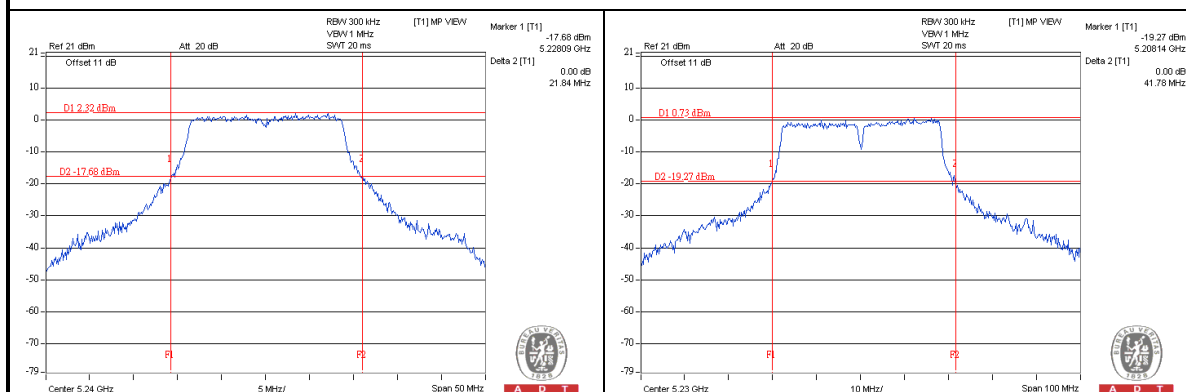


### 802.11n (40MHz) OFDM MODULATION (CH 110: 5550MHz)

### 802.11n (40MHz) OFDM MODULATION (CH 134: 5670MHz)

# BAND EDGE AT NEARBY DFS BAND

1) Test results demonstrating last channel (down 20dB BW) shall not exceed the band edge on 5150~5250MHz.



EUT (Master) links with client on 11n HT20 mode

EUT (Master) links with client on 11n HT40 mode

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