

## DFS Test Report

**Report No.:** RF171002C22-1

**FCC ID:** KA2WL3610APA1

**Test Model:** DWL-3610AP

**Received Date:** Oct. 02, 2017

**Test Date:** Nov. 27 ~ Nov. 30, 2017

**Issued Date:** Dec. 29, 2017

**Applicant:** D-Link Corporation

**Address:** 17595 Mt. Herrmann, Fountain Valley, California, United States, 92708

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

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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### Release Control Record

| Issue No.     | Description       | Date Issued   |
|---------------|-------------------|---------------|
| RF171002C22-1 | Original release. | Dec. 29, 2017 |

## 1 Certificate of Conformity

**Product:** Unified AC Selectable Dual-band PoE Access Point

**Brand:** D-Link

**Test Model:** DWL-3610AP

**Sample Status:** Identical Prototype

**Applicant:** D-Link Corporation

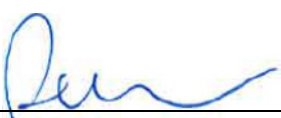
**Test Date:** Nov. 27 ~ Nov. 30, 2017

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

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

**Prepared by :**



**Date:**

Dec. 29, 2017

Pettie Chen / Senior Specialist

**Approved by :**



**Date:**

Dec. 29, 2017

Ken Liu / Senior Manager

## 2 EUT Information

### 2.1 Operating Frequency Bands and Mode of EUT

Table 1: Operating Frequency Bands and Mode of EUT

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

### 2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

| No. | Product                                          | Model No.  | Software/Firmware Version    |
|-----|--------------------------------------------------|------------|------------------------------|
| 1   | Unified AC Selectable Dual-band PoE Access Point | DWL-3610AP | Version 9.10.178.40_e5.0.9.1 |

### 2.3 Description of Available Antennas to the EUT

Table 3: Antenna List

| ANT No. | Antenna Type | Operation Frequency Range (MHz) | Gain (dBi) |
|---------|--------------|---------------------------------|------------|
| 1       | PIFA         | 5250-5350                       | 3.0        |
| 1       | PIFA         | 5470-5725                       | 3.0        |
| 2       | PIFA         | 5250-5350                       | 3.0        |
| 2       | PIFA         | 5470-5725                       | 3.0        |

Note:

1. 5250-5350MHz: Directional gain =  $3+10\log(2) = 6.01\text{dBi}$

2. 5470-5725MHz: Directional gain =  $3+10\log(2) = 6.01\text{dBi}$

## 2.4 EUT Maximum Conducted Power

Table 4: The Measured Conducted Output Power

CDD Mode

### 802.11a

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 23.76             | 237.684          |
| 5470~5725            | 23.69             | 233.884          |

### 802.11n HT20

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 23.66             | 232.274          |
| 5470~5725            | 23.75             | 237.137          |

### 802.11n HT40

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 19.17             | 82.604           |
| 5470~5725            | 19.11             | 81.470           |

### 802.11ac VHT80

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 12.67             | 18.493           |
| 5470~5725            | 18.23             | 66.527           |

## Beamforming Mode

### 802.11n HT20

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 23.66             | 232.274          |
| 5470~5725            | 23.75             | 237.137          |

### 802.11n HT40

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 19.17             | 82.604           |
| 5470~5725            | 19.11             | 81.470           |

### 802.11ac VHT80

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 12.67             | 18.493           |
| 5470~5725            | 18.23             | 66.527           |

## 2.5 EUT Maximum E.I.R.P. Power

Table 5: The EIRP Output Power List

CDD Mode

### 802.11a

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 26.76             | 474.242          |
| 5470~5725            | 26.69             | 466.659          |

### 802.11n HT20

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 26.66             | 463.447          |
| 5470~5725            | 26.75             | 473.151          |

### 802.11n HT40

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 22.17             | 164.816          |
| 5470~5725            | 22.11             | 162.555          |

### 802.11ac VHT80

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 15.67             | 36.898           |
| 5470~5725            | 21.23             | 132.739          |

## Beamforming Mode

### 802.11n HT20

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 29.67             | 926.830          |
| 5470~5725            | 29.76             | 946.237          |

### 802.11n HT40

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 25.18             | 329.610          |
| 5470~5725            | 25.12             | 325.087          |

### 802.11ac VHT80

| Frequency Band (MHz) | MAX. Power        |                  |
|----------------------|-------------------|------------------|
|                      | Output Power(dBm) | Output Power(mW) |
| 5250~5350            | 18.68             | 73.790           |
| 5470~5725            | 24.24             | 265.461          |

## 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 946.237mW which more than 500mW, therefore it's require TPC function.

## 2.7 Statement of Manufacturer

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

### 3. U-NII DFS Rule Requirements

#### 3.1 Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

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

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

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

Table 7: Applicability of DFS Requirements during Normal Operation.

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

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

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

## 3.2 Test Limits And Radar Signal Parameters

### Detection Threshold Values

Table 8: DFS Detection Thresholds For Master Devices And Client Devices With Radar Detection

| Maximum Transmit Power                                                          | Value<br>(See Notes 1, 2, and 3) |
|---------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                       | -64 dBm                          |
| EIRP < 200 milliwatt and<br>power spectral density < 10 dBm/MHz                 | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the<br>power spectral density requirement | -64 dBm                          |

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

Table 9: DFS Response Requirement Values

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

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.  
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.  
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

### Parameters of DFS Test Signals

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

Table 10: Short Pulse Radar Test Waveforms

| Radar Type                                                                                                                           | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                    | Number of Pulses                                                                                                 | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 0                                                                                                                                    | 1                  | 1428                                                                                                                                                          | 18                                                                                                               | See Note 1                                 | See Note 1               |
| 1                                                                                                                                    | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                     | Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$ | 60%                                        | 30                       |
|                                                                                                                                      |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                                                                                                                  |                                            |                          |
| 2                                                                                                                                    | 1-5                | 150-230                                                                                                                                                       | 23-29                                                                                                            | 60%                                        | 30                       |
| 3                                                                                                                                    | 6-10               | 200-500                                                                                                                                                       | 16-18                                                                                                            | 60%                                        | 30                       |
| 4                                                                                                                                    | 11-20              | 200-500                                                                                                                                                       | 12-16                                                                                                            | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4)                                                                                                          |                    |                                                                                                                                                               |                                                                                                                  | 80%                                        | 120                      |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. |                    |                                                                                                                                                               |                                                                                                                  |                                            |                          |

**Table 11: Long Pulse Radar Test Waveform**

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

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

- a) the Channel center frequency
- b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth
- c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

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

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

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

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

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

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

**Table 12: Frequency Hopping Radar Test Waveform**

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

#### 4. Test & Support Equipment List

##### 4.1 Test Instruments

Table 13: Test Instruments List

| Description       | Model No.                                      | Brand       | Date Of Calibration | Due Date Of Calibration |
|-------------------|------------------------------------------------|-------------|---------------------|-------------------------|
| Spectrum analyzer | ESR                                            | R&S         | 2017/02/20          | 2018/02/19              |
| Signal generator  | 8645A                                          | Agilent     | 2017/08/11          | 2018/08/10              |
| Horn antenna      | BBHA 9120 D                                    | Schwarzbeck | 2016/12/28          | 2017/12/27              |
| RF coaxial cable  | CA3501-3501-G.90(3m)<br>& CA3501-3501-F.90(2m) | INFINET     | 2017/08/21          | 2018/08/20              |

##### 4.2 Description of Support Units

Table 14: Support Unit Information.

| No. | Product          | Brand   | Model No. | FCC ID      |
|-----|------------------|---------|-----------|-------------|
| 1   | WiFi USB Adapter | NETGEAR | A6210     | PY313400249 |

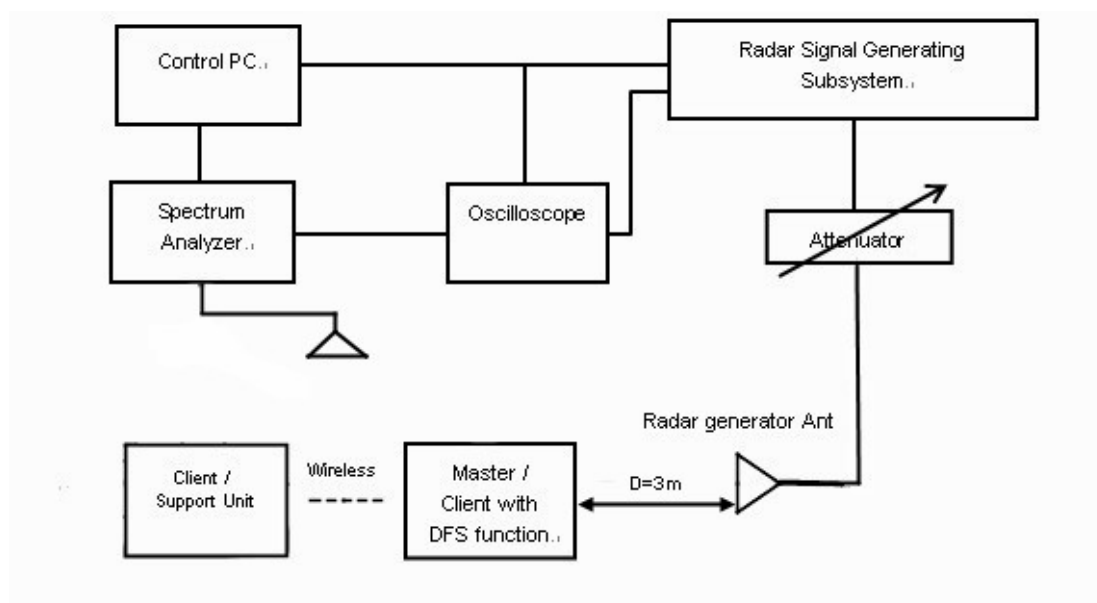
**NOTE:** This device was functioned as a ☐ Master ☒ Slave device during the DFS test.

## 5. Test Procedure

### 5.1 DFS Measurement System

A complete 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).

#### Radiated Setup Configuration of DFS Measurement System



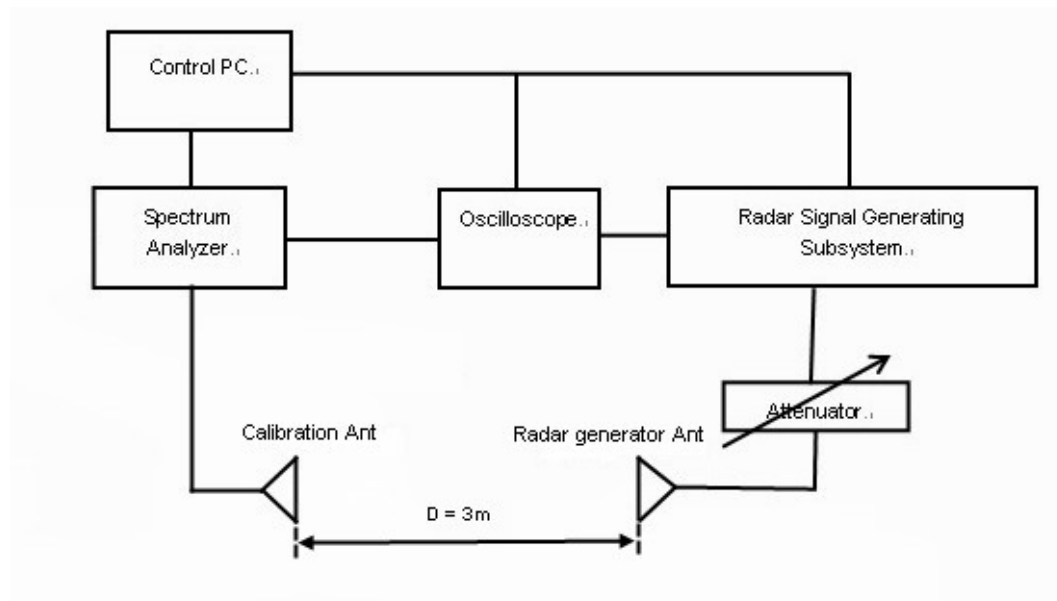
System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

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

## 5.2 Calibration of DFS Detection Threshold Level

The measured channel is 5500MHz, 5510MHz and 5530MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The calibrated conducted detection threshold level is set to -64dBm. The tested level is lower than required level hence it provides margin to the limit.

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

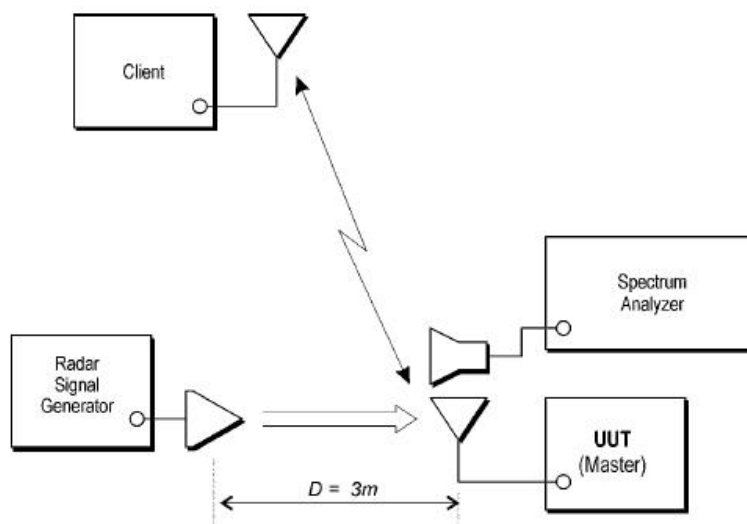


## 5.3 Deviation from Test Standard

No deviation.

## 5.4 Radiated Test Setup Configuration

### 5.4.1 Master Mode



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

## 6. Test Results

### 6.1 Summary of Test Results

| Clause | Test Parameter                    | Remarks    | Pass/Fail |
|--------|-----------------------------------|------------|-----------|
| 15.407 | DFS Detection Threshold           | Applicable | Pass      |
| 15.407 | U-NII Detection Bandwidth         | 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      |

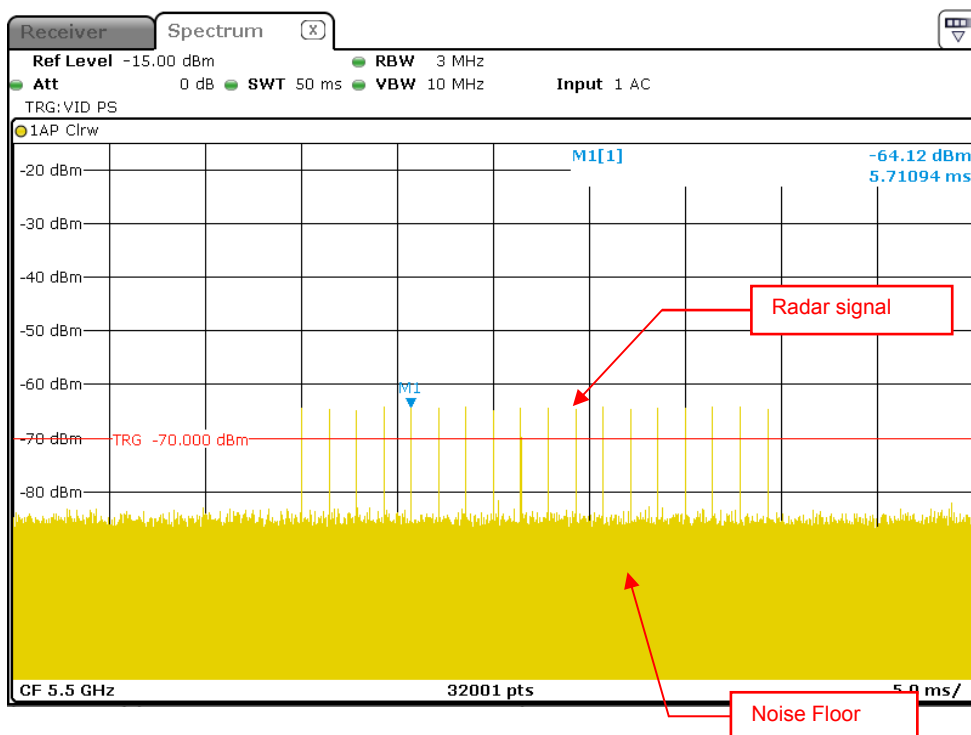
## 6.2 Test Results

### 6.2.1 Test Mode

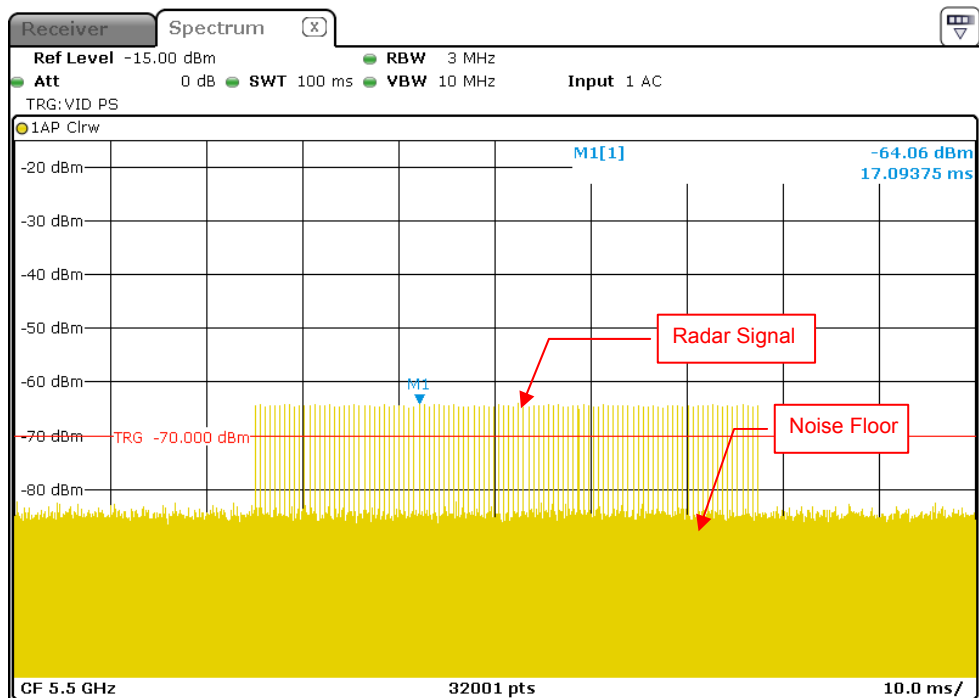
Master with injection at the Master. (Radar Test Waveforms are injected into the Master.)

### DFS Detection Threshold

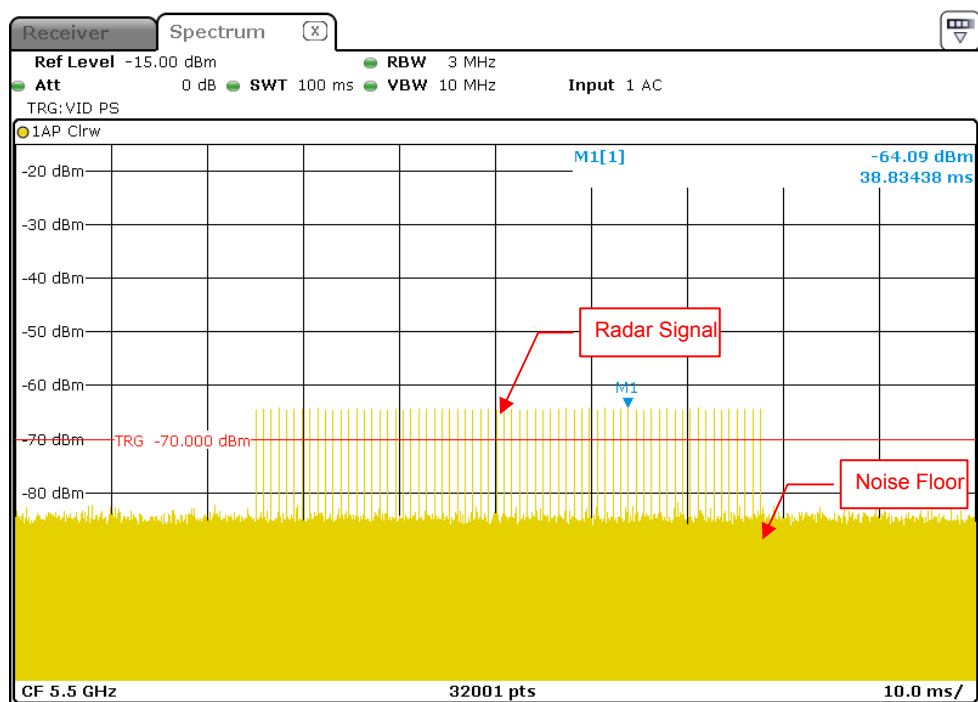
For detection threshold level of -64dBm, the required Radar Signal at antenna port was set to -64dBm. The tested level is lower than required level for 1dB, hence it provides margin to the limit.



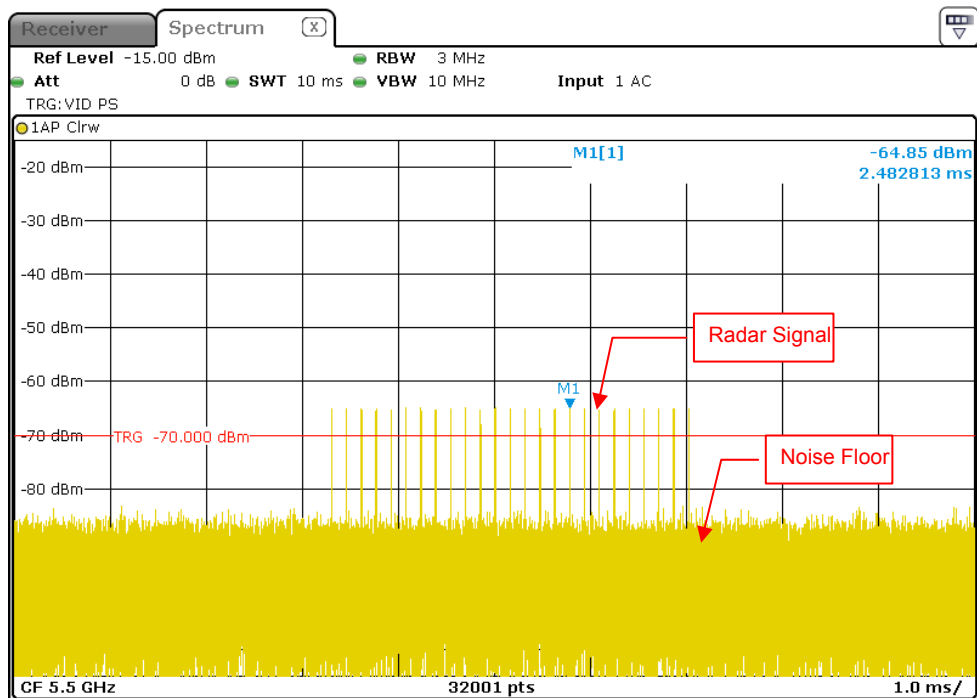
Radar Signal 0



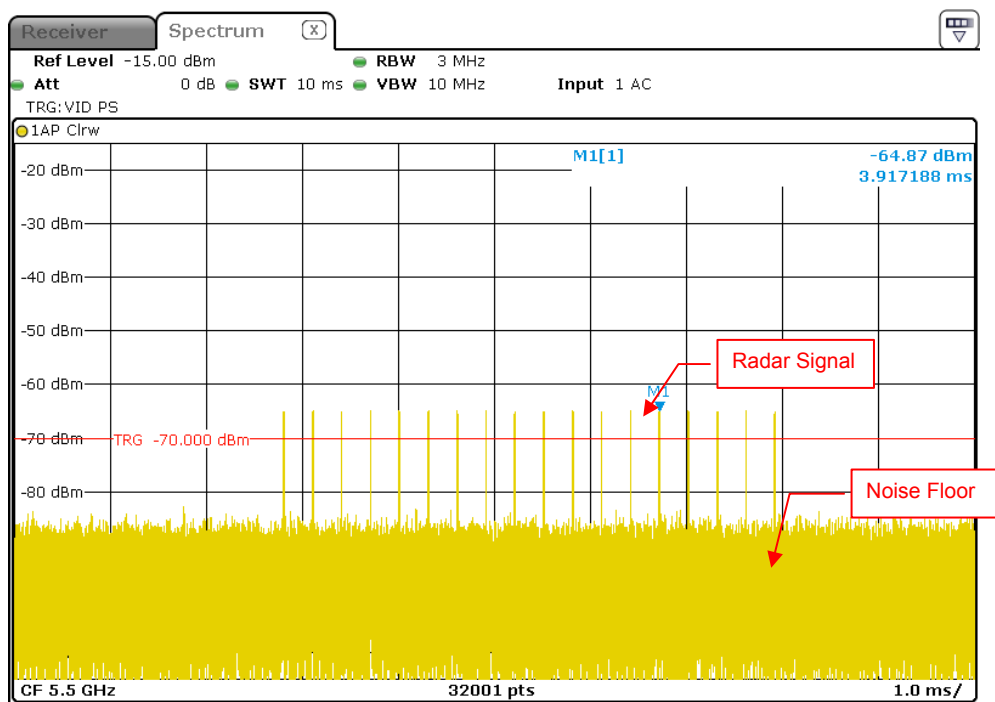
Radar Signal 1 (Test A)



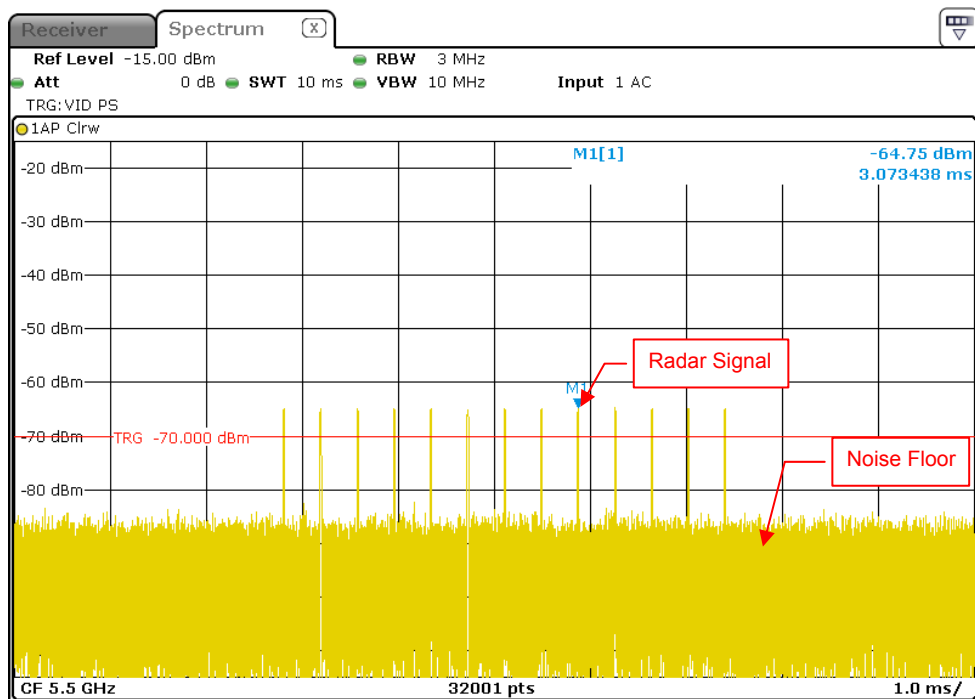
Radar Signal 1 (Test B)



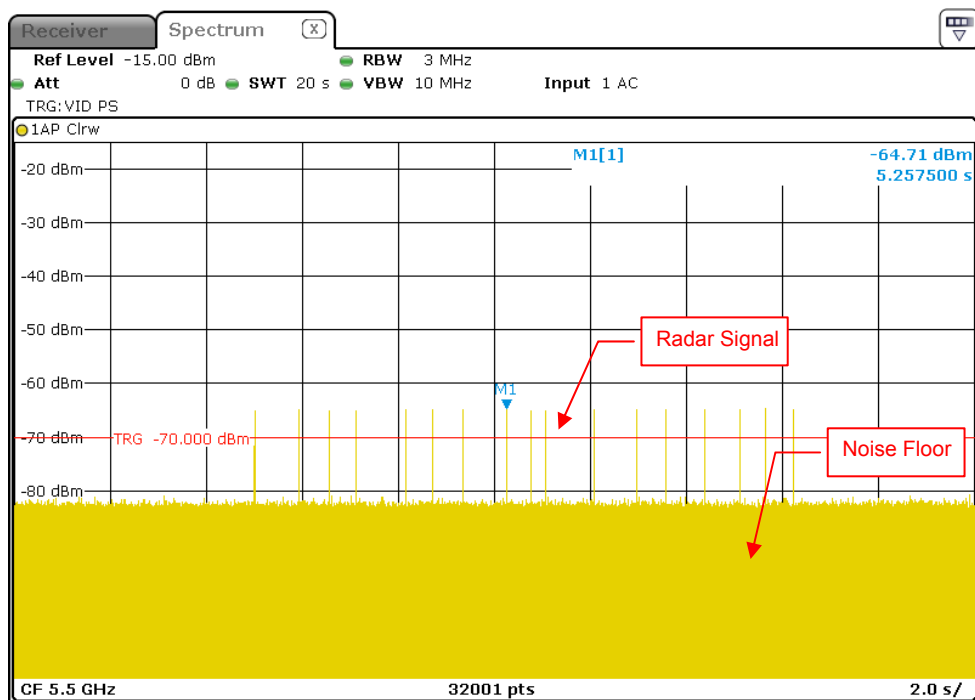
Radar Signal 2



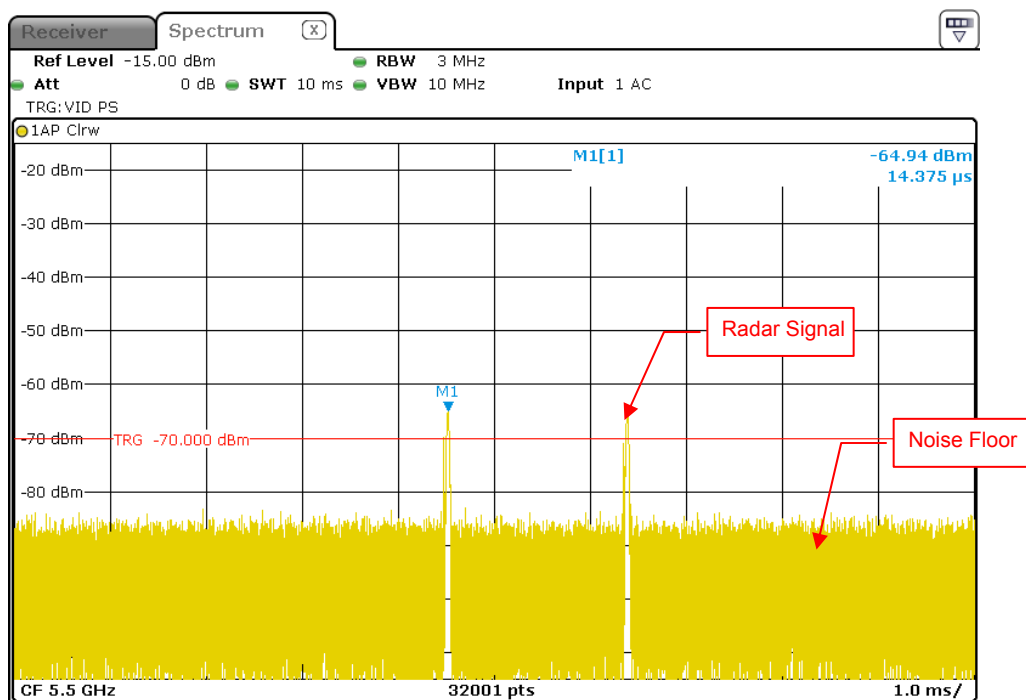
Radar Signal 3



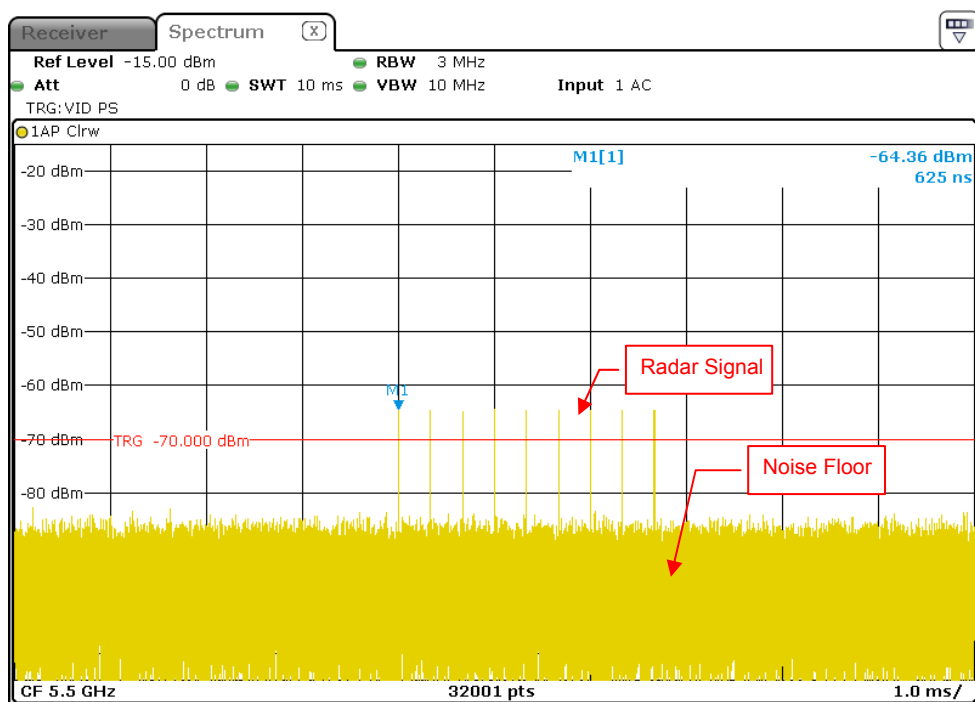
Radar Signal 4



Radar Signal 5



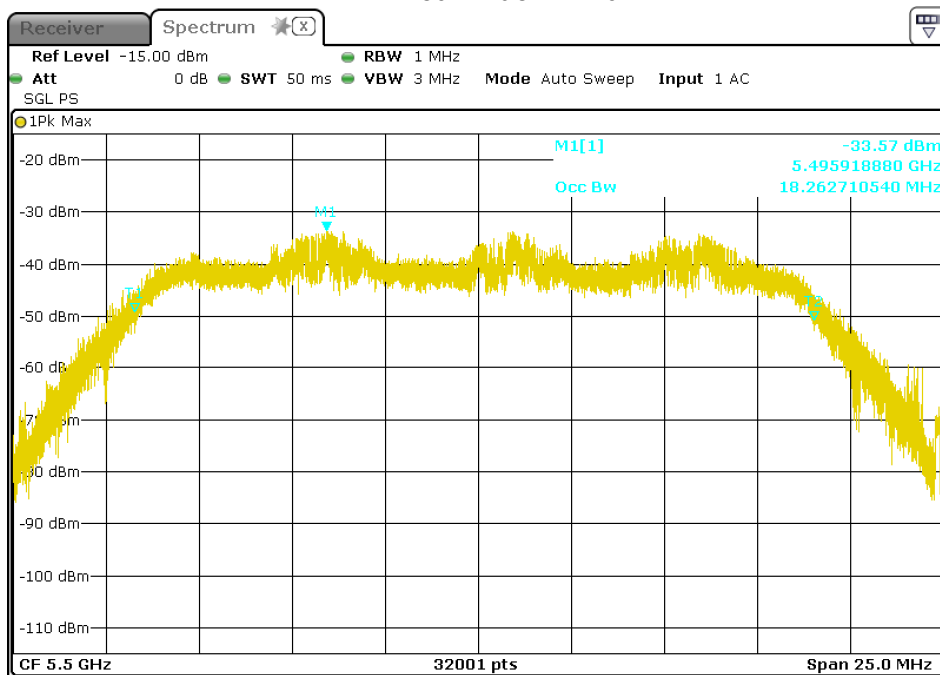
Single Burst of Radar Signal 5



Radar Signal 6

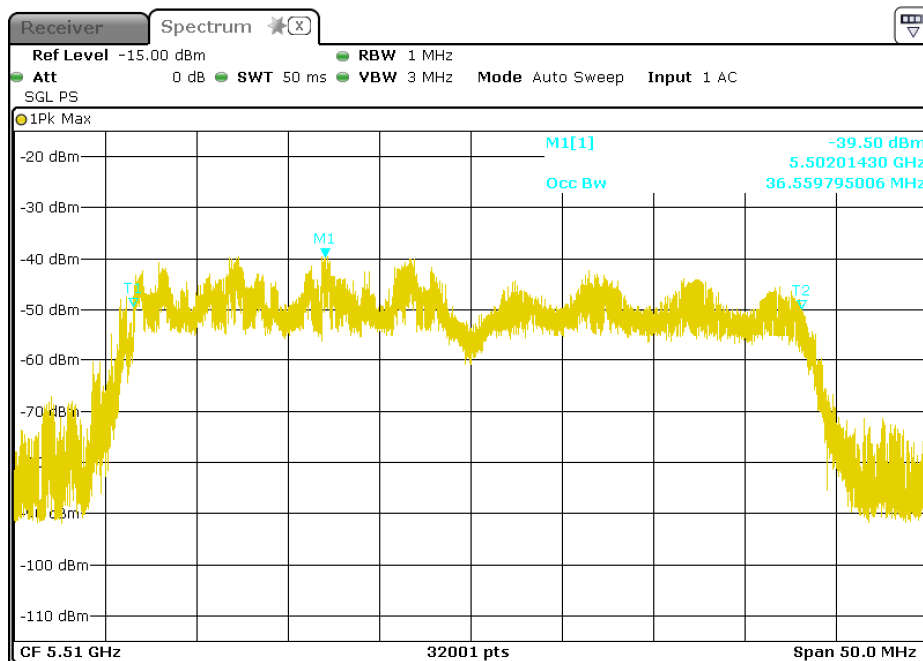
## 6.2.2 U-NII Detection Bandwidth

### IEEE 802.11ac VHT20



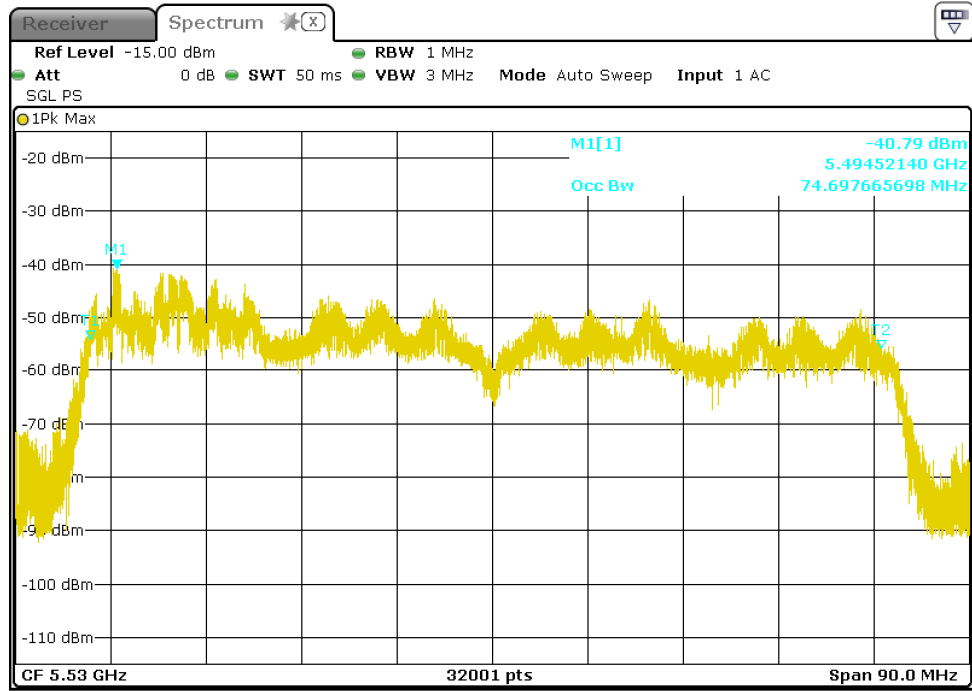
U-NII 99% Channel bandwidth

### IEEE 802.11ac VHT40



U-NII 99% Channel bandwidth

# IEEE 802.11ac VHT80



U-NII 99% Channel bandwidth

# Detection Bandwidth Test - IEEE 802.11ac VHT20

Radar Type 0

EUT Frequency: 5500MHz

EUT 99% Power bandwidth: 18.26MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 18.26MHz

Detection bandwidth (5510(FH) – 5489(FL)) : 21MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |   |   |   |   |   |   |   |   |    | Detection<br>Rate (%) |
|-----------------------------|--------------------------|---|---|---|---|---|---|---|---|----|-----------------------|
|                             | 1                        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                       |
| 5488                        | N                        | N | N | N | N | N | N | N | N | N  | 0                     |
| 5489(FL)                    | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5490                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5491                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5492                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5493                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5494                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5495                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5496                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5497                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5498                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5499                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5500                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5501                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5502                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5503                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5504                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5505                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5506                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5507                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5508                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5509                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5510(FH)                    | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5511                        | N                        | Y | Y | Y | N | Y | N | N | N | N  | 40                    |
| 5512                        | N                        | N | N | N | N | N | N | N | N | N  | 0                     |

# Detection Bandwidth Test - IEEE 802.11ac VHT40

Radar Type 0

EUT Frequency: 5510MHz

EUT 99% Power bandwidth: 36.55MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 36.55MHz

Detection bandwidth (5530(FH) – 5489(FL)) : 41MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |   |   |   |   |   |   |   |   |    | Detection<br>Rate (%) |
|-----------------------------|--------------------------|---|---|---|---|---|---|---|---|----|-----------------------|
|                             | 1                        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                       |
| 5488                        | N                        | N | N | N | N | N | N | N | N | N  | 0                     |
| 5489(FL)                    | Y                        | Y | Y | Y | Y | Y | Y | Y | N | Y  | 90                    |
| 5490                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5491                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5492                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5493                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5494                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5495                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5496                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5497                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5498                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5499                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5500                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5501                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5502                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5503                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5504                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5505                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5506                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5507                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5508                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5509                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5510                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5511                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5512                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5513                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5514                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5515                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5516                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5517                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5518                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5519                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5520                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5521                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5522                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5523                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5524                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5525                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5526                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5527                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5528                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5529                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5530(FH)                    | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5531                        | N                        | N | N | N | N | N | N | N | N | N  | 0                     |

# Detection Bandwidth Test - IEEE 802.11ac VHT80

Radar Type 0

EUT Frequency: 5530MHz

EUT 99% Power bandwidth: 74.69MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 74.69MHz

Detection bandwidth (5570(FH) – 5490(FL)) : 80MHz

Test Result : PASS

| Radar<br>Frequency<br>(MHz) | Trial Number / Detection |   |   |   |   |   |   |   |   |    | Detection<br>Rate (%) |
|-----------------------------|--------------------------|---|---|---|---|---|---|---|---|----|-----------------------|
|                             | 1                        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                       |
| 5489                        | N                        | N | N | N | N | N | N | N | N | N  | 0                     |
| 5490(FL)                    | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5491                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5492                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5493                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5494                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5495                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5496                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5497                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5498                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5499                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5500                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5501                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5502                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5503                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5504                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5505                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5506                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5507                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5508                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5509                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5510                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5511                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5512                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5513                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5514                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5515                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5516                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5517                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5518                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5519                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5520                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5521                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5522                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5523                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5524                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5525                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5526                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5527                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5528                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5529                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5530                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5531                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |
| 5532                        | Y                        | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100                   |

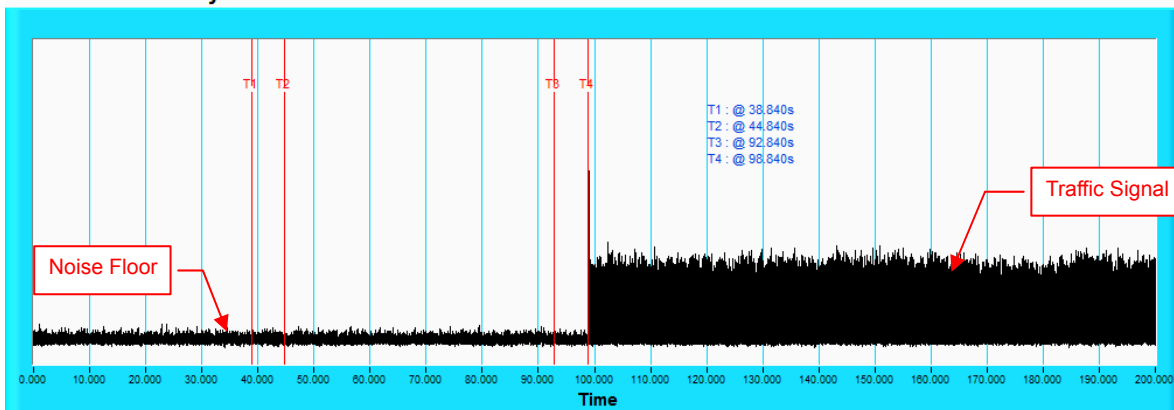
|          |   |   |   |   |   |   |   |   |   |   |     |
|----------|---|---|---|---|---|---|---|---|---|---|-----|
| 5533     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5534     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5535     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5536     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5537     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5538     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5539     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5540     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5541     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5542     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5543     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5544     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5545     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5546     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5547     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5548     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5549     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5550     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5551     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5552     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5553     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5554     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5555     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5556     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5557     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5558     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5559     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5560     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5561     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5562     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5563     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5564     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5565     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5566     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5567     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5568     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5569     | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5570(FH) | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5571     | N | N | N | N | N | N | N | N | N | N | 0   |

### 6.2.3 Channel Availability Check Time

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

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

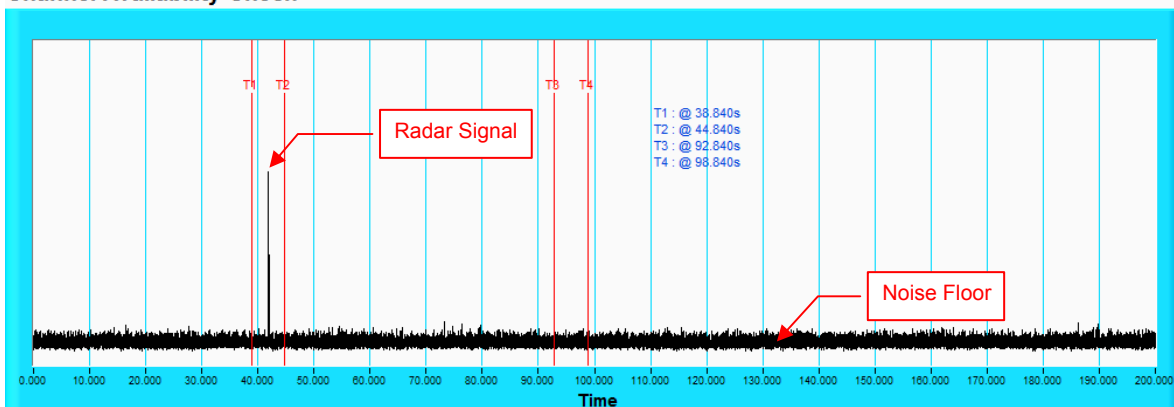
#### Initial Channel Availability Check Time 802.11ac (VHT80) 5530MHz Channel Availability Check



**NOTE:** T1 denotes the end of power-up time period is 38.84<sup>th</sup> second. T4 denotes the end of Channel Availability Check time is 98.84<sup>th</sup> second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.

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

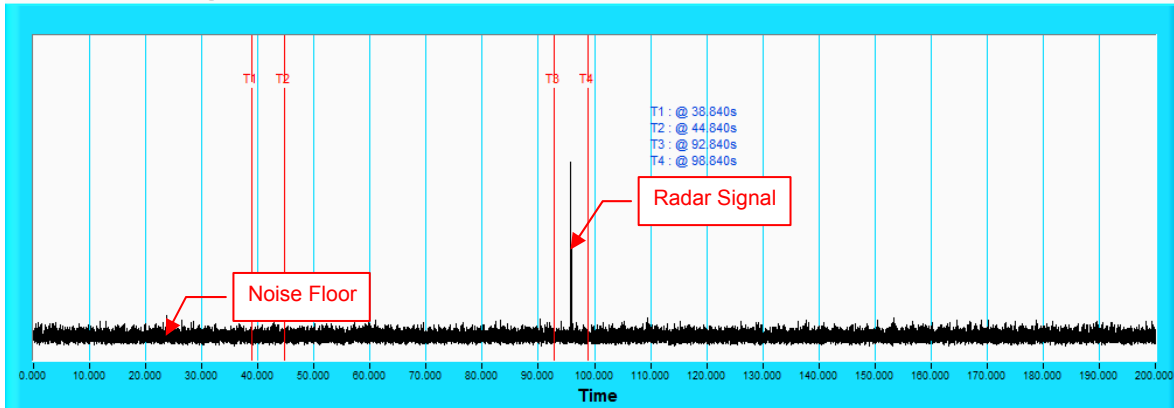
##### Channel Availability Check



**NOTE:** T1 denotes the end of power up time period is 38.84<sup>th</sup> second. T2 denotes 44.84<sup>th</sup> second, the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T4 denotes the 98.84<sup>th</sup> second.

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

### Channel Availability Check



**NOTE:** T1 denotes the end of power up time period is 38.84<sup>th</sup> second. T3 denotes 92.84<sup>th</sup> second and radar burst was commenced within 54<sup>th</sup> second to 60<sup>th</sup> second window starting from the end of power-up sequence. T4 denotes the 98.84<sup>th</sup> second.

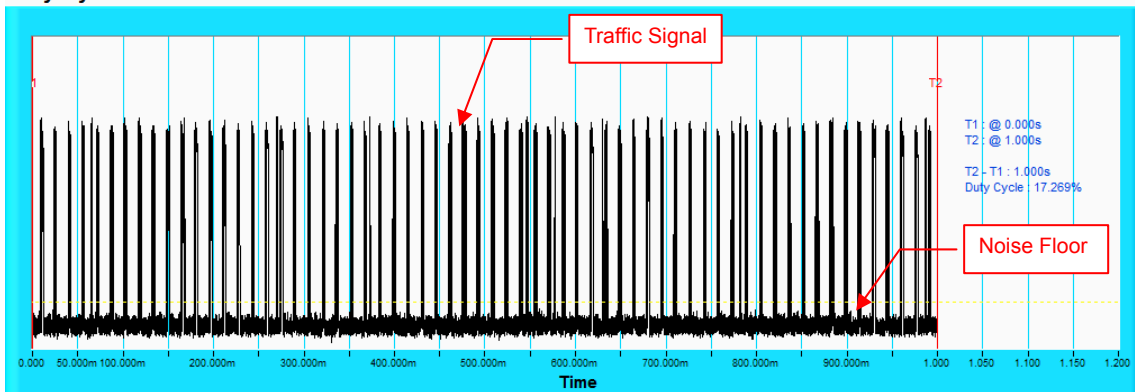
## 6.2.4 Channel Closing Transmission and Channel Move Time

### Wireless Traffic Loading

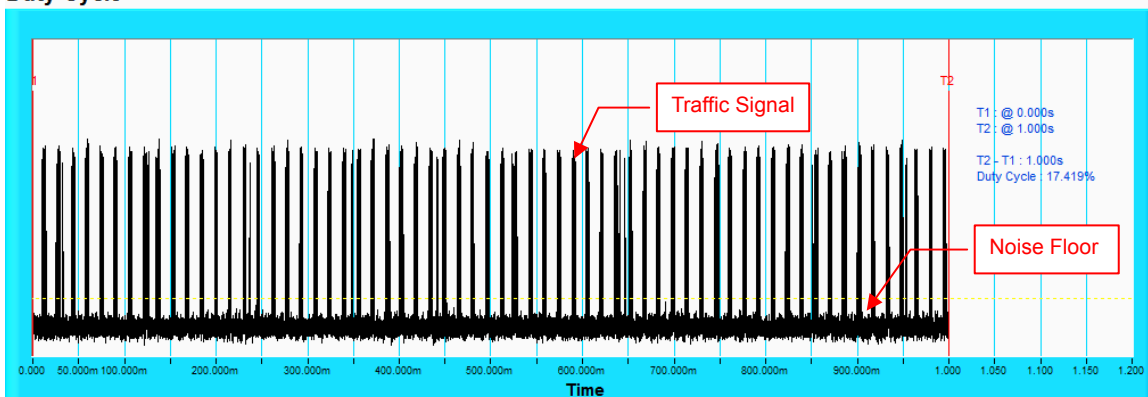
Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.

### Wireless Traffic Loading

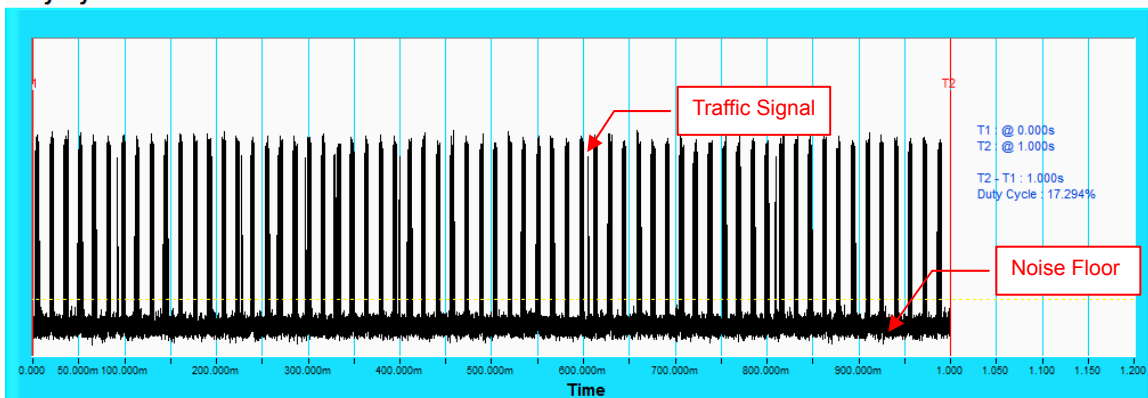
**IEEE 802.11ac VHT20 Duty Cycle: 17.269%**  
Duty Cycle



**IEEE 802.11ac VHT40 Duty Cycle: 17.419%**  
Duty Cycle



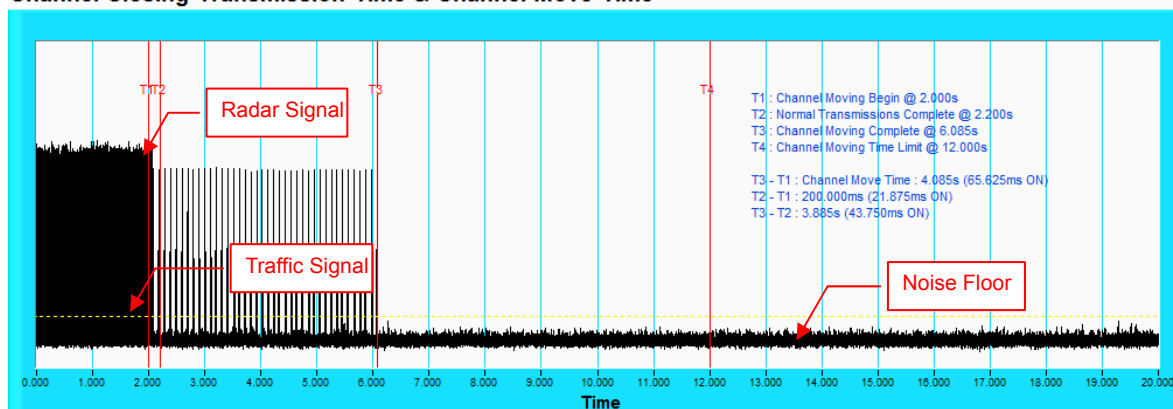
**IEEE 802.11ac VHT80 Duty Cycle: 17.294%**  
Duty Cycle



## Radar signal 0

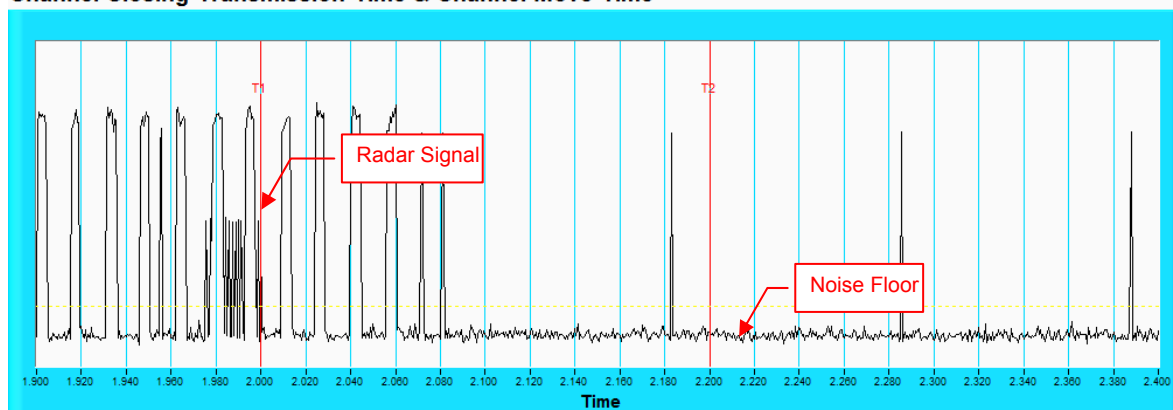
IEEE 802.11ac VHT80 5530MHz

### Channel Closing Transmission Time & Channel Move Time



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

### Channel Closing Transmission Time & Channel Move Time

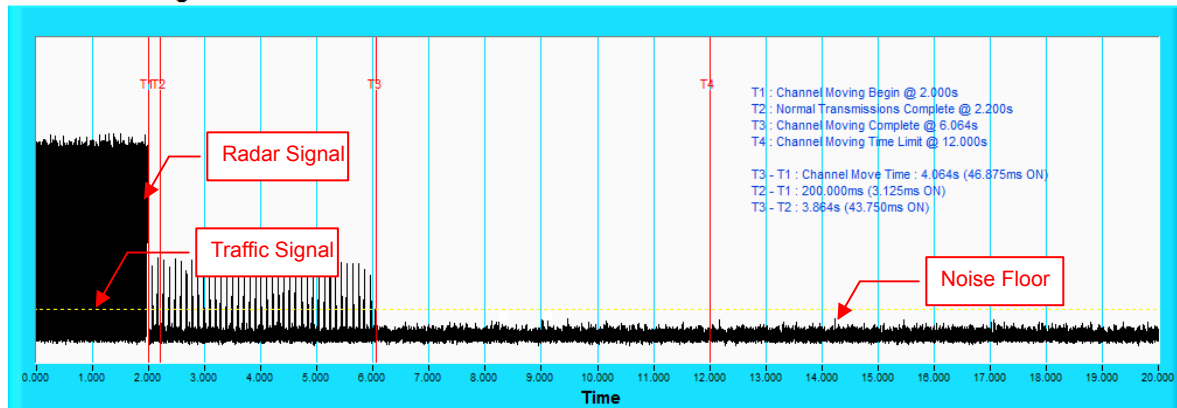


**NOTE:** Zoom-in of the first 500ms after radar signal applied.

## Radar signal 1

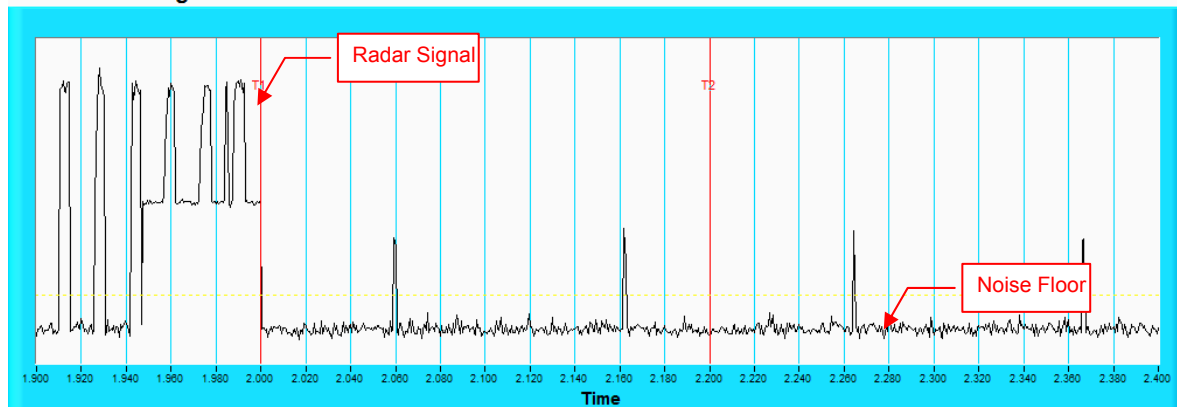
IEEE 802.11ac VHT80 5530MHz

### Channel Closing Transmission Time & Channel Move Time



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

### Channel Closing Transmission Time & Channel Move Time

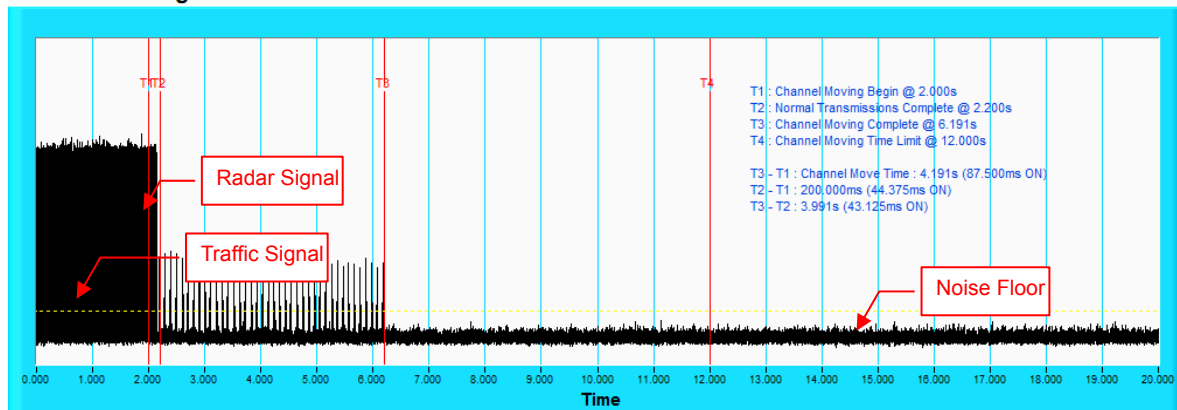


**NOTE:** Zoom-in of the first 500ms after radar signal applied.

## Radar signal 2

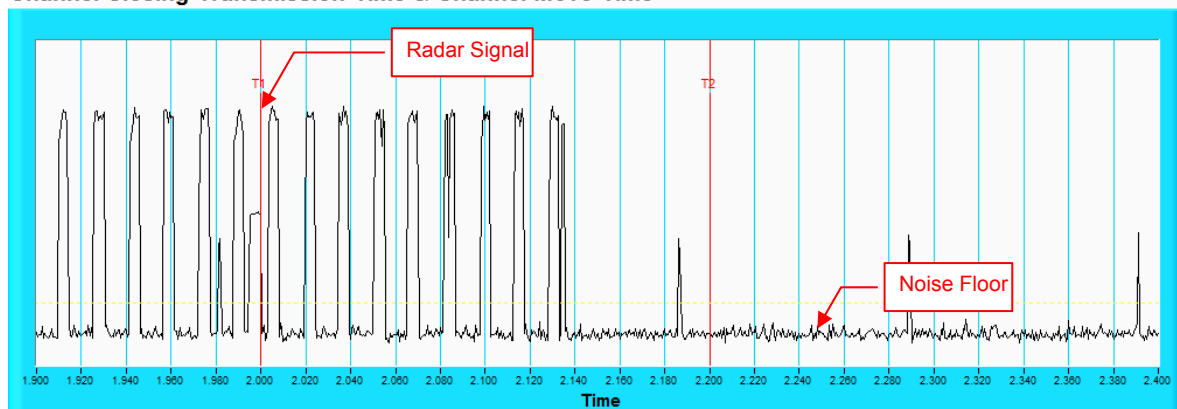
IEEE 802.11ac VHT80 5530MHz

### Channel Closing Transmission Time & Channel Move Time



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

### Channel Closing Transmission Time & Channel Move Time

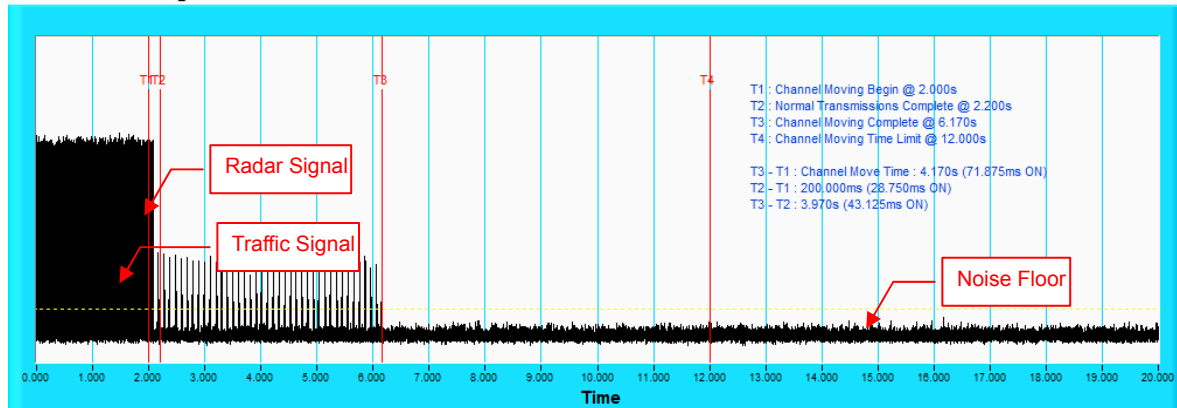


**NOTE:** Zoom-in of the first 500ms after radar signal applied.

### Radar signal 3

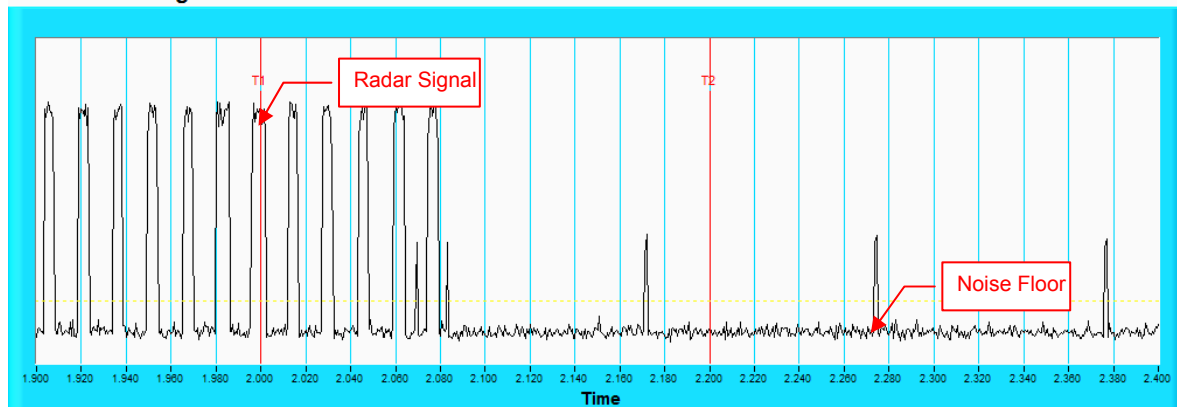
IEEE 802.11ac VHT80 5530MHz

#### Channel Closing Transmission Time & Channel Move Time



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

#### Channel Closing Transmission Time & Channel Move Time

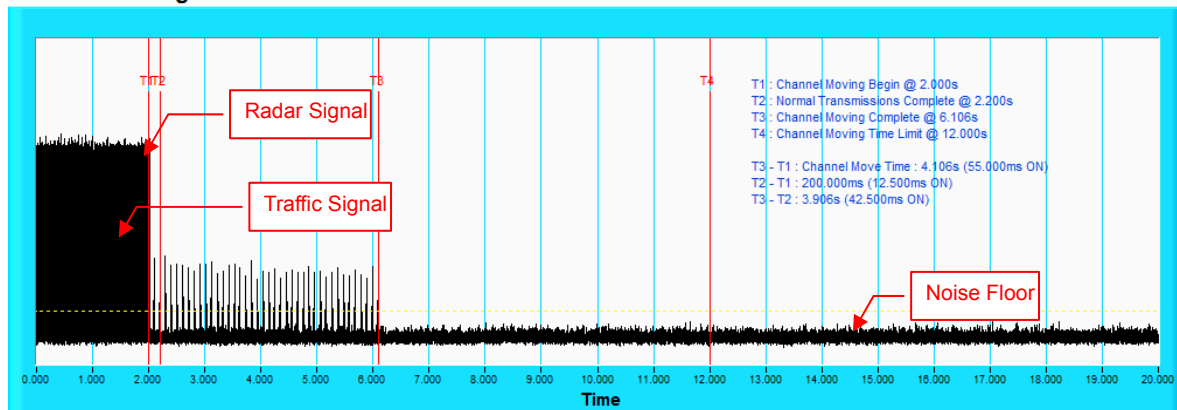


**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 4

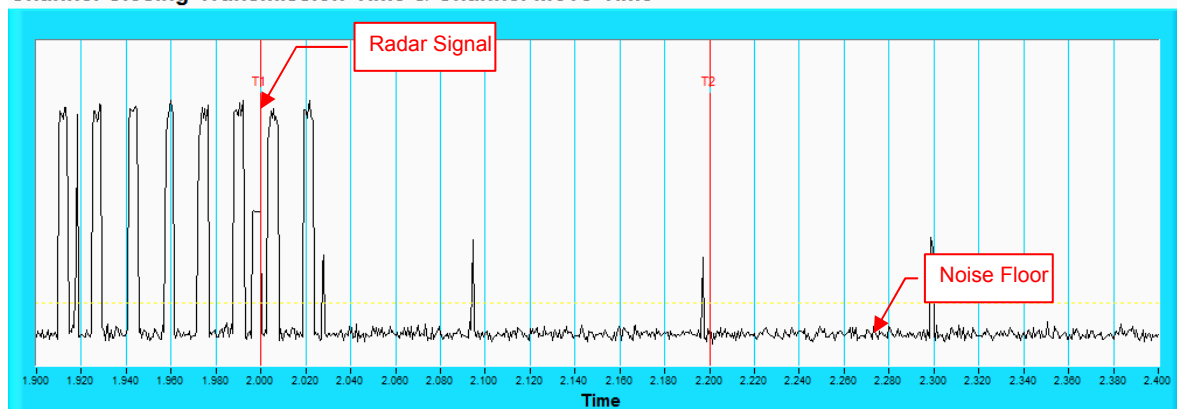
IEEE 802.11ac VHT80 5530MHz

### Channel Closing Transmission Time & Channel Move Time



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

### Channel Closing Transmission Time & Channel Move Time



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

# IEEE 802.11ac VHT20

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                    | Number of Pulses                                                                                  | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------|
| 1                           | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                     | Roundup $\left\{ \frac{1}{360} \cdot \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$ | 30                      | 100                                    |
|                             |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                                                                                                   |                         |                                        |
| 2                           | 1-5                | 150-230                                                                                                                                                       | 23-29                                                                                             | 30                      | 100                                    |
| 3                           | 6-10               | 200-500                                                                                                                                                       | 16-18                                                                                             | 30                      | 96.67                                  |
| 4                           | 11-20              | 200-500                                                                                                                                                       | 12-16                                                                                             | 30                      | 76.67                                  |
| Aggregate (Radar Types 1-4) |                    |                                                                                                                                                               |                                                                                                   | 120                     | 93.33                                  |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 86.7                                   |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 100                                    |

The Detailed Radar pattern and Statistical Performance showed in Annex A.

# IEEE 802.11ac VHT40

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                      | Number of Pulses                                                                                  | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------|
| 1                           | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                       | Roundup $\left\{ \frac{1}{360} \cdot \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$ | 30                      | 100                                    |
|                             |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A |                                                                                                   |                         |                                        |
| 2                           | 1-5                | 150-230                                                                                                                                                         | 23-29                                                                                             | 30                      | 96.67                                  |
| 3                           | 6-10               | 200-500                                                                                                                                                         | 16-18                                                                                             | 30                      | 93.33                                  |
| 4                           | 11-20              | 200-500                                                                                                                                                         | 12-16                                                                                             | 30                      | 96.67                                  |
| Aggregate (Radar Types 1-4) |                    |                                                                                                                                                                 |                                                                                                   | 120                     | 96.67                                  |

Table 2: Long Pulse Radar Test Waveform

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

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 100                                    |

The Detailed Radar pattern and Statistical Performance showed in Annex A.

# IEEE 802.11ac VHT80

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type                  | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                      | Number of Pulses                                                                                  | Number of Trials(Times) | Percentage of Successful Detection (%) |
|-----------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------|
| 1                           | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a                                                                       | Roundup $\left\{ \frac{1}{360} \cdot \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\}$ | 30                      | 100                                    |
|                             |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A |                                                                                                   |                         |                                        |
| 2                           | 1-5                | 150-230                                                                                                                                                         | 23-29                                                                                             | 30                      | 96.67                                  |
| 3                           | 6-10               | 200-500                                                                                                                                                         | 16-18                                                                                             | 30                      | 93.33                                  |
| 4                           | 11-20              | 200-500                                                                                                                                                         | 12-16                                                                                             | 30                      | 93.33                                  |
| Aggregate (Radar Types 1-4) |                    |                                                                                                                                                                 |                                                                                                   | 120                     | 95.83                                  |

Table 2: Long Pulse Radar Test Waveform

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|-------------------|------------|----------------------------|------------------|-------------------------|----------------------------------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 30                      | 86.7                                   |

Table 3: Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|-------------------------|----------------------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 30                      | 100                                    |

The Detailed Radar pattern and Statistical Performance showed in Annex A.

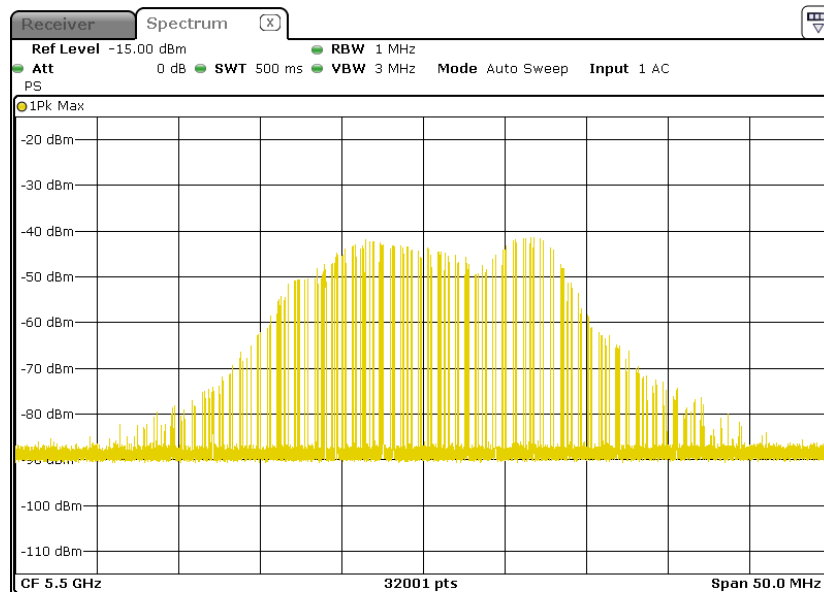
## 6.2.5 Non- Occupancy Period

### Associate test:

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

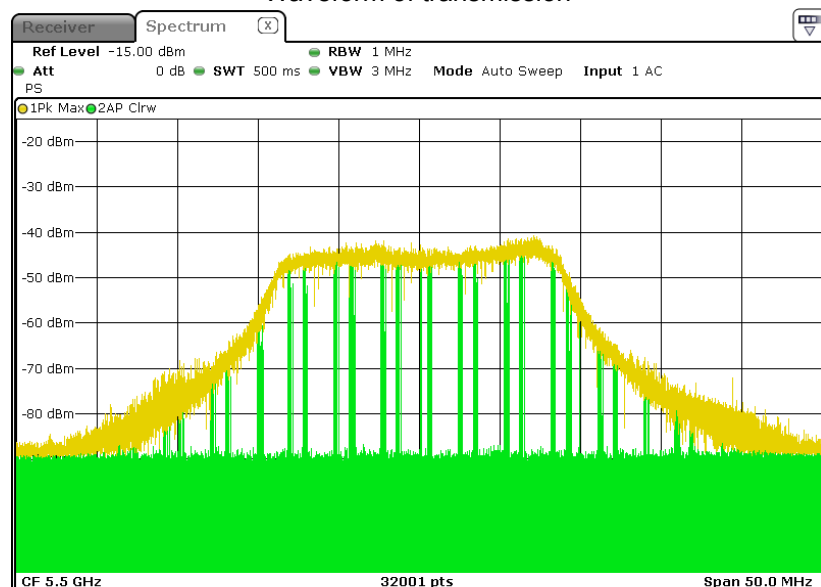
- 1) EUT (Client) links with master on 5500MHz.

Waveform of EUT links up with Master



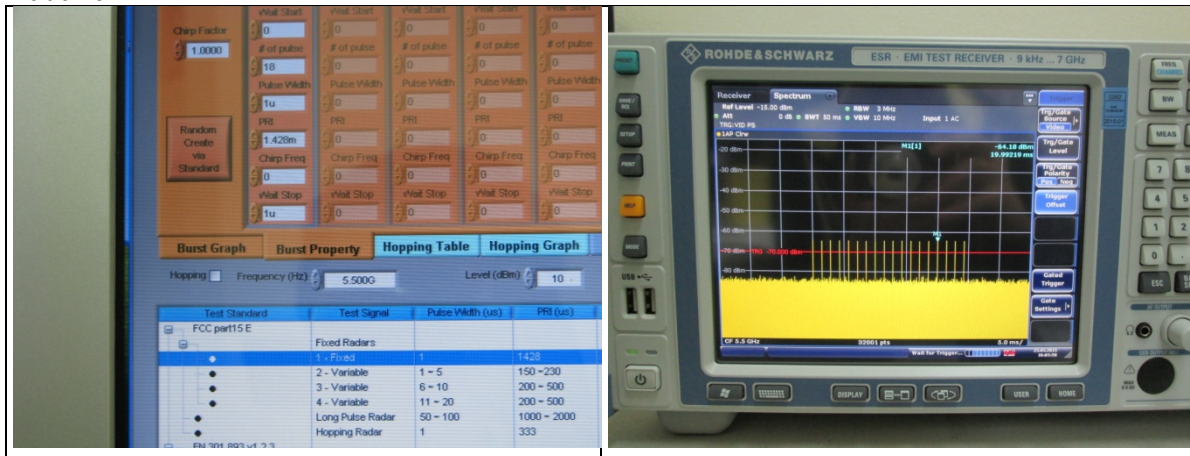
- 2) Client plays specified files via master.

Waveform of transmission

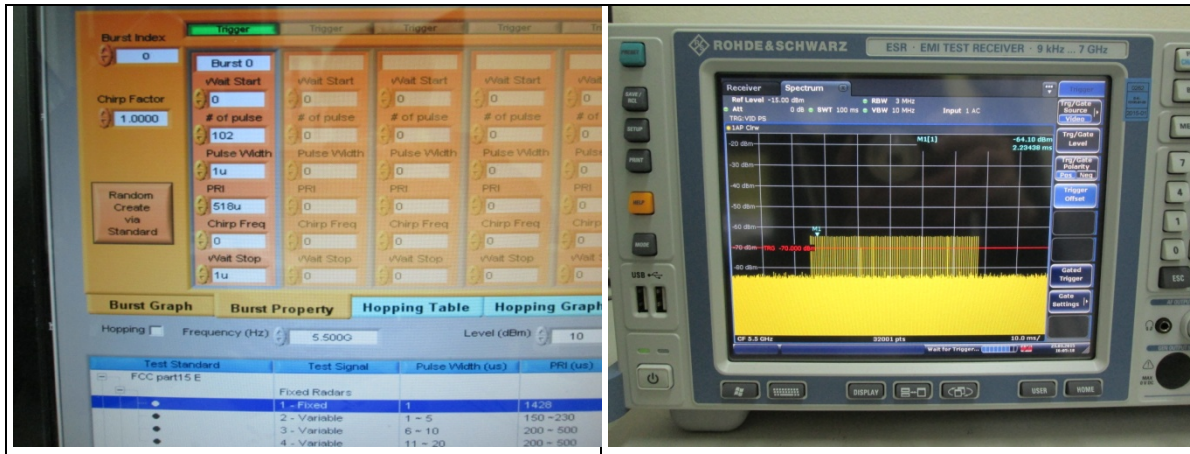


3) Radar signal is applied to the Master device and WiFi traffic signal stop immediately.

### Radar 0



### Radar 1



### Radar 2



### Radar 3



### Radar 4



### Radar 5



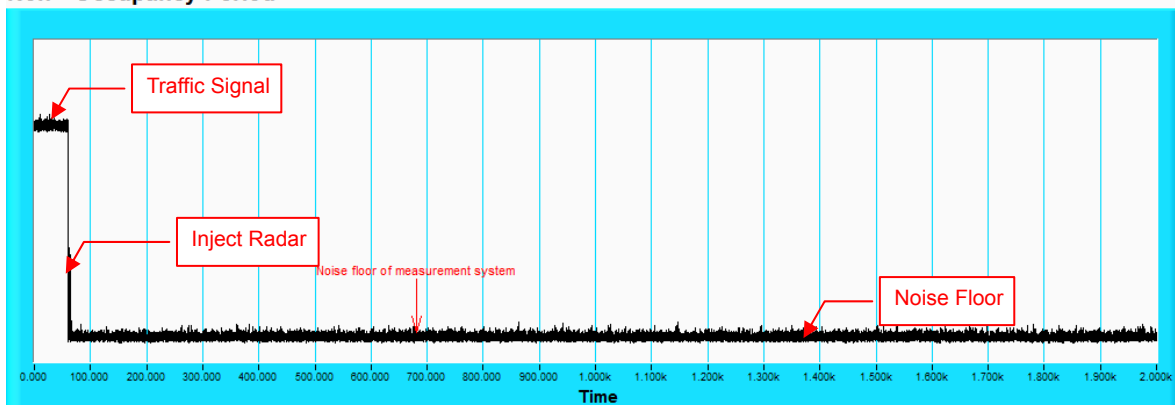
## Radar 6



4) 5510MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

## 802.11an HT20 Non - Occupancy Period



**NOTE:** Test setup are shown on Test setup photo.pdf

### 6.2.6 Uniform Spreading

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The EUT randomly select next output channel without any bias or fixed pattern, so that all channels in DFS bands (5250 to 5350MHz and 5470 to 5725 MHz) will be used equally.

### 6.2.7 Transmit power control (TPC)

| TPC | E.I.R.P | FCC 15.407(h)(1)                                                            |
|-----|---------|-----------------------------------------------------------------------------|
| √   | > 500mW | The TPC mechanism is required for system with an E.I.R.P. of above 500mW    |
|     | < 500mW | The TPC mechanism is not required for system with an E.I.R.P. of less 500mW |

## 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: 886-2-26051924

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

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Fax: 886-3-3270892

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

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

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## Annex A.1: The Detailed Radar pattern and Statistical Performance

| Type 1 Radar Statistical Performances |                                             |                        |                  |         |                       |           |
|---------------------------------------|---------------------------------------------|------------------------|------------------|---------|-----------------------|-----------|
| Trial #                               | Pulse Repetition Frequency Number (1 to 23) | PRF(Pulse per seconds) | Pulses per Burst | PRI (s) | Radar Frequency (MHz) | Detection |
| 1                                     | 1                                           | 1930.5                 | 102              | 518.0u  | 5490                  | Yes       |
| 2                                     | 2                                           | 1858.7                 | 99               | 538.0u  | 5491                  | Yes       |
| 3                                     | 3                                           | 1792.1                 | 95               | 558.0u  | 5492                  | Yes       |
| 4                                     | 4                                           | 1730.1                 | 92               | 578.0u  | 5493                  | Yes       |
| 5                                     | 5                                           | 1672.2                 | 89               | 598.0u  | 5494                  | Yes       |
| 6                                     | 7                                           | 1567.4                 | 83               | 638.0u  | 5496                  | Yes       |
| 7                                     | 8                                           | 1519.8                 | 81               | 658.0u  | 5498                  | Yes       |
| 8                                     | 9                                           | 1474.9                 | 78               | 678.0u  | 5500                  | Yes       |
| 9                                     | 10                                          | 1432.7                 | 76               | 698.0u  | 5502                  | Yes       |
| 10                                    | 11                                          | 1392.8                 | 74               | 718.0u  | 5504                  | Yes       |
| 11                                    | 12                                          | 1355                   | 72               | 738.0u  | 5506                  | Yes       |
| 12                                    | 15                                          | 1253.1                 | 67               | 798.0u  | 5507                  | Yes       |
| 13                                    | 16                                          | 1222.5                 | 65               | 818.0u  | 5508                  | Yes       |
| 14                                    | 17                                          | 1193.3                 | 63               | 838.0u  | 5509                  | Yes       |
| 15                                    | 20                                          | 1113.6                 | 59               | 898.0u  | 5508                  | Yes       |
| 16                                    |                                             | 1474.9                 | 78               | 679.0u  | 5502                  | Yes       |
| 17                                    |                                             | 1239.2                 | 66               | 807.0u  | 5507                  | Yes       |
| 18                                    |                                             | 1102.5                 | 59               | 907.0u  | 5501                  | Yes       |
| 19                                    |                                             | 1300.4                 | 69               | 769.0u  | 5500                  | Yes       |
| 20                                    |                                             | 1076.4                 | 57               | 929.0u  | 5499                  | Yes       |
| 21                                    |                                             | 1584.8                 | 84               | 631.0u  | 5495                  | Yes       |
| 22                                    |                                             | 1122.3                 | 60               | 891.0u  | 5500                  | Yes       |
| 23                                    |                                             | 1876.2                 | 100              | 533.0u  | 5497                  | Yes       |
| 24                                    |                                             | 1293.7                 | 69               | 773.0u  | 5496                  | Yes       |
| 25                                    |                                             | 1071.8                 | 57               | 933.0u  | 5495                  | Yes       |
| 26                                    |                                             | 1481.5                 | 79               | 675.0u  | 5493                  | Yes       |
| 27                                    |                                             | 1197.6                 | 64               | 835.0u  | 5492                  | Yes       |
| 28                                    |                                             | 1224.0                 | 65               | 817.0u  | 5502                  | Yes       |
| 29                                    |                                             | 1426.5                 | 76               | 701.0u  | 5501                  | Yes       |
| 30                                    |                                             | 326.3                  | 18               | 3.065m  | 5505                  | Yes       |
| Detection Rate: 100.0 %               |                                             |                        |                  |         |                       |           |

| Type 2 Radar Statistical Performances |                  |                 |         |                 |           |
|---------------------------------------|------------------|-----------------|---------|-----------------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection |
| 1                                     | 26               | 3.2u            | 179u    | 5491            | Yes       |
| 2                                     | 23               | 1.1u            | 207u    | 5509            | Yes       |
| 3                                     | 24               | 2.1u            | 230u    | 5492            | Yes       |
| 4                                     | 29               | 4.8u            | 200u    | 5508            | Yes       |
| 5                                     | 28               | 3.9u            | 214u    | 5493            | Yes       |
| 6                                     | 26               | 2.9u            | 222u    | 5490            | Yes       |
| 7                                     | 26               | 3.2u            | 204u    | 5498            | Yes       |
| 8                                     | 25               | 2.5u            | 192u    | 5497            | Yes       |
| 9                                     | 26               | 3.1u            | 164u    | 5500            | Yes       |
| 10                                    | 23               | 1.2u            | 156u    | 5510            | Yes       |
| 11                                    | 27               | 3.9u            | 210u    | 5496            | Yes       |
| 12                                    | 29               | 4.6u            | 201u    | 5503            | Yes       |
| 13                                    | 26               | 3.2u            | 162u    | 5502            | Yes       |
| 14                                    | 25               | 2.2u            | 197u    | 5506            | Yes       |
| 15                                    | 29               | 4.5u            | 163u    | 5504            | Yes       |
| 16                                    | 26               | 3u              | 203u    | 5507            | Yes       |
| 17                                    | 29               | 5u              | 168u    | 5494            | Yes       |
| 18                                    | 25               | 2.4u            | 217u    | 5505            | Yes       |
| 19                                    | 26               | 2.9u            | 191u    | 5501            | Yes       |
| 20                                    | 25               | 2.3u            | 166u    | 5495            | Yes       |
| 21                                    | 27               | 3.7u            | 150u    | 5499            | Yes       |
| 22                                    | 25               | 2.2u            | 176u    | 5499            | Yes       |
| 23                                    | 29               | 4.9u            | 195u    | 5490            | Yes       |
| 24                                    | 26               | 2.9u            | 202u    | 5492            | Yes       |
| 25                                    | 25               | 2.5u            | 178u    | 5502            | Yes       |
| 26                                    | 23               | 1.1u            | 206u    | 5494            | Yes       |
| 27                                    | 27               | 3.8u            | 155u    | 5495            | Yes       |
| 28                                    | 29               | 4.7u            | 157u    | 5510            | Yes       |
| 29                                    | 25               | 2.4u            | 224u    | 5507            | Yes       |
| 30                                    | 28               | 4.2u            | 159u    | 5498            | Yes       |
| Detection Rate: 100 %                 |                  |                 |         |                 |           |

| Type 3 Radar Statistical Performances |                  |                 |         |                 |           |
|---------------------------------------|------------------|-----------------|---------|-----------------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection |
| 1                                     | 17               | 8.2u            | 355u    | 5509            | Yes       |
| 2                                     | 16               | 6.1u            | 487u    | 5497            | Yes       |
| 3                                     | 16               | 7.1u            | 344u    | 5493            | Yes       |
| 4                                     | 18               | 9.8u            | 288u    | 5499            | Yes       |
| 5                                     | 18               | 8.9u            | 230u    | 5501            | Yes       |
| 6                                     | 17               | 7.9u            | 432u    | 5507            | Yes       |
| 7                                     | 17               | 8.2u            | 207u    | 5496            | Yes       |
| 8                                     | 17               | 7.5u            | 443u    | 5506            | Yes       |
| 9                                     | 17               | 8.1u            | 439u    | 5491            | Yes       |
| 10                                    | 16               | 6.2u            | 223u    | 5490            | Yes       |
| 11                                    | 18               | 8.9u            | 208u    | 5505            | Yes       |
| 12                                    | 18               | 9.6u            | 463u    | 5498            | Yes       |
| 13                                    | 17               | 8.2u            | 441u    | 5502            | Yes       |
| 14                                    | 16               | 7.2u            | 323u    | 5503            | Yes       |
| 15                                    | 18               | 9.5u            | 297u    | 5504            | Yes       |
| 16                                    | 17               | 8u              | 412u    | 5500            | Yes       |
| 17                                    | 18               | 10u             | 324u    | 5492            | Yes       |
| 18                                    | 17               | 7.4u            | 271u    | 5508            | Yes       |
| 19                                    | 17               | 7.9u            | 349u    | 5495            | Yes       |
| 20                                    | 16               | 7.3u            | 409u    | 5494            | Yes       |
| 21                                    | 18               | 8.7u            | 373u    | 5510            | Yes       |
| 22                                    | 16               | 7.2u            | 254u    | 5504            | No        |
| 23                                    | 18               | 9.9u            | 274u    | 5494            | Yes       |
| 24                                    | 17               | 7.9u            | 278u    | 5508            | Yes       |
| 25                                    | 17               | 7.5u            | 317u    | 5495            | Yes       |
| 26                                    | 16               | 6.1u            | 260u    | 5497            | Yes       |
| 27                                    | 18               | 8.8u            | 211u    | 5492            | Yes       |
| 28                                    | 18               | 9.7u            | 272u    | 5501            | Yes       |
| 29                                    | 17               | 7.4u            | 264u    | 5500            | Yes       |
| 30                                    | 18               | 9.2u            | 284u    | 5496            | Yes       |
| Detection Rate: 96.67 %               |                  |                 |         |                 |           |

| Type 4 Radar Statistical Performances |                  |                 |         |                 |           |
|---------------------------------------|------------------|-----------------|---------|-----------------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection |
| 1                                     | 14               | 16              | 355     | 5500            | Yes       |
| 2                                     | 12               | 11.3            | 487     | 5497            | Yes       |
| 3                                     | 13               | 13.5            | 344     | 5493            | Yes       |
| 4                                     | 16               | 19.4            | 288     | 5496            | No        |
| 5                                     | 15               | 17.5            | 230     | 5510            | Yes       |
| 6                                     | 14               | 15.3            | 432     | 5506            | No        |
| 7                                     | 14               | 15.9            | 207     | 5498            | Yes       |
| 8                                     | 13               | 14.3            | 443     | 5490            | Yes       |
| 9                                     | 14               | 15.8            | 439     | 5491            | Yes       |
| 10                                    | 12               | 11.5            | 223     | 5499            | Yes       |
| 11                                    | 15               | 17.4            | 208     | 5508            | Yes       |
| 12                                    | 16               | 19              | 463     | 5495            | Yes       |
| 13                                    | 14               | 16              | 441     | 5494            | Yes       |
| 14                                    | 13               | 13.8            | 323     | 5492            | Yes       |
| 15                                    | 16               | 18.9            | 297     | 5504            | Yes       |
| 16                                    | 14               | 15.5            | 412     | 5505            | Yes       |
| 17                                    | 16               | 19.9            | 324     | 5501            | Yes       |
| 18                                    | 13               | 14.1            | 271     | 5507            | No        |
| 19                                    | 14               | 15.2            | 349     | 5503            | Yes       |
| 20                                    | 13               | 13.8            | 409     | 5509            | Yes       |
| 21                                    | 15               | 17.1            | 373     | 5502            | No        |
| 22                                    | 13               | 13.8            | 254     | 5509            | Yes       |
| 23                                    | 16               | 19.8            | 274     | 5507            | Yes       |
| 24                                    | 14               | 15.3            | 278     | 5505            | Yes       |
| 25                                    | 13               | 14.5            | 317     | 5501            | No        |
| 26                                    | 12               | 11.3            | 260     | 5494            | Yes       |
| 27                                    | 15               | 17.3            | 211     | 5492            | Yes       |
| 28                                    | 16               | 19.2            | 272     | 5504            | Yes       |
| 29                                    | 13               | 14.2            | 264     | 5498            | No        |
| 30                                    | 15               | 18.2            | 284     | 5496            | No        |
| Detection Rate: 76.67 %               |                  |                 |         |                 |           |

| Type 5 Radar Statistical Performances |                  |                        |
|---------------------------------------|------------------|------------------------|
| Trial #                               | Test Signal Name | Detection              |
| 1                                     | LP_Signal_01     | Yes                    |
| 2                                     | LP_Signal_02     | Yes                    |
| 3                                     | LP_Signal_03     | No                     |
| 4                                     | LP_Signal_04     | Yes                    |
| 5                                     | LP_Signal_05     | Yes                    |
| 6                                     | LP_Signal_06     | Yes                    |
| 7                                     | LP_Signal_07     | Yes                    |
| 8                                     | LP_Signal_08     | Yes                    |
| 9                                     | LP_Signal_09     | Yes                    |
| 10                                    | LP_Signal_10     | No                     |
| 11                                    | LP_Signal_11     | Yes                    |
| 12                                    | LP_Signal_12     | Yes                    |
| 13                                    | LP_Signal_13     | No                     |
| 14                                    | LP_Signal_14     | Yes                    |
| 15                                    | LP_Signal_15     | Yes                    |
| 16                                    | LP_Signal_16     | No                     |
| 17                                    | LP_Signal_17     | Yes                    |
| 18                                    | LP_Signal_18     | Yes                    |
| 19                                    | LP_Signal_19     | Yes                    |
| 20                                    | LP_Signal_20     | Yes                    |
| 21                                    | LP_Signal_21     | Yes                    |
| 22                                    | LP_Signal_22     | Yes                    |
| 23                                    | LP_Signal_23     | Yes                    |
| 24                                    | LP_Signal_24     | Yes                    |
| 25                                    | LP_Signal_25     | Yes                    |
| 26                                    | LP_Signal_26     | Yes                    |
| 27                                    | LP_Signal_27     | Yes                    |
| 28                                    | LP_Signal_28     | Yes                    |
| 29                                    | LP_Signal_29     | Yes                    |
| 30                                    | LP_Signal_30     | Yes                    |
|                                       |                  | Detection Rate: 86.7 % |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_01  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5493MHz |                  |            |                 |                          |                          |                    |
| 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                | 5M         | 50.4u           | 1.916m                   | -                        | 334.6m             |
| 2                               | 2                | 5M         | 54.2u           | 1.760m                   | -                        | 40.17m             |
| 3                               | 2                | 5M         | 66.7u           | 1.591m                   | -                        | 375.0m             |
| 4                               | 1                | 5M         | 81.8u           | -                        | -                        | 224.8m             |
| 5                               | 3                | 5M         | 85.3u           | 1.562m                   | 1.550m                   | 598.5m             |
| 6                               | 2                | 5M         | 50.9u           | 1.097m                   | -                        | 247.8m             |
| 7                               | 3                | 5M         | 71.5u           | 1.403m                   | 1.250m                   | 384.9m             |
| 8                               | 1                | 5M         | 57.3u           | -                        | -                        | 545.1m             |
| 9                               | 1                | 5M         | 99.4u           | -                        | -                        | 327.7m             |
| 10                              | 2                | 5M         | 81.7u           | 1.762m                   | -                        | 346.5m             |
| 11                              | 3                | 5M         | 87.0u           | 1.625m                   | 1.683m                   | 237.2m             |
| 12                              | 2                | 5M         | 94.9u           | 1.522m                   | -                        | 585.4m             |
| 13                              | 2                | 5M         | 83.5u           | 1.529m                   | -                        | 480.1m             |
| 14                              | 2                | 5M         | 66.1u           | 1.677m                   | -                        | 545.9m             |
| 15                              | 2                | 5M         | 52.9u           | 1.709m                   | -                        | 563.8m             |
| 16                              | 3                | 5M         | 51.5u           | 1.865m                   | 1.887m                   | 433.2m             |
| 17                              | 1                | 5M         | 82.8u           | -                        | -                        | 4.846m             |
| 18                              | 2                | 5M         | 84.6u           | 957.4u                   | -                        | 397.1m             |
| 19                              | 3                | 5M         | 70.6u           | 1.247m                   | 1.791m                   | 432.2m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_02  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5493MHz |                  |            |                 |                          |                          |                    |
| 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         | 61.2u           | 1.793m                   | 1.857m                   | 398.8m             |
| 2                               | 1                | 5M         | 53.7u           | -                        | -                        | 300.3m             |
| 3                               | 2                | 5M         | 82.7u           | 1.900m                   | -                        | 154.0m             |
| 4                               | 3                | 5M         | 98.8u           | 1.369m                   | 1.879m                   | 7.212m             |
| 5                               | 2                | 5M         | 54.9u           | 1.516m                   | -                        | 475.2m             |
| 6                               | 3                | 5M         | 57.2u           | 1.640m                   | 1.396m                   | 427.7m             |
| 7                               | 2                | 5M         | 91.6u           | 1.507m                   | -                        | 435.3m             |
| 8                               | 2                | 5M         | 69.8u           | 1.897m                   | -                        | 349.7m             |
| 9                               | 2                | 5M         | 58.1u           | 1.668m                   | -                        | 584.4m             |
| 10                              | 2                | 5M         | 81.6u           | 1.380m                   | -                        | 184.8m             |
| 11                              | 2                | 5M         | 57.5u           | 1.242m                   | -                        | 221.2m             |
| 12                              | 3                | 5M         | 92.2u           | 1.227m                   | 913.8u                   | 353.3m             |
| 13                              | 2                | 5M         | 81.9u           | 1.129m                   | -                        | 486.4m             |
| 14                              | 2                | 5M         | 66.9u           | 1.395m                   | -                        | 235.5m             |
| 15                              | 1                | 5M         | 67.9u           | -                        | -                        | 415.5m             |
| 16                              | 3                | 5M         | 99.2u           | 1.884m                   | 1.803m                   | 462.9m             |
| 17                              | 2                | 5M         | 71.2u           | 1.043m                   | -                        | 214.2m             |
| 18                              | 1                | 5M         | 70.9u           | -                        | -                        | 379.4m             |
| 19                              | 2                | 5M         | 68.8u           | 1.209m                   | -                        | 322.3m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_03  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 18   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5494MHz |                  |            |                 |                          |                          |                    |
| 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                | 5M         | 64.8u           | 1.186m                   | -                        | 75.79m             |
| 2                               | 3                | 5M         | 95.3u           | 1.039m                   | 1.151m                   | 354.7m             |
| 3                               | 1                | 5M         | 58.2u           | -                        | -                        | 145.6m             |
| 4                               | 2                | 5M         | 96.2u           | 1.328m                   | -                        | 408.6m             |
| 5                               | 1                | 5M         | 70.0u           | -                        | -                        | 571.7m             |
| 6                               | 1                | 5M         | 97.0u           | -                        | -                        | 4.469m             |
| 7                               | 2                | 5M         | 74.8u           | 1.904m                   | -                        | 112.1m             |
| 8                               | 2                | 5M         | 86.3u           | 1.847m                   | -                        | 19.29m             |
| 9                               | 1                | 5M         | 56.7u           | -                        | -                        | 317.3m             |
| 10                              | 2                | 5M         | 61.0u           | 956.0u                   | -                        | 142.0m             |
| 11                              | 2                | 5M         | 71.0u           | 935.0u                   | -                        | 251.8m             |
| 12                              | 1                | 5M         | 54.2u           | -                        | -                        | 150.7m             |
| 13                              | 3                | 5M         | 90.1u           | 1.385m                   | 1.143m                   | 630.6m             |
| 14                              | 2                | 5M         | 99.6u           | 1.522m                   | -                        | 405.1m             |
| 15                              | 2                | 5M         | 67.1u           | 1.741m                   | -                        | 9.165m             |
| 16                              | 2                | 5M         | 50.8u           | 1.064m                   | -                        | 487.1m             |
| 17                              | 2                | 5M         | 78.9u           | 1.002m                   | -                        | 226.8m             |
| 18                              | 3                | 5M         | 87.7u           | 1.409m                   | 1.017m                   | 595.7m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_04  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 16   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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         | 58.3u           | 1.169m                   | 1.228m                   | 212.0m             |
| 2                               | 1                | 6M         | 67.9u           | -                        | -                        | 683.3m             |
| 3                               | 2                | 6M         | 76.5u           | 1.176m                   | -                        | 683.9m             |
| 4                               | 2                | 6M         | 54.8u           | 1.298m                   | -                        | 490.2m             |
| 5                               | 3                | 6M         | 79.2u           | 1.024m                   | 1.835m                   | 160.4m             |
| 6                               | 2                | 6M         | 89.3u           | 1.805m                   | -                        | 653.3m             |
| 7                               | 1                | 6M         | 77.2u           | -                        | -                        | 73.40m             |
| 8                               | 3                | 6M         | 89.4u           | 1.249m                   | 1.228m                   | 589.4m             |
| 9                               | 3                | 6M         | 97.7u           | 1.549m                   | 1.052m                   | 484.7m             |
| 10                              | 3                | 6M         | 99.5u           | 1.824m                   | 1.045m                   | 490.8m             |
| 11                              | 2                | 6M         | 62.4u           | 1.758m                   | -                        | 48.28m             |
| 12                              | 2                | 6M         | 99.1u           | 1.202m                   | -                        | 270.9m             |
| 13                              | 3                | 6M         | 92.6u           | 1.079m                   | 1.569m                   | 227.5m             |
| 14                              | 2                | 6M         | 87.4u           | 1.359m                   | -                        | 577.4m             |
| 15                              | 1                | 6M         | 81.1u           | -                        | -                        | 371.3m             |
| 16                              | 3                | 6M         | 50.5u           | 1.117m                   | 996.5u                   | 19.19m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_05  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 16   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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         | 61.5u           | 1.386m                   | -                        | 311.0m             |
| 2                               | 3                | 6M         | 67.1u           | 1.513m                   | 1.138m                   | 208.0m             |
| 3                               | 2                | 6M         | 96.6u           | 1.844m                   | -                        | 387.8m             |
| 4                               | 1                | 6M         | 82.7u           | -                        | -                        | 224.5m             |
| 5                               | 2                | 6M         | 67.8u           | 1.718m                   | -                        | 627.0m             |
| 6                               | 2                | 6M         | 87.2u           | 1.177m                   | -                        | 181.9m             |
| 7                               | 2                | 6M         | 67.9u           | 1.705m                   | -                        | 545.1m             |
| 8                               | 3                | 6M         | 92.8u           | 1.251m                   | 1.284m                   | 255.7m             |
| 9                               | 1                | 6M         | 68.4u           | -                        | -                        | 724.0m             |
| 10                              | 3                | 6M         | 70.6u           | 1.617m                   | 1.276m                   | 638.6m             |
| 11                              | 2                | 6M         | 79.2u           | 1.690m                   | -                        | 1.461m             |
| 12                              | 2                | 6M         | 66.8u           | 1.231m                   | -                        | 710.1m             |
| 13                              | 2                | 6M         | 79.3u           | 1.785m                   | -                        | 297.6m             |
| 14                              | 3                | 6M         | 52.6u           | 1.716m                   | 1.394m                   | 154.1m             |
| 15                              | 1                | 6M         | 51.5u           | -                        | -                        | 341.0m             |
| 16                              | 2                | 6M         | 60.8u           | 1.100m                   | -                        | 636.3m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_06  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 12   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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         | 74.4u           | -                        | -                        | 870.4m             |
| 2                               | 2                | 6M         | 73.0u           | 1.799m                   | -                        | 254.4m             |
| 3                               | 1                | 6M         | 69.1u           | -                        | -                        | 695.0m             |
| 4                               | 2                | 6M         | 80.4u           | 1.729m                   | -                        | 818.0m             |
| 5                               | 2                | 6M         | 80.1u           | 1.222m                   | -                        | 775.0m             |
| 6                               | 3                | 6M         | 61.6u           | 1.022m                   | 1.568m                   | 773.7m             |
| 7                               | 2                | 6M         | 72.5u           | 1.562m                   | -                        | 260.7m             |
| 8                               | 3                | 6M         | 69.9u           | 1.863m                   | 1.712m                   | 187.4m             |
| 9                               | 2                | 6M         | 98.9u           | 1.750m                   | -                        | 407.2m             |
| 10                              | 1                | 6M         | 86.5u           | -                        | -                        | 242.1m             |
| 11                              | 2                | 6M         | 67.5u           | 1.178m                   | -                        | 608.3m             |
| 12                              | 3                | 6M         | 85.8u           | 1.665m                   | 1.754m                   | 944.7m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_07  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 13   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5496MHz |                  |            |                 |                          |                          |                    |
| 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         | 52.9u           | 1.149m                   | -                        | 459.6m             |
| 2                               | 2                | 7M         | 72.7u           | 1.195m                   | -                        | 749.5m             |
| 3                               | 2                | 7M         | 84.3u           | 1.348m                   | -                        | 820.7m             |
| 4                               | 2                | 7M         | 77.1u           | 1.831m                   | -                        | 696.8m             |
| 5                               | 1                | 7M         | 99.5u           | -                        | -                        | 365.0m             |
| 6                               | 1                | 7M         | 81.5u           | -                        | -                        | 821.3m             |
| 7                               | 2                | 7M         | 66.5u           | 1.670m                   | -                        | 10.40m             |
| 8                               | 2                | 7M         | 94.2u           | 1.051m                   | -                        | 450.0m             |
| 9                               | 2                | 7M         | 54.3u           | 1.075m                   | -                        | 892.9m             |
| 10                              | 2                | 7M         | 97.5u           | 1.352m                   | -                        | 129.0m             |
| 11                              | 3                | 7M         | 66.1u           | 1.290m                   | 952.9u                   | 70.05m             |
| 12                              | 2                | 7M         | 64.0u           | 1.671m                   | -                        | 229.6m             |
| 13                              | 1                | 7M         | 50.9u           | -                        | -                        | 132.1m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_08  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5497MHz |                  |            |                 |                          |                          |                    |
| 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         | 53.0u           | 969.0u                   | -                        | 746.8m             |
| 2                               | 1                | 7M         | 63.4u           | -                        | -                        | 742.3m             |
| 3                               | 2                | 7M         | 50.2u           | 1.509m                   | -                        | 409.2m             |
| 4                               | 3                | 7M         | 60.1u           | 1.447m                   | 1.300m                   | 473.9m             |
| 5                               | 2                | 7M         | 80.0u           | 1.361m                   | -                        | 541.6m             |
| 6                               | 2                | 7M         | 54.0u           | 1.276m                   | -                        | 751.9m             |
| 7                               | 2                | 7M         | 86.4u           | 1.372m                   | -                        | 5.669m             |
| 8                               | 3                | 7M         | 67.1u           | 1.234m                   | 1.548m                   | 681.3m             |
| 9                               | 1                | 7M         | 83.2u           | -                        | -                        | 569.4m             |
| 10                              | 2                | 7M         | 89.6u           | 1.288m                   | -                        | 710.9m             |
| 11                              | 2                | 7M         | 68.4u           | 1.713m                   | -                        | 305.7m             |
| 12                              | 2                | 7M         | 98.4u           | 1.105m                   | -                        | 659.4m             |
| 13                              | 2                | 7M         | 53.8u           | 1.651m                   | -                        | 260.7m             |
| 14                              | 3                | 7M         | 90.7u           | 971.3u                   | 1.297m                   | 64.39m             |
| 15                              | 3                | 7M         | 88.5u           | 1.396m                   | 1.731m                   | 619.3m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_09  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5498MHz |                  |            |                 |                          |                          |                    |
| 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         | 88.9u           | -                        | -                        | 400.9m             |
| 2                               | 2                | 7M         | 87.7u           | 1.749m                   | -                        | 609.2m             |
| 3                               | 2                | 7M         | 50.6u           | 1.085m                   | -                        | 105.0m             |
| 4                               | 3                | 7M         | 91.1u           | 1.614m                   | 1.318m                   | 577.2m             |
| 5                               | 2                | 7M         | 74.9u           | 973.1u                   | -                        | 357.6m             |
| 6                               | 3                | 7M         | 73.2u           | 1.725m                   | 1.906m                   | 367.0m             |
| 7                               | 3                | 7M         | 80.3u           | 945.7u                   | 1.860m                   | 150.4m             |
| 8                               | 2                | 7M         | 95.3u           | 1.286m                   | -                        | 625.2m             |
| 9                               | 2                | 7M         | 84.7u           | 1.685m                   | -                        | 954.0u             |
| 10                              | 2                | 7M         | 59.4u           | 1.472m                   | -                        | 547.2m             |
| 11                              | 2                | 7M         | 86.9u           | 1.657m                   | -                        | 488.3m             |
| 12                              | 2                | 7M         | 58.6u           | 1.575m                   | -                        | 148.0m             |
| 13                              | 1                | 7M         | 97.1u           | -                        | -                        | 448.7m             |
| 14                              | 1                | 7M         | 75.6u           | -                        | -                        | 601.2m             |
| 15                              | 3                | 7M         | 66.8u           | 1.457m                   | 1.366m                   | 239.7m             |
| 16                              | 2                | 7M         | 79.2u           | 1.394m                   | -                        | 127.7m             |
| 17                              | 2                | 7M         | 50.1u           | 1.763m                   | -                        | 55.41m             |
| 18                              | 1                | 7M         | 73.1u           | -                        | -                        | 132.9m             |
| 19                              | 1                | 7M         | 51.8u           | -                        | -                        | 601.6m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_10  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 9    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5499MHz |                  |            |                 |                          |                          |                    |
| 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         | 93.1u           | 1.620m                   | -                        | 499.5m             |
| 2                               | 2                | 8M         | 90.9u           | 1.377m                   | -                        | 1.052              |
| 3                               | 3                | 8M         | 82.3u           | 1.050m                   | 941.7u                   | 104.9m             |
| 4                               | 2                | 8M         | 54.9u           | 1.127m                   | -                        | 1.141              |
| 5                               | 1                | 8M         | 91.9u           | -                        | -                        | 543.0m             |
| 6                               | 1                | 8M         | 67.1u           | -                        | -                        | 72.55m             |
| 7                               | 2                | 8M         | 57.6u           | 1.477m                   | -                        | 617.0m             |
| 8                               | 2                | 8M         | 79.3u           | 922.7u                   | -                        | 624.9m             |
| 9                               | 2                | 8M         | 85.0u           | 1.009m                   | -                        | 707.7m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_11  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 14   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5500MHz |                  |            |                 |                          |                          |                    |
| 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                | 8M         | 63.5u           | -                        | -                        | 839.9m             |
| 2                               | 3                | 8M         | 97.5u           | 1.416m                   | 925.5u                   | 48.28m             |
| 3                               | 1                | 8M         | 91.8u           | -                        | -                        | 752.4m             |
| 4                               | 1                | 8M         | 86.5u           | -                        | -                        | 143.7m             |
| 5                               | 2                | 8M         | 71.1u           | 1.545m                   | -                        | 601.8m             |
| 6                               | 1                | 8M         | 82.8u           | -                        | -                        | 148.8m             |
| 7                               | 1                | 8M         | 64.4u           | -                        | -                        | 386.1m             |
| 8                               | 1                | 8M         | 53.6u           | -                        | -                        | 560.5m             |
| 9                               | 1                | 8M         | 98.6u           | -                        | -                        | 725.7m             |
| 10                              | 3                | 8M         | 85.5u           | 1.115m                   | 1.136m                   | 119.7m             |
| 11                              | 1                | 8M         | 100.0u          | -                        | -                        | 278.8m             |
| 12                              | 3                | 8M         | 87.8u           | 946.2u                   | 1.112m                   | 177.8m             |
| 13                              | 2                | 8M         | 61.9u           | 1.555m                   | -                        | 393.5m             |
| 14                              | 3                | 8M         | 86.5u           | 1.084m                   | 1.587m                   | 38.97m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_12  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 9    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5501MHz |                  |            |                 |                          |                          |                    |
| 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         | 58.9u           | 1.002m                   | -                        | 989.2m             |
| 2                               | 3                | 8M         | 79.9u           | 1.077m                   | 1.801m                   | 660.2m             |
| 3                               | 1                | 8M         | 66.4u           | -                        | -                        | 769.1m             |
| 4                               | 3                | 8M         | 62.0u           | 1.858m                   | 1.539m                   | 163.1m             |
| 5                               | 2                | 8M         | 60.5u           | 1.679m                   | -                        | 587.7m             |
| 6                               | 2                | 8M         | 73.6u           | 1.760m                   | -                        | 712.2m             |
| 7                               | 1                | 8M         | 98.5u           | -                        | -                        | 501.0m             |
| 8                               | 2                | 8M         | 78.1u           | 1.302m                   | -                        | 756.8m             |
| 9                               | 3                | 8M         | 99.7u           | 1.069m                   | 1.783m                   | 557.6m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_13  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5499MHz |                  |            |                 |                          |                          |                    |
| 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                | 9M         | 89.4u           | -                        | -                        | 338.0m             |
| 2                               | 3                | 9M         | 68.3u           | 1.753m                   | 1.438m                   | 613.1m             |
| 3                               | 2                | 9M         | 63.6u           | 1.362m                   | -                        | 303.8m             |
| 4                               | 2                | 9M         | 80.5u           | 993.5u                   | -                        | 595.4m             |
| 5                               | 2                | 9M         | 73.6u           | 1.540m                   | -                        | 78.46m             |
| 6                               | 1                | 9M         | 87.3u           | -                        | -                        | 160.7m             |
| 7                               | 2                | 9M         | 74.5u           | 1.600m                   | -                        | 607.5m             |
| 8                               | 2                | 9M         | 77.4u           | 1.693m                   | -                        | 479.2m             |
| 9                               | 2                | 9M         | 78.4u           | 989.6u                   | -                        | 115.9m             |
| 10                              | 2                | 9M         | 93.1u           | 1.366m                   | -                        | 724.2m             |
| 11                              | 1                | 9M         | 84.2u           | -                        | -                        | 81.00m             |
| 12                              | 1                | 9M         | 74.9u           | -                        | -                        | 557.2m             |
| 13                              | 2                | 9M         | 81.2u           | 1.048m                   | -                        | 738.1m             |
| 14                              | 2                | 9M         | 55.9u           | 1.240m                   | -                        | 186.3m             |
| 15                              | 3                | 9M         | 76.3u           | 1.412m                   | 1.545m                   | 715.8m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_14  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 18   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5498MHz |                  |            |                 |                          |                          |                    |
| 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                | 9M         | 92.6u           | -                        | -                        | 574.7m             |
| 2                               | 3                | 9M         | 67.9u           | 1.272m                   | 1.316m                   | 302.6m             |
| 3                               | 1                | 9M         | 85.3u           | -                        | -                        | 195.7m             |
| 4                               | 2                | 9M         | 87.8u           | 1.863m                   | -                        | 517.8m             |
| 5                               | 2                | 9M         | 73.7u           | 1.364m                   | -                        | 350.7m             |
| 6                               | 1                | 9M         | 55.8u           | -                        | -                        | 569.5m             |
| 7                               | 3                | 9M         | 99.1u           | 936.9u                   | 1.756m                   | 652.9m             |
| 8                               | 2                | 9M         | 94.5u           | 1.889m                   | -                        | 175.3m             |
| 9                               | 2                | 9M         | 69.1u           | 1.741m                   | -                        | 186.8m             |
| 10                              | 2                | 9M         | 60.2u           | 1.826m                   | -                        | 144.5m             |
| 11                              | 2                | 9M         | 90.0u           | 1.419m                   | -                        | 500.0m             |
| 12                              | 2                | 9M         | 98.3u           | 1.336m                   | -                        | 157.3m             |
| 13                              | 2                | 9M         | 94.4u           | 1.660m                   | -                        | 479.9m             |
| 14                              | 3                | 9M         | 91.0u           | 1.788m                   | 1.474m                   | 137.2m             |
| 15                              | 1                | 9M         | 74.3u           | -                        | -                        | 351.9m             |
| 16                              | 2                | 9M         | 55.0u           | 1.665m                   | -                        | 89.03m             |
| 17                              | 3                | 9M         | 85.5u           | 981.5u                   | 1.182m                   | 444.9m             |
| 18                              | 2                | 9M         | 86.1u           | 1.623m                   | -                        | 259.0m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_15  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 20   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5502MHz |                  |            |                 |                          |                          |                    |
| 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                | 9M         | 94.6u           | -                        | -                        | 541.2m             |
| 2                               | 2                | 9M         | 94.3u           | 1.687m                   | -                        | 300.2m             |
| 3                               | 3                | 9M         | 67.5u           | 1.885m                   | 1.052m                   | 314.5m             |
| 4                               | 3                | 9M         | 51.5u           | 1.605m                   | 1.393m                   | 582.8m             |
| 5                               | 1                | 9M         | 96.5u           | -                        | -                        | 281.6m             |
| 6                               | 3                | 9M         | 93.8u           | 914.2u                   | 1.809m                   | 93.31m             |
| 7                               | 2                | 9M         | 52.4u           | 1.213m                   | -                        | 451.3m             |
| 8                               | 2                | 9M         | 89.2u           | 1.714m                   | -                        | 513.7m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 9  | 1 | 9M | 78.4u | -      | -      | 498.4m |
| 10 | 1 | 9M | 81.3u | -      | -      | 245.5m |
| 11 | 1 | 9M | 76.6u | -      | -      | 633.1m |
| 12 | 2 | 9M | 98.4u | 1.540m | -      | 80.05m |
| 13 | 2 | 9M | 72.1u | 1.237m | -      | 256.2m |
| 14 | 2 | 9M | 73.7u | 1.744m | -      | 548.2m |
| 15 | 2 | 9M | 66.1u | 1.736m | -      | 408.8m |
| 16 | 3 | 9M | 84.7u | 1.337m | 1.034m | 251.4m |
| 17 | 1 | 9M | 85.1u | -      | -      | 332.5m |
| 18 | 1 | 9M | 52.1u | -      | -      | 142.5m |
| 19 | 1 | 9M | 85.5u | -      | -      | 0.000  |
| 20 | 2 | 9M | 86.1u | 1.623m | -      | 259.0m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_16  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 14   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5503MHz |                  |            |                 |                          |                          |                    |
| 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        | 71.4u           | -                        | -                        | 617.2m             |
| 2                               | 1                | 11M        | 61.3u           | -                        | -                        | 743.0m             |
| 3                               | 2                | 11M        | 50.5u           | 1.638m                   | -                        | 406.0m             |
| 4                               | 2                | 11M        | 98.5u           | 1.317m                   | -                        | 487.7m             |
| 5                               | 3                | 11M        | 55.6u           | 1.159m                   | 1.086m                   | 759.9m             |
| 6                               | 2                | 11M        | 84.8u           | 933.2u                   | -                        | 641.4m             |
| 7                               | 2                | 11M        | 66.1u           | 1.885m                   | -                        | 68.60m             |
| 8                               | 2                | 11M        | 54.4u           | 1.740m                   | -                        | 286.3m             |
| 9                               | 2                | 11M        | 82.6u           | 1.772m                   | -                        | 664.4m             |
| 10                              | 1                | 11M        | 93.1u           | -                        | -                        | 801.1m             |
| 11                              | 1                | 11M        | 56.8u           | -                        | -                        | 546.2m             |
| 12                              | 2                | 11M        | 95.6u           | 1.737m                   | -                        | 93.59m             |
| 13                              | 1                | 11M        | 59.9u           | -                        | -                        | 705.3m             |
| 14                              | 1                | 11M        | 56.5u           | -                        | -                        | 714.6m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_17  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 8    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5496MHz |                  |            |                 |                          |                          |                    |
| 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        | 84.4u           | 1.421m                   | -                        | 801.3m             |
| 2                               | 3                | 11M        | 70.4u           | 1.837m                   | 1.413m                   | 694.8m             |
| 3                               | 1                | 11M        | 56.8u           | -                        | -                        | 852.3m             |
| 4                               | 2                | 11M        | 88.3u           | 1.609m                   | -                        | 214.6m             |
| 5                               | 3                | 11M        | 63.4u           | 1.206m                   | 1.734m                   | 788.8m             |
| 6                               | 3                | 11M        | 66.9u           | 942.1u                   | 1.551m                   | 502.0m             |
| 7                               | 3                | 11M        | 67.8u           | 938.2u                   | 1.580m                   | 404.8m             |
| 8                               | 2                | 11M        | 68.5u           | 1.233m                   | -                        | 191.0m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_18  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 14   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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        | 80.5u           | 1.232m                   | -                        | 80.10m             |
| 2                               | 3                | 11M        | 56.7u           | 1.751m                   | 1.546m                   | 522.8m             |
| 3                               | 2                | 11M        | 91.9u           | 1.088m                   | -                        | 90.81m             |
| 4                               | 1                | 11M        | 96.0u           | -                        | -                        | 616.9m             |
| 5                               | 3                | 11M        | 96.7u           | 1.860m                   | 1.465m                   | 333.2m             |
| 6                               | 1                | 11M        | 81.1u           | -                        | -                        | 272.7m             |
| 7                               | 2                | 11M        | 56.3u           | 1.563m                   | -                        | 399.8m             |
| 8                               | 1                | 11M        | 82.2u           | -                        | -                        | 311.4m             |
| 9                               | 3                | 11M        | 66.5u           | 1.751m                   | 1.086m                   | 413.8m             |
| 10                              | 1                | 11M        | 93.7u           | -                        | -                        | 87.24m             |
| 11                              | 3                | 11M        | 80.2u           | 993.8u                   | 1.009m                   | 213.3m             |
| 12                              | 1                | 11M        | 62.0u           | -                        | -                        | 216.1m             |
| 13                              | 2                | 11M        | 89.6u           | 969.4u                   | -                        | 624.3m             |
| 14                              | 2                | 11M        | 55.3u           | 1.157m                   | -                        | 75.19m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_19  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5504MHz |                  |            |                 |                          |                          |                    |
| 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        | 72.1u           | 1.176m                   | 1.245m                   | 711.3m             |
| 2                               | 3                | 13M        | 66.5u           | 1.451m                   | 952.5u                   | 689.2m             |
| 3                               | 2                | 13M        | 97.3u           | 1.333m                   | -                        | 62.65m             |
| 4                               | 2                | 13M        | 67.6u           | 1.035m                   | -                        | 387.6m             |
| 5                               | 1                | 13M        | 51.6u           | -                        | -                        | 26.37m             |
| 6                               | 2                | 13M        | 87.9u           | 1.499m                   | -                        | 438.2m             |
| 7                               | 2                | 13M        | 88.9u           | 1.856m                   | -                        | 606.1m             |
| 8                               | 3                | 13M        | 76.6u           | 1.341m                   | 1.440m                   | 646.0m             |
| 9                               | 2                | 13M        | 65.9u           | 1.898m                   | -                        | 262.9m             |
| 10                              | 2                | 13M        | 65.9u           | 1.233m                   | -                        | 530.7m             |
| 11                              | 1                | 13M        | 56.8u           | -                        | -                        | 94.44m             |
| 12                              | 3                | 13M        | 95.3u           | 1.778m                   | 1.437m                   | 485.4m             |
| 13                              | 1                | 13M        | 89.3u           | -                        | -                        | 384.7m             |
| 14                              | 2                | 13M        | 77.2u           | 1.862m                   | -                        | 516.6m             |
| 15                              | 2                | 13M        | 67.4u           | 1.159m                   | -                        | 275.1m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_20  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 12   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5505MHz |                  |            |                 |                          |                          |                    |
| 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                | 13M        | 53.7u           | 1.723m                   | -                        | 960.3m             |
| 2                               | 1                | 13M        | 62.9u           | -                        | -                        | 407.9m             |
| 3                               | 2                | 13M        | 96.2u           | 1.404m                   | -                        | 686.3m             |
| 4                               | 1                | 13M        | 85.8u           | -                        | -                        | 924.7m             |
| 5                               | 3                | 13M        | 62.8u           | 1.023m                   | 1.462m                   | 609.4m             |
| 6                               | 1                | 13M        | 56.3u           | -                        | -                        | 569.8m             |
| 7                               | 3                | 13M        | 65.9u           | 1.348m                   | 1.373m                   | 90.93m             |
| 8                               | 2                | 13M        | 74.4u           | 962.6u                   | -                        | 131.7m             |
| 9                               | 1                | 13M        | 71.5u           | -                        | -                        | 336.0m             |
| 10                              | 3                | 13M        | 53.7u           | 1.897m                   | 1.247m                   | 38.16m             |

|    |   |     |       |        |   |        |
|----|---|-----|-------|--------|---|--------|
| 11 | 2 | 13M | 60.4u | 1.372m | - | 18.91m |
| 12 | 1 | 13M | 69.1u | -      | - | 576.4m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_21  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 14   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5506MHz |                  |            |                 |                          |                          |                    |
| 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                | 13M        | 87.9u           | 1.555m                   | -                        | 82.46m             |
| 2                               | 2                | 13M        | 56.0u           | 1.119m                   | -                        | 628.1m             |
| 3                               | 2                | 13M        | 83.0u           | 1.298m                   | -                        | 406.7m             |
| 4                               | 2                | 13M        | 95.1u           | 1.626m                   | -                        | 592.7m             |
| 5                               | 2                | 13M        | 61.6u           | 1.456m                   | -                        | 268.8m             |
| 6                               | 3                | 13M        | 97.8u           | 979.2u                   | 1.872m                   | 334.8m             |
| 7                               | 3                | 13M        | 64.2u           | 1.202m                   | 1.322m                   | 210.8m             |
| 8                               | 3                | 13M        | 72.2u           | 1.247m                   | 1.859m                   | 687.8m             |
| 9                               | 2                | 13M        | 85.8u           | 1.236m                   | -                        | 674.3m             |
| 10                              | 2                | 13M        | 74.0u           | 1.168m                   | -                        | 830.0m             |
| 11                              | 3                | 13M        | 91.3u           | 1.337m                   | 1.469m                   | 613.3m             |
| 12                              | 2                | 13M        | 88.1u           | 1.095m                   | -                        | 524.0m             |
| 13                              | 2                | 13M        | 96.8u           | 1.490m                   | -                        | 491.4m             |
| 14                              | 1                | 13M        | 60.2u           | -                        | -                        | 662.7m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_22  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 20   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5507MHz |                  |            |                 |                          |                          |                    |
| 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                | 16M        | 90.8u           | 1.363m                   | -                        | 359.9m             |
| 2                               | 1                | 16M        | 79.7u           | -                        | -                        | 257.3m             |
| 3                               | 1                | 16M        | 95.3u           | -                        | -                        | 222.6m             |
| 4                               | 2                | 16M        | 75.3u           | 1.844m                   | -                        | 346.1m             |
| 5                               | 3                | 16M        | 50.2u           | 1.471m                   | 1.870m                   | 214.7m             |
| 6                               | 2                | 16M        | 74.4u           | 1.154m                   | -                        | 236.1m             |
| 7                               | 2                | 16M        | 97.2u           | 1.830m                   | -                        | 295.6m             |
| 8                               | 2                | 16M        | 97.0u           | 1.512m                   | -                        | 235.6m             |
| 9                               | 1                | 16M        | 58.9u           | -                        | -                        | 567.2m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 10 | 2 | 16M | 74.8u | 1.440m | -      | 15.56m |
| 11 | 2 | 16M | 76.9u | 1.496m | -      | 29.78m |
| 12 | 1 | 16M | 69.6u | -      | -      | 469.7m |
| 13 | 3 | 16M | 96.3u | 995.7u | 958.7u | 279.9m |
| 14 | 2 | 16M | 56.3u | 1.771m | -      | 13.09m |
| 15 | 3 | 16M | 98.0u | 1.185m | 1.284m | 482.3m |
| 16 | 1 | 16M | 50.4u | -      | -      | 333.2m |
| 17 | 3 | 16M | 79.7u | 1.692m | 1.393m | 356.8m |
| 18 | 3 | 16M | 72.2u | 1.593m | 1.459m | 192.6m |
| 19 | 2 | 16M | 83.3u | 1.442m | -      | 429.6m |
| 20 | 2 | 16M | 97.4u | 1.286m | -      | 69.43m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_23  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 16   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5506MHz |                  |            |                 |                          |                          |                    |
| 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                | 16M        | 95.3u           | -                        | -                        | 108.6m             |
| 2                               | 2                | 16M        | 53.1u           | 1.606m                   | -                        | 65.83m             |
| 3                               | 3                | 16M        | 96.8u           | 1.488m                   | 1.352m                   | 2.636m             |
| 4                               | 2                | 16M        | 67.5u           | 1.301m                   | -                        | 327.5m             |
| 5                               | 3                | 16M        | 55.6u           | 1.122m                   | 1.431m                   | 138.8m             |
| 6                               | 1                | 16M        | 50.8u           | -                        | -                        | 12.03m             |
| 7                               | 2                | 16M        | 53.4u           | 1.503m                   | -                        | 456.4m             |
| 8                               | 3                | 16M        | 54.8u           | 1.412m                   | 1.710m                   | 520.5m             |
| 9                               | 3                | 16M        | 53.7u           | 1.685m                   | 1.762m                   | 465.8m             |
| 10                              | 2                | 16M        | 60.3u           | 1.837m                   | -                        | 679.9m             |
| 11                              | 2                | 16M        | 91.2u           | 1.027m                   | -                        | 500.3m             |
| 12                              | 2                | 16M        | 95.7u           | 1.804m                   | -                        | 154.5m             |
| 13                              | 2                | 16M        | 70.0u           | 1.808m                   | -                        | 89.20m             |
| 14                              | 2                | 16M        | 72.9u           | 1.045m                   | -                        | 617.0m             |
| 15                              | 2                | 16M        | 94.5u           | 1.540m                   | -                        | 399.1m             |
| 16                              | 3                | 16M        | 67.8u           | 1.932m                   | 1.398m                   | 689.5m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_24  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 20   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5505MHz |                  |            |                 |                          |                          |                    |
| 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                | 16M        | 99.6u           | -                        | -                        | 17.15m             |
| 2                               | 2                | 16M        | 93.7u           | 1.550m                   | -                        | 451.0m             |
| 3                               | 2                | 16M        | 56.2u           | 1.695m                   | -                        | 50.30m             |
| 4                               | 2                | 16M        | 97.4u           | 1.595m                   | -                        | 38.25m             |
| 5                               | 3                | 16M        | 95.7u           | 1.758m                   | 1.330m                   | 461.8m             |
| 6                               | 2                | 16M        | 96.5u           | 1.594m                   | -                        | 383.8m             |
| 7                               | 2                | 16M        | 64.4u           | 1.496m                   | -                        | 585.0m             |
| 8                               | 2                | 16M        | 51.8u           | 1.463m                   | -                        | 38.37m             |
| 9                               | 2                | 16M        | 88.9u           | 1.014m                   | -                        | 467.6m             |
| 10                              | 2                | 16M        | 90.0u           | 1.787m                   | -                        | 401.9m             |
| 11                              | 2                | 16M        | 64.5u           | 1.632m                   | -                        | 179.2m             |
| 12                              | 2                | 16M        | 90.5u           | 1.865m                   | -                        | 311.0m             |
| 13                              | 2                | 16M        | 89.0u           | 1.668m                   | -                        | 304.5m             |
| 14                              | 3                | 16M        | 56.3u           | 1.495m                   | 1.440m                   | 358.9m             |
| 15                              | 2                | 16M        | 70.0u           | 1.613m                   | -                        | 385.4m             |
| 16                              | 2                | 16M        | 68.5u           | 1.071m                   | -                        | 131.7m             |
| 17                              | 1                | 16M        | 90.7u           | -                        | -                        | 171.0m             |
| 18                              | 3                | 16M        | 59.2u           | 1.357m                   | 1.500m                   | 74.09m             |
| 19                              | 2                | 16M        | 75.4u           | 1.259m                   | -                        | 263.9m             |
| 20                              | 2                | 16M        | 59.9u           | 1.439m                   | -                        | 223.9m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_25  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 17   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5504MHz |                  |            |                 |                          |                          |                    |
| 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                | 18M        | 72.0u           | -                        | -                        | 413.7m             |
| 2                               | 3                | 18M        | 76.9u           | 1.097m                   | 1.376m                   | 354.9m             |
| 3                               | 1                | 18M        | 75.2u           | -                        | -                        | 599.4m             |
| 4                               | 2                | 18M        | 93.0u           | 1.493m                   | -                        | 250.8m             |
| 5                               | 3                | 18M        | 57.1u           | 1.585m                   | 1.588m                   | 420.6m             |
| 6                               | 2                | 18M        | 50.8u           | 1.717m                   | -                        | 539.4m             |
| 7                               | 1                | 18M        | 65.7u           | -                        | -                        | 28.59m             |
| 8                               | 3                | 18M        | 77.0u           | 1.202m                   | 971.0u                   | 391.0m             |
| 9                               | 2                | 18M        | 68.2u           | 1.440m                   | -                        | 564.1m             |
| 10                              | 2                | 18M        | 82.5u           | 1.844m                   | -                        | 422.2m             |
| 11                              | 2                | 18M        | 73.2u           | 1.822m                   | -                        | 136.1m             |
| 12                              | 2                | 18M        | 63.3u           | 1.267m                   | -                        | 319.8m             |
| 13                              | 2                | 18M        | 99.0u           | 1.166m                   | -                        | 656.0m             |
| 14                              | 2                | 18M        | 90.2u           | 1.503m                   | -                        | 202.4m             |
| 15                              | 1                | 18M        | 83.7u           | -                        | -                        | 579.4m             |
| 16                              | 1                | 18M        | 74.6u           | -                        | -                        | 461.2m             |
| 17                              | 3                | 18M        | 80.6u           | 1.132m                   | 986.4u                   | 29.06m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_26  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 12   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5503MHz |                  |            |                 |                          |                          |                    |
| 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        | 90.4u           | 1.021m                   | 1.876m                   | 544.8m             |
| 2                               | 2                | 18M        | 55.2u           | 1.474m                   | -                        | 795.9m             |
| 3                               | 2                | 18M        | 73.1u           | 1.677m                   | -                        | 575.1m             |
| 4                               | 1                | 18M        | 76.9u           | -                        | -                        | 838.4m             |
| 5                               | 2                | 18M        | 71.7u           | 1.243m                   | -                        | 16.19m             |
| 6                               | 2                | 18M        | 69.6u           | 1.237m                   | -                        | 192.7m             |
| 7                               | 2                | 18M        | 93.1u           | 1.641m                   | -                        | 921.6m             |
| 8                               | 2                | 18M        | 84.6u           | 1.422m                   | -                        | 329.5m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 9  | 3 | 18M | 53.7u | 1.569m | 1.097m | 564.7m |
| 10 | 2 | 18M | 79.1u | 1.416m | -      | 260.3m |
| 11 | 1 | 18M | 98.6u | -      | -      | 191.5m |
| 12 | 2 | 18M | 74.9u | 1.357m | -      | 211.0m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_27  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5502MHz |                  |            |                 |                          |                          |                    |
| 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                | 18M        | 83.6u           | 1.855m                   | -                        | 495.3m             |
| 2                               | 3                | 18M        | 55.5u           | 1.448m                   | 1.708m                   | 215.6m             |
| 3                               | 2                | 18M        | 70.2u           | 1.478m                   | -                        | 561.7m             |
| 4                               | 2                | 18M        | 64.9u           | 1.288m                   | -                        | 595.7m             |
| 5                               | 2                | 18M        | 62.4u           | 1.276m                   | -                        | 111.2m             |
| 6                               | 2                | 18M        | 94.7u           | 1.555m                   | -                        | 137.8m             |
| 7                               | 3                | 18M        | 90.7u           | 1.210m                   | 909.3u                   | 343.8m             |
| 8                               | 2                | 18M        | 52.8u           | 1.222m                   | -                        | 530.2m             |
| 9                               | 1                | 18M        | 81.4u           | -                        | -                        | 289.4m             |
| 10                              | 3                | 18M        | 65.5u           | 1.063m                   | 1.533m                   | 231.9m             |
| 11                              | 2                | 18M        | 86.2u           | 964.8u                   | -                        | 187.7m             |
| 12                              | 2                | 18M        | 76.0u           | 1.754m                   | -                        | 294.4m             |
| 13                              | 2                | 18M        | 68.7u           | 937.3u                   | -                        | 413.6m             |
| 14                              | 2                | 18M        | 92.7u           | 1.176m                   | -                        | 166.7m             |
| 15                              | 3                | 18M        | 65.6u           | 1.000m                   | 1.054m                   | 405.5m             |
| 16                              | 2                | 18M        | 90.8u           | 1.227m                   | -                        | 142.0m             |
| 17                              | 3                | 18M        | 88.6u           | 1.603m                   | 1.775m                   | 462.3m             |
| 18                              | 1                | 18M        | 52.1u           | -                        | -                        | 317.1m             |
| 19                              | 2                | 18M        | 58.9u           | 1.918m                   | -                        | 587.3m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_28  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 20   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5501MHz |                  |            |                 |                          |                          |                    |
| 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                | 20M        | 63.1u           | 1.352m                   | -                        | 165.6m             |
| 2                               | 2                | 20M        | 58.9u           | 1.458m                   | -                        | 231.2m             |
| 3                               | 2                | 20M        | 77.9u           | 1.812m                   | -                        | 578.2m             |
| 4                               | 2                | 20M        | 55.4u           | 1.834m                   | -                        | 493.0m             |
| 5                               | 3                | 20M        | 93.5u           | 1.337m                   | 1.895m                   | 207.5m             |
| 6                               | 2                | 20M        | 92.8u           | 1.212m                   | -                        | 161.6m             |
| 7                               | 3                | 20M        | 60.2u           | 1.500m                   | 1.299m                   | 450.6m             |
| 8                               | 3                | 20M        | 92.9u           | 980.1u                   | 1.224m                   | 70.72m             |
| 9                               | 3                | 20M        | 68.5u           | 1.737m                   | 1.169m                   | 263.0m             |
| 10                              | 2                | 20M        | 85.6u           | 967.4u                   | -                        | 128.5m             |
| 11                              | 2                | 20M        | 85.4u           | 1.165m                   | -                        | 495.9m             |
| 12                              | 2                | 20M        | 68.2u           | 1.498m                   | -                        | 88.26m             |
| 13                              | 2                | 20M        | 66.6u           | 1.769m                   | -                        | 10.88m             |
| 14                              | 3                | 20M        | 56.7u           | 1.517m                   | 1.056m                   | 393.2m             |
| 15                              | 1                | 20M        | 61.9u           | -                        | -                        | 488.3m             |
| 16                              | 3                | 20M        | 92.9u           | 1.185m                   | 1.163m                   | 309.7m             |
| 17                              | 2                | 20M        | 59.6u           | 1.139m                   | -                        | 243.6m             |
| 18                              | 3                | 20M        | 71.4u           | 1.337m                   | 1.026m                   | 381.3m             |
| 19                              | 3                | 20M        | 66.5u           | 1.886m                   | 1.669m                   | 75.38m             |
| 20                              | 1                | 20M        | 99.2u           | -                        | -                        | 205.0m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_29  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5500MHz |                  |            |                 |                          |                          |                    |
| 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                | 20M        | 63.9u           | -                        | -                        | 77.33m             |
| 2                               | 2                | 20M        | 94.7u           | 1.807m                   | -                        | 47.69m             |
| 3                               | 2                | 20M        | 55.2u           | 1.653m                   | -                        | 235.8m             |
| 4                               | 1                | 20M        | 88.6u           | -                        | -                        | 734.4m             |
| 5                               | 3                | 20M        | 58.9u           | 1.448m                   | 1.576m                   | 594.5m             |
| 6                               | 3                | 20M        | 80.2u           | 1.051m                   | 1.328m                   | 738.1m             |
| 7                               | 2                | 20M        | 51.8u           | 1.771m                   | -                        | 610.0m             |
| 8                               | 1                | 20M        | 58.2u           | -                        | -                        | 187.6m             |
| 9                               | 3                | 20M        | 51.5u           | 1.442m                   | 1.642m                   | 91.17m             |
| 10                              | 2                | 20M        | 54.6u           | 1.066m                   | -                        | 128.0m             |
| 11                              | 3                | 20M        | 92.5u           | 1.718m                   | 1.207m                   | 337.4m             |
| 12                              | 3                | 20M        | 88.1u           | 1.794m                   | 1.583m                   | 438.5m             |
| 13                              | 2                | 20M        | 63.5u           | 1.643m                   | -                        | 214.3m             |
| 14                              | 2                | 20M        | 73.1u           | 959.9u                   | -                        | 235.5m             |
| 15                              | 1                | 20M        | 71.4u           | -                        | -                        | 509.1m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_30  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 18   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5499MHz |                  |            |                 |                          |                          |                    |
| 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                | 20M        | 58.6u           | -                        | -                        | 36.12m             |
| 2                               | 2                | 20M        | 92.0u           | 1.831m                   | -                        | 301.7m             |
| 3                               | 2                | 20M        | 97.4u           | 1.173m                   | -                        | 286.9m             |
| 4                               | 2                | 20M        | 57.0u           | 979.0u                   | -                        | 55.23m             |
| 5                               | 1                | 20M        | 66.5u           | -                        | -                        | 376.4m             |
| 6                               | 2                | 20M        | 78.9u           | 1.100m                   | -                        | 434.4m             |
| 7                               | 2                | 20M        | 70.2u           | 1.681m                   | -                        | 626.6m             |
| 8                               | 3                | 20M        | 72.3u           | 1.233m                   | 1.537m                   | 438.6m             |
| 9                               | 2                | 20M        | 59.1u           | 1.565m                   | -                        | 429.8m             |
| 10                              | 1                | 20M        | 50.4u           | -                        | -                        | 446.6m             |
| 11                              | 2                | 20M        | 88.1u           | 1.050m                   | -                        | 371.0m             |
| 12                              | 2                | 20M        | 52.9u           | 1.220m                   | -                        | 91.61m             |
| 13                              | 1                | 20M        | 95.1u           | -                        | -                        | 395.7m             |
| 14                              | 1                | 20M        | 82.4u           | -                        | -                        | 374.5m             |
| 15                              | 2                | 20M        | 96.3u           | 992.7u                   | -                        | 595.6m             |
| 16                              | 2                | 20M        | 91.4u           | 1.793m                   | -                        | 121.7m             |
| 17                              | 2                | 20M        | 97.6u           | 1.191m                   | -                        | 331.3m             |
| 18                              | 2                | 20M        | 61.0u           | 1.695m                   | -                        | 56.15m             |

| 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 % |

| Type 6 Radar Statistical Performances |                                 |                         |
|---------------------------------------|---------------------------------|-------------------------|
| Trial #                               | Hopping Frequency Sequence Name | Detection               |
| 1                                     | HOP_FREQ_SEQ_01                 | Yes                     |
| 2                                     | HOP_FREQ_SEQ_02                 | Yes                     |
| 3                                     | HOP_FREQ_SEQ_03                 | Yes                     |
| 4                                     | HOP_FREQ_SEQ_04                 | Yes                     |
| 5                                     | HOP_FREQ_SEQ_05                 | Yes                     |
| 6                                     | HOP_FREQ_SEQ_06                 | Yes                     |
| 7                                     | HOP_FREQ_SEQ_07                 | Yes                     |
| 8                                     | HOP_FREQ_SEQ_08                 | Yes                     |
| 9                                     | HOP_FREQ_SEQ_09                 | Yes                     |
| 10                                    | HOP_FREQ_SEQ_10                 | Yes                     |
| 11                                    | HOP_FREQ_SEQ_11                 | Yes                     |
| 12                                    | HOP_FREQ_SEQ_12                 | Yes                     |
| 13                                    | HOP_FREQ_SEQ_13                 | Yes                     |
| 14                                    | HOP_FREQ_SEQ_14                 | Yes                     |
| 15                                    | HOP_FREQ_SEQ_15                 | Yes                     |
| 16                                    | HOP_FREQ_SEQ_16                 | Yes                     |
| 17                                    | HOP_FREQ_SEQ_17                 | Yes                     |
| 18                                    | HOP_FREQ_SEQ_18                 | Yes                     |
| 19                                    | HOP_FREQ_SEQ_19                 | Yes                     |
| 20                                    | HOP_FREQ_SEQ_20                 | Yes                     |
| 21                                    | HOP_FREQ_SEQ_21                 | Yes                     |
| 22                                    | HOP_FREQ_SEQ_22                 | Yes                     |
| 23                                    | HOP_FREQ_SEQ_23                 | Yes                     |
| 24                                    | HOP_FREQ_SEQ_24                 | Yes                     |
| 25                                    | HOP_FREQ_SEQ_25                 | Yes                     |
| 26                                    | HOP_FREQ_SEQ_26                 | Yes                     |
| 27                                    | HOP_FREQ_SEQ_27                 | Yes                     |
| 28                                    | HOP_FREQ_SEQ_28                 | Yes                     |
| 29                                    | HOP_FREQ_SEQ_29                 | Yes                     |
| 30                                    | HOP_FREQ_SEQ_30                 | Yes                     |
|                                       |                                 | Detection Rate: 100.0 % |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.594G            | 2    | 5.685G            | 3    | 5.361G            | 4    | 5.582G            |
| 5                                                | 5.699G            | 6    | 5.598G            | 7    | 5.352G            | 8    | 5.301G            |
| 9                                                | 5.658G            | 10   | 5.311G            | 11   | 5.696G            | 12   | 5.278G            |
| 13                                               | 5.529G            | 14   | 5.462G            | 15   | 5.313G            | 16   | 5.655G            |
| 17                                               | 5.523G            | 18   | 5.390G            | 19   | 5.282G            | 20   | 5.273G            |
| 21                                               | 5.339G            | 22   | 5.595G            | 23   | 5.434G            | 24   | 5.300G            |
| 25                                               | 5.351G            | 26   | 5.617G            | 27   | 5.250G            | 28   | 5.436G            |
| 29                                               | 5.605G            | 30   | 5.508G            | 31   | 5.307G            | 32   | 5.636G            |
| 33                                               | 5.294G            | 34   | 5.401G            | 35   | 5.601G            | 36   | 5.460G            |
| 37                                               | 5.587G            | 38   | 5.324G            | 39   | 5.314G            | 40   | 5.349G            |
| 41                                               | 5.654G            | 42   | 5.576G            | 43   | 5.432G            | 44   | 5.413G            |
| 45                                               | 5.538G            | 46   | 5.336G            | 47   | 5.378G            | 48   | 5.702G            |
| 49                                               | 5.542G            | 50   | 5.417G            | 51   | 5.723G            | 52   | 5.374G            |
| 53                                               | 5.535G            | 54   | 5.485G            | 55   | 5.302G            | 56   | 5.635G            |
| 57                                               | 5.384G            | 58   | 5.503G            | 59   | 5.387G            | 60   | 5.575G            |
| 61                                               | 5.465G            | 62   | 5.297G            | 63   | 5.440G            | 64   | 5.602G            |
| 65                                               | 5.691G            | 66   | 5.715G            | 67   | 5.565G            | 68   | 5.579G            |
| 69                                               | 5.698G            | 70   | 5.500G            | 71   | 5.252G            | 72   | 5.649G            |
| 73                                               | 5.272G            | 74   | 5.589G            | 75   | 5.711G            | 76   | 5.712G            |
| 77                                               | 5.359G            | 78   | 5.592G            | 79   | 5.624G            | 80   | 5.671G            |
| 81                                               | 5.545G            | 82   | 5.402G            | 83   | 5.445G            | 84   | 5.514G            |
| 85                                               | 5.549G            | 86   | 5.291G            | 87   | 5.317G            | 88   | 5.299G            |
| 89                                               | 5.501G            | 90   | 5.554G            | 91   | 5.293G            | 92   | 5.285G            |
| 93                                               | 5.546G            | 94   | 5.253G            | 95   | 5.379G            | 96   | 5.551G            |
| 97                                               | 5.350G            | 98   | 5.550G            | 99   | 5.447G            | 100  | 5.358G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.376G            | 2    | 5.709G            | 3    | 5.610G            | 4    | 5.380G            |
| 5                                                | 5.421G            | 6    | 5.506G            | 7    | 5.294G            | 8    | 5.373G            |
| 9                                                | 5.669G            | 10   | 5.716G            | 11   | 5.589G            | 12   | 5.307G            |
| 13                                               | 5.429G            | 14   | 5.651G            | 15   | 5.275G            | 16   | 5.478G            |
| 17                                               | 5.720G            | 18   | 5.667G            | 19   | 5.272G            | 20   | 5.534G            |
| 21                                               | 5.629G            | 22   | 5.405G            | 23   | 5.447G            | 24   | 5.543G            |
| 25                                               | 5.495G            | 26   | 5.279G            | 27   | 5.719G            | 28   | 5.444G            |
| 29                                               | 5.578G            | 30   | 5.512G            | 31   | 5.408G            | 32   | 5.250G            |
| 33                                               | 5.263G            | 34   | 5.372G            | 35   | 5.295G            | 36   | 5.433G            |
| 37                                               | 5.445G            | 38   | 5.586G            | 39   | 5.609G            | 40   | 5.381G            |
| 41                                               | 5.661G            | 42   | 5.655G            | 43   | 5.469G            | 44   | 5.273G            |
| 45                                               | 5.497G            | 46   | 5.717G            | 47   | 5.356G            | 48   | 5.611G            |
| 49                                               | 5.422G            | 50   | 5.439G            | 51   | 5.620G            | 52   | 5.260G            |
| 53                                               | 5.350G            | 54   | 5.282G            | 55   | 5.666G            | 56   | 5.701G            |
| 57                                               | 5.575G            | 58   | 5.633G            | 59   | 5.472G            | 60   | 5.367G            |
| 61                                               | 5.454G            | 62   | 5.416G            | 63   | 5.508G            | 64   | 5.340G            |
| 65                                               | 5.718G            | 66   | 5.561G            | 67   | 5.283G            | 68   | 5.274G            |
| 69                                               | 5.514G            | 70   | 5.568G            | 71   | 5.361G            | 72   | 5.605G            |
| 73                                               | 5.715G            | 74   | 5.639G            | 75   | 5.576G            | 76   | 5.658G            |
| 77                                               | 5.379G            | 78   | 5.300G            | 79   | 5.482G            | 80   | 5.311G            |
| 81                                               | 5.265G            | 82   | 5.501G            | 83   | 5.523G            | 84   | 5.480G            |
| 85                                               | 5.479G            | 86   | 5.722G            | 87   | 5.335G            | 88   | 5.359G            |
| 89                                               | 5.413G            | 90   | 5.425G            | 91   | 5.516G            | 92   | 5.532G            |
| 93                                               | 5.407G            | 94   | 5.343G            | 95   | 5.419G            | 96   | 5.703G            |
| 97                                               | 5.711G            | 98   | 5.527G            | 99   | 5.695G            | 100  | 5.546G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.357G            | 2    | 5.382G            | 3    | 5.464G            | 4    | 5.556G            |
| 5                                                | 5.456G            | 6    | 5.458G            | 7    | 5.300G            | 8    | 5.616G            |
| 9                                                | 5.582G            | 10   | 5.499G            | 11   | 5.618G            | 12   | 5.402G            |
| 13                                               | 5.250G            | 14   | 5.684G            | 15   | 5.620G            | 16   | 5.723G            |
| 17                                               | 5.265G            | 18   | 5.379G            | 19   | 5.632G            | 20   | 5.486G            |
| 21                                               | 5.606G            | 22   | 5.496G            | 23   | 5.507G            | 24   | 5.411G            |
| 25                                               | 5.598G            | 26   | 5.435G            | 27   | 5.587G            | 28   | 5.373G            |
| 29                                               | 5.381G            | 30   | 5.344G            | 31   | 5.672G            | 32   | 5.480G            |
| 33                                               | 5.455G            | 34   | 5.296G            | 35   | 5.715G            | 36   | 5.409G            |
| 37                                               | 5.371G            | 38   | 5.539G            | 39   | 5.336G            | 40   | 5.557G            |
| 41                                               | 5.506G            | 42   | 5.254G            | 43   | 5.669G            | 44   | 5.405G            |
| 45                                               | 5.420G            | 46   | 5.714G            | 47   | 5.528G            | 48   | 5.701G            |
| 49                                               | 5.363G            | 50   | 5.626G            | 51   | 5.438G            | 52   | 5.542G            |
| 53                                               | 5.685G            | 54   | 5.568G            | 55   | 5.599G            | 56   | 5.595G            |
| 57                                               | 5.299G            | 58   | 5.580G            | 59   | 5.416G            | 60   | 5.372G            |
| 61                                               | 5.312G            | 62   | 5.629G            | 63   | 5.561G            | 64   | 5.393G            |
| 65                                               | 5.307G            | 66   | 5.313G            | 67   | 5.414G            | 68   | 5.417G            |
| 69                                               | 5.696G            | 70   | 5.719G            | 71   | 5.690G            | 72   | 5.627G            |
| 73                                               | 5.617G            | 74   | 5.636G            | 75   | 5.404G            | 76   | 5.593G            |
| 77                                               | 5.678G            | 78   | 5.399G            | 79   | 5.491G            | 80   | 5.304G            |
| 81                                               | 5.643G            | 82   | 5.608G            | 83   | 5.392G            | 84   | 5.263G            |
| 85                                               | 5.589G            | 86   | 5.466G            | 87   | 5.425G            | 88   | 5.553G            |
| 89                                               | 5.707G            | 90   | 5.453G            | 91   | 5.332G            | 92   | 5.590G            |
| 93                                               | 5.594G            | 94   | 5.272G            | 95   | 5.328G            | 96   | 5.708G            |
| 97                                               | 5.449G            | 98   | 5.298G            | 99   | 5.348G            | 100  | 5.365G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.665G            | 2    | 5.500G            | 3    | 5.273G            | 4    | 5.495G            |
| 5                                                | 5.656G            | 6    | 5.481G            | 7    | 5.396G            | 8    | 5.355G            |
| 9                                                | 5.567G            | 10   | 5.431G            | 11   | 5.337G            | 12   | 5.473G            |
| 13                                               | 5.504G            | 14   | 5.320G            | 15   | 5.520G            | 16   | 5.685G            |
| 17                                               | 5.574G            | 18   | 5.638G            | 19   | 5.477G            | 20   | 5.306G            |
| 21                                               | 5.357G            | 22   | 5.255G            | 23   | 5.679G            | 24   | 5.258G            |
| 25                                               | 5.720G            | 26   | 5.564G            | 27   | 5.523G            | 28   | 5.696G            |
| 29                                               | 5.445G            | 30   | 5.290G            | 31   | 5.503G            | 32   | 5.681G            |
| 33                                               | 5.310G            | 34   | 5.446G            | 35   | 5.385G            | 36   | 5.551G            |
| 37                                               | 5.578G            | 38   | 5.279G            | 39   | 5.457G            | 40   | 5.430G            |
| 41                                               | 5.484G            | 42   | 5.657G            | 43   | 5.558G            | 44   | 5.518G            |
| 45                                               | 5.709G            | 46   | 5.492G            | 47   | 5.552G            | 48   | 5.597G            |
| 49                                               | 5.710G            | 50   | 5.527G            | 51   | 5.605G            | 52   | 5.266G            |
| 53                                               | 5.331G            | 54   | 5.300G            | 55   | 5.704G            | 56   | 5.667G            |
| 57                                               | 5.405G            | 58   | 5.352G            | 59   | 5.723G            | 60   | 5.269G            |
| 61                                               | 5.475G            | 62   | 5.659G            | 63   | 5.347G            | 64   | 5.555G            |
| 65                                               | 5.458G            | 66   | 5.628G            | 67   | 5.722G            | 68   | 5.646G            |
| 69                                               | 5.630G            | 70   | 5.340G            | 71   | 5.448G            | 72   | 5.391G            |
| 73                                               | 5.435G            | 74   | 5.612G            | 75   | 5.272G            | 76   | 5.314G            |
| 77                                               | 5.327G            | 78   | 5.476G            | 79   | 5.386G            | 80   | 5.381G            |
| 81                                               | 5.617G            | 82   | 5.443G            | 83   | 5.345G            | 84   | 5.607G            |
| 85                                               | 5.631G            | 86   | 5.374G            | 87   | 5.260G            | 88   | 5.261G            |
| 89                                               | 5.714G            | 90   | 5.287G            | 91   | 5.680G            | 92   | 5.451G            |
| 93                                               | 5.541G            | 94   | 5.265G            | 95   | 5.294G            | 96   | 5.399G            |
| 97                                               | 5.377G            | 98   | 5.432G            | 99   | 5.307G            | 100  | 5.707G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.388G            | 2    | 5.353G            | 3    | 5.492G            | 4    | 5.545G            |
| 5                                                | 5.604G            | 6    | 5.585G            | 7    | 5.355G            | 8    | 5.720G            |
| 9                                                | 5.570G            | 10   | 5.403G            | 11   | 5.454G            | 12   | 5.258G            |
| 13                                               | 5.326G            | 14   | 5.573G            | 15   | 5.342G            | 16   | 5.562G            |
| 17                                               | 5.327G            | 18   | 5.348G            | 19   | 5.634G            | 20   | 5.499G            |
| 21                                               | 5.537G            | 22   | 5.451G            | 23   | 5.554G            | 24   | 5.260G            |
| 25                                               | 5.672G            | 26   | 5.627G            | 27   | 5.300G            | 28   | 5.712G            |
| 29                                               | 5.268G            | 30   | 5.603G            | 31   | 5.558G            | 32   | 5.387G            |
| 33                                               | 5.669G            | 34   | 5.619G            | 35   | 5.701G            | 36   | 5.504G            |
| 37                                               | 5.675G            | 38   | 5.709G            | 39   | 5.394G            | 40   | 5.589G            |
| 41                                               | 5.312G            | 42   | 5.459G            | 43   | 5.686G            | 44   | 5.599G            |
| 45                                               | 5.722G            | 46   | 5.445G            | 47   | 5.255G            | 48   | 5.270G            |
| 49                                               | 5.616G            | 50   | 5.567G            | 51   | 5.252G            | 52   | 5.430G            |
| 53                                               | 5.421G            | 54   | 5.310G            | 55   | 5.593G            | 56   | 5.569G            |
| 57                                               | 5.291G            | 58   | 5.611G            | 59   | 5.439G            | 60   | 5.356G            |
| 61                                               | 5.704G            | 62   | 5.538G            | 63   | 5.346G            | 64   | 5.607G            |
| 65                                               | 5.267G            | 66   | 5.295G            | 67   | 5.651G            | 68   | 5.527G            |
| 69                                               | 5.621G            | 70   | 5.311G            | 71   | 5.695G            | 72   | 5.697G            |
| 73                                               | 5.413G            | 74   | 5.693G            | 75   | 5.340G            | 76   | 5.673G            |
| 77                                               | 5.516G            | 78   | 5.321G            | 79   | 5.706G            | 80   | 5.333G            |
| 81                                               | 5.638G            | 82   | 5.301G            | 83   | 5.515G            | 84   | 5.389G            |
| 85                                               | 5.602G            | 86   | 5.698G            | 87   | 5.415G            | 88   | 5.369G            |
| 89                                               | 5.436G            | 90   | 5.711G            | 91   | 5.262G            | 92   | 5.650G            |
| 93                                               | 5.450G            | 94   | 5.419G            | 95   | 5.580G            | 96   | 5.282G            |
| 97                                               | 5.305G            | 98   | 5.618G            | 99   | 5.399G            | 100  | 5.581G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.501G            | 2    | 5.702G            | 3    | 5.543G            | 4    | 5.629G            |
| 5                                                | 5.576G            | 6    | 5.687G            | 7    | 5.402G            | 8    | 5.504G            |
| 9                                                | 5.487G            | 10   | 5.293G            | 11   | 5.266G            | 12   | 5.562G            |
| 13                                               | 5.276G            | 14   | 5.282G            | 15   | 5.531G            | 16   | 5.535G            |
| 17                                               | 5.649G            | 18   | 5.361G            | 19   | 5.430G            | 20   | 5.529G            |
| 21                                               | 5.485G            | 22   | 5.523G            | 23   | 5.723G            | 24   | 5.471G            |
| 25                                               | 5.719G            | 26   | 5.253G            | 27   | 5.257G            | 28   | 5.414G            |
| 29                                               | 5.601G            | 30   | 5.621G            | 31   | 5.579G            | 32   | 5.600G            |
| 33                                               | 5.708G            | 34   | 5.469G            | 35   | 5.566G            | 36   | 5.552G            |
| 37                                               | 5.653G            | 38   | 5.612G            | 39   | 5.306G            | 40   | 5.557G            |
| 41                                               | 5.550G            | 42   | 5.321G            | 43   | 5.682G            | 44   | 5.415G            |
| 45                                               | 5.305G            | 46   | 5.505G            | 47   | 5.701G            | 48   | 5.433G            |
| 49                                               | 5.657G            | 50   | 5.404G            | 51   | 5.551G            | 52   | 5.545G            |
| 53                                               | 5.264G            | 54   | 5.339G            | 55   | 5.685G            | 56   | 5.442G            |
| 57                                               | 5.399G            | 58   | 5.636G            | 59   | 5.556G            | 60   | 5.525G            |
| 61                                               | 5.381G            | 62   | 5.666G            | 63   | 5.420G            | 64   | 5.389G            |
| 65                                               | 5.628G            | 66   | 5.397G            | 67   | 5.617G            | 68   | 5.400G            |
| 69                                               | 5.313G            | 70   | 5.391G            | 71   | 5.440G            | 72   | 5.615G            |
| 73                                               | 5.474G            | 74   | 5.307G            | 75   | 5.463G            | 76   | 5.611G            |
| 77                                               | 5.398G            | 78   | 5.340G            | 79   | 5.534G            | 80   | 5.330G            |
| 81                                               | 5.546G            | 82   | 5.284G            | 83   | 5.537G            | 84   | 5.625G            |
| 85                                               | 5.296G            | 86   | 5.259G            | 87   | 5.299G            | 88   | 5.401G            |
| 89                                               | 5.382G            | 90   | 5.547G            | 91   | 5.492G            | 92   | 5.518G            |
| 93                                               | 5.443G            | 94   | 5.376G            | 95   | 5.457G            | 96   | 5.473G            |
| 97                                               | 5.470G            | 98   | 5.539G            | 99   | 5.603G            | 100  | 5.290G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.471G            | 2    | 5.572G            | 3    | 5.333G            | 4    | 5.307G            |
| 5                                                | 5.392G            | 6    | 5.555G            | 7    | 5.469G            | 8    | 5.531G            |
| 9                                                | 5.523G            | 10   | 5.339G            | 11   | 5.686G            | 12   | 5.538G            |
| 13                                               | 5.512G            | 14   | 5.520G            | 15   | 5.713G            | 16   | 5.621G            |
| 17                                               | 5.660G            | 18   | 5.434G            | 19   | 5.613G            | 20   | 5.430G            |
| 21                                               | 5.387G            | 22   | 5.589G            | 23   | 5.273G            | 24   | 5.385G            |
| 25                                               | 5.299G            | 26   | 5.619G            | 27   | 5.458G            | 28   | 5.563G            |
| 29                                               | 5.679G            | 30   | 5.446G            | 31   | 5.399G            | 32   | 5.321G            |
| 33                                               | 5.297G            | 34   | 5.647G            | 35   | 5.432G            | 36   | 5.668G            |
| 37                                               | 5.271G            | 38   | 5.503G            | 39   | 5.353G            | 40   | 5.290G            |
| 41                                               | 5.376G            | 42   | 5.326G            | 43   | 5.500G            | 44   | 5.675G            |
| 45                                               | 5.316G            | 46   | 5.580G            | 47   | 5.501G            | 48   | 5.677G            |
| 49                                               | 5.554G            | 50   | 5.415G            | 51   | 5.709G            | 52   | 5.498G            |
| 53                                               | 5.528G            | 54   | 5.288G            | 55   | 5.449G            | 56   | 5.630G            |
| 57                                               | 5.417G            | 58   | 5.536G            | 59   | 5.255G            | 60   | 5.639G            |
| 61                                               | 5.669G            | 62   | 5.482G            | 63   | 5.324G            | 64   | 5.591G            |
| 65                                               | 5.452G            | 66   | 5.502G            | 67   | 5.567G            | 68   | 5.542G            |
| 69                                               | 5.251G            | 70   | 5.718G            | 71   | 5.436G            | 72   | 5.695G            |
| 73                                               | 5.348G            | 74   | 5.525G            | 75   | 5.358G            | 76   | 5.466G            |
| 77                                               | 5.470G            | 78   | 5.712G            | 79   | 5.314G            | 80   | 5.394G            |
| 81                                               | 5.263G            | 82   | 5.391G            | 83   | 5.625G            | 84   | 5.483G            |
| 85                                               | 5.666G            | 86   | 5.537G            | 87   | 5.517G            | 88   | 5.653G            |
| 89                                               | 5.429G            | 90   | 5.305G            | 91   | 5.607G            | 92   | 5.298G            |
| 93                                               | 5.284G            | 94   | 5.687G            | 95   | 5.426G            | 96   | 5.623G            |
| 97                                               | 5.453G            | 98   | 5.388G            | 99   | 5.673G            | 100  | 5.608G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.673G            | 2    | 5.401G            | 3    | 5.697G            | 4    | 5.716G            |
| 5                                                | 5.619G            | 6    | 5.251G            | 7    | 5.708G            | 8    | 5.499G            |
| 9                                                | 5.294G            | 10   | 5.565G            | 11   | 5.300G            | 12   | 5.593G            |
| 13                                               | 5.567G            | 14   | 5.549G            | 15   | 5.581G            | 16   | 5.598G            |
| 17                                               | 5.364G            | 18   | 5.571G            | 19   | 5.720G            | 20   | 5.589G            |
| 21                                               | 5.486G            | 22   | 5.534G            | 23   | 5.301G            | 24   | 5.569G            |
| 25                                               | 5.487G            | 26   | 5.652G            | 27   | 5.703G            | 28   | 5.586G            |
| 29                                               | 5.426G            | 30   | 5.509G            | 31   | 5.514G            | 32   | 5.525G            |
| 33                                               | 5.590G            | 34   | 5.453G            | 35   | 5.513G            | 36   | 5.685G            |
| 37                                               | 5.398G            | 38   | 5.602G            | 39   | 5.632G            | 40   | 5.377G            |
| 41                                               | 5.459G            | 42   | 5.664G            | 43   | 5.686G            | 44   | 5.408G            |
| 45                                               | 5.292G            | 46   | 5.307G            | 47   | 5.706G            | 48   | 5.387G            |
| 49                                               | 5.696G            | 50   | 5.298G            | 51   | 5.717G            | 52   | 5.721G            |
| 53                                               | 5.478G            | 54   | 5.381G            | 55   | 5.563G            | 56   | 5.468G            |
| 57                                               | 5.416G            | 58   | 5.325G            | 59   | 5.382G            | 60   | 5.680G            |
| 61                                               | 5.670G            | 62   | 5.681G            | 63   | 5.545G            | 64   | 5.316G            |
| 65                                               | 5.639G            | 66   | 5.614G            | 67   | 5.512G            | 68   | 5.419G            |
| 69                                               | 5.272G            | 70   | 5.302G            | 71   | 5.331G            | 72   | 5.659G            |
| 73                                               | 5.679G            | 74   | 5.526G            | 75   | 5.592G            | 76   | 5.576G            |
| 77                                               | 5.719G            | 78   | 5.397G            | 79   | 5.653G            | 80   | 5.551G            |
| 81                                               | 5.395G            | 82   | 5.353G            | 83   | 5.498G            | 84   | 5.405G            |
| 85                                               | 5.692G            | 86   | 5.374G            | 87   | 5.368G            | 88   | 5.434G            |
| 89                                               | 5.492G            | 90   | 5.271G            | 91   | 5.601G            | 92   | 5.273G            |
| 93                                               | 5.475G            | 94   | 5.322G            | 95   | 5.612G            | 96   | 5.350G            |
| 97                                               | 5.362G            | 98   | 5.517G            | 99   | 5.683G            | 100  | 5.712G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.263G            | 2    | 5.355G            | 3    | 5.702G            | 4    | 5.382G            |
| 5                                                | 5.577G            | 6    | 5.648G            | 7    | 5.265G            | 8    | 5.516G            |
| 9                                                | 5.491G            | 10   | 5.566G            | 11   | 5.692G            | 12   | 5.363G            |
| 13                                               | 5.319G            | 14   | 5.469G            | 15   | 5.448G            | 16   | 5.507G            |
| 17                                               | 5.414G            | 18   | 5.708G            | 19   | 5.348G            | 20   | 5.644G            |
| 21                                               | 5.620G            | 22   | 5.449G            | 23   | 5.314G            | 24   | 5.674G            |
| 25                                               | 5.597G            | 26   | 5.723G            | 27   | 5.389G            | 28   | 5.509G            |
| 29                                               | 5.353G            | 30   | 5.317G            | 31   | 5.675G            | 32   | 5.392G            |
| 33                                               | 5.574G            | 34   | 5.568G            | 35   | 5.352G            | 36   | 5.659G            |
| 37                                               | 5.250G            | 38   | 5.408G            | 39   | 5.704G            | 40   | 5.681G            |
| 41                                               | 5.256G            | 42   | 5.388G            | 43   | 5.718G            | 44   | 5.466G            |
| 45                                               | 5.661G            | 46   | 5.270G            | 47   | 5.432G            | 48   | 5.683G            |
| 49                                               | 5.299G            | 50   | 5.627G            | 51   | 5.506G            | 52   | 5.343G            |
| 53                                               | 5.486G            | 54   | 5.366G            | 55   | 5.385G            | 56   | 5.406G            |
| 57                                               | 5.713G            | 58   | 5.709G            | 59   | 5.641G            | 60   | 5.714G            |
| 61                                               | 5.647G            | 62   | 5.460G            | 63   | 5.360G            | 64   | 5.544G            |
| 65                                               | 5.259G            | 66   | 5.722G            | 67   | 5.273G            | 68   | 5.457G            |
| 69                                               | 5.344G            | 70   | 5.303G            | 71   | 5.576G            | 72   | 5.498G            |
| 73                                               | 5.422G            | 74   | 5.439G            | 75   | 5.587G            | 76   | 5.454G            |
| 77                                               | 5.435G            | 78   | 5.676G            | 79   | 5.415G            | 80   | 5.285G            |
| 81                                               | 5.578G            | 82   | 5.545G            | 83   | 5.412G            | 84   | 5.624G            |
| 85                                               | 5.417G            | 86   | 5.530G            | 87   | 5.667G            | 88   | 5.338G            |
| 89                                               | 5.612G            | 90   | 5.266G            | 91   | 5.337G            | 92   | 5.476G            |
| 93                                               | 5.588G            | 94   | 5.690G            | 95   | 5.345G            | 96   | 5.482G            |
| 97                                               | 5.444G            | 98   | 5.295G            | 99   | 5.419G            | 100  | 5.426G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.302G            | 2    | 5.691G            | 3    | 5.421G            | 4    | 5.695G            |
| 5                                                | 5.673G            | 6    | 5.539G            | 7    | 5.484G            | 8    | 5.367G            |
| 9                                                | 5.665G            | 10   | 5.344G            | 11   | 5.590G            | 12   | 5.321G            |
| 13                                               | 5.305G            | 14   | 5.292G            | 15   | 5.576G            | 16   | 5.718G            |
| 17                                               | 5.328G            | 18   | 5.573G            | 19   | 5.361G            | 20   | 5.331G            |
| 21                                               | 5.708G            | 22   | 5.516G            | 23   | 5.338G            | 24   | 5.629G            |
| 25                                               | 5.680G            | 26   | 5.415G            | 27   | 5.351G            | 28   | 5.264G            |
| 29                                               | 5.528G            | 30   | 5.488G            | 31   | 5.561G            | 32   | 5.541G            |
| 33                                               | 5.563G            | 34   | 5.723G            | 35   | 5.411G            | 36   | 5.591G            |
| 37                                               | 5.621G            | 38   | 5.668G            | 39   | 5.659G            | 40   | 5.623G            |
| 41                                               | 5.323G            | 42   | 5.373G            | 43   | 5.630G            | 44   | 5.538G            |
| 45                                               | 5.717G            | 46   | 5.453G            | 47   | 5.451G            | 48   | 5.520G            |
| 49                                               | 5.505G            | 50   | 5.575G            | 51   | 5.641G            | 52   | 5.554G            |
| 53                                               | 5.587G            | 54   | 5.669G            | 55   | 5.314G            | 56   | 5.420G            |
| 57                                               | 5.645G            | 58   | 5.459G            | 59   | 5.664G            | 60   | 5.329G            |
| 61                                               | 5.567G            | 62   | 5.464G            | 63   | 5.359G            | 64   | 5.706G            |
| 65                                               | 5.596G            | 66   | 5.434G            | 67   | 5.482G            | 68   | 5.313G            |
| 69                                               | 5.676G            | 70   | 5.529G            | 71   | 5.369G            | 72   | 5.504G            |
| 73                                               | 5.388G            | 74   | 5.315G            | 75   | 5.435G            | 76   | 5.483G            |
| 77                                               | 5.282G            | 78   | 5.704G            | 79   | 5.337G            | 80   | 5.307G            |
| 81                                               | 5.465G            | 82   | 5.412G            | 83   | 5.477G            | 84   | 5.372G            |
| 85                                               | 5.447G            | 86   | 5.322G            | 87   | 5.617G            | 88   | 5.707G            |
| 89                                               | 5.506G            | 90   | 5.310G            | 91   | 5.517G            | 92   | 5.527G            |
| 93                                               | 5.526G            | 94   | 5.425G            | 95   | 5.709G            | 96   | 5.386G            |
| 97                                               | 5.540G            | 98   | 5.259G            | 99   | 5.558G            | 100  | 5.345G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.654G            | 2    | 5.398G            | 3    | 5.470G            | 4    | 5.660G            |
| 5                                                | 5.519G            | 6    | 5.321G            | 7    | 5.527G            | 8    | 5.513G            |
| 9                                                | 5.293G            | 10   | 5.600G            | 11   | 5.440G            | 12   | 5.302G            |
| 13                                               | 5.363G            | 14   | 5.491G            | 15   | 5.637G            | 16   | 5.450G            |
| 17                                               | 5.457G            | 18   | 5.683G            | 19   | 5.390G            | 20   | 5.535G            |
| 21                                               | 5.388G            | 22   | 5.546G            | 23   | 5.472G            | 24   | 5.534G            |
| 25                                               | 5.386G            | 26   | 5.595G            | 27   | 5.543G            | 28   | 5.394G            |
| 29                                               | 5.471G            | 30   | 5.320G            | 31   | 5.634G            | 32   | 5.458G            |
| 33                                               | 5.719G            | 34   | 5.566G            | 35   | 5.407G            | 36   | 5.677G            |
| 37                                               | 5.565G            | 38   | 5.524G            | 39   | 5.716G            | 40   | 5.681G            |
| 41                                               | 5.718G            | 42   | 5.486G            | 43   | 5.496G            | 44   | 5.709G            |
| 45                                               | 5.481G            | 46   | 5.482G            | 47   | 5.655G            | 48   | 5.572G            |
| 49                                               | 5.377G            | 50   | 5.704G            | 51   | 5.373G            | 52   | 5.528G            |
| 53                                               | 5.706G            | 54   | 5.666G            | 55   | 5.622G            | 56   | 5.614G            |
| 57                                               | 5.627G            | 58   | 5.349G            | 59   | 5.515G            | 60   | 5.422G            |
| 61                                               | 5.501G            | 62   | 5.617G            | 63   | 5.253G            | 64   | 5.281G            |
| 65                                               | 5.287G            | 66   | 5.526G            | 67   | 5.542G            | 68   | 5.673G            |
| 69                                               | 5.261G            | 70   | 5.498G            | 71   | 5.435G            | 72   | 5.480G            |
| 73                                               | 5.705G            | 74   | 5.668G            | 75   | 5.618G            | 76   | 5.536G            |
| 77                                               | 5.484G            | 78   | 5.529G            | 79   | 5.343G            | 80   | 5.374G            |
| 81                                               | 5.339G            | 82   | 5.552G            | 83   | 5.478G            | 84   | 5.475G            |
| 85                                               | 5.446G            | 86   | 5.329G            | 87   | 5.620G            | 88   | 5.447G            |
| 89                                               | 5.341G            | 90   | 5.304G            | 91   | 5.588G            | 92   | 5.591G            |
| 93                                               | 5.477G            | 94   | 5.664G            | 95   | 5.334G            | 96   | 5.357G            |
| 97                                               | 5.667G            | 98   | 5.579G            | 99   | 5.506G            | 100  | 5.412G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.675G            | 2    | 5.480G            | 3    | 5.267G            | 4    | 5.630G            |
| 5                                                | 5.596G            | 6    | 5.633G            | 7    | 5.253G            | 8    | 5.317G            |
| 9                                                | 5.273G            | 10   | 5.362G            | 11   | 5.522G            | 12   | 5.594G            |
| 13                                               | 5.642G            | 14   | 5.547G            | 15   | 5.503G            | 16   | 5.672G            |
| 17                                               | 5.449G            | 18   | 5.316G            | 19   | 5.569G            | 20   | 5.555G            |
| 21                                               | 5.498G            | 22   | 5.710G            | 23   | 5.722G            | 24   | 5.682G            |
| 25                                               | 5.308G            | 26   | 5.598G            | 27   | 5.276G            | 28   | 5.495G            |
| 29                                               | 5.493G            | 30   | 5.593G            | 31   | 5.643G            | 32   | 5.377G            |
| 33                                               | 5.670G            | 34   | 5.294G            | 35   | 5.369G            | 36   | 5.714G            |
| 37                                               | 5.516G            | 38   | 5.648G            | 39   | 5.357G            | 40   | 5.621G            |
| 41                                               | 5.264G            | 42   | 5.261G            | 43   | 5.504G            | 44   | 5.392G            |
| 45                                               | 5.295G            | 46   | 5.334G            | 47   | 5.439G            | 48   | 5.305G            |
| 49                                               | 5.581G            | 50   | 5.624G            | 51   | 5.272G            | 52   | 5.297G            |
| 53                                               | 5.488G            | 54   | 5.629G            | 55   | 5.304G            | 56   | 5.368G            |
| 57                                               | 5.391G            | 58   | 5.379G            | 59   | 5.274G            | 60   | 5.263G            |
| 61                                               | 5.687G            | 62   | 5.285G            | 63   | 5.639G            | 64   | 5.347G            |
| 65                                               | 5.640G            | 66   | 5.579G            | 67   | 5.278G            | 68   | 5.705G            |
| 69                                               | 5.491G            | 70   | 5.250G            | 71   | 5.592G            | 72   | 5.344G            |
| 73                                               | 5.560G            | 74   | 5.321G            | 75   | 5.646G            | 76   | 5.563G            |
| 77                                               | 5.339G            | 78   | 5.453G            | 79   | 5.677G            | 80   | 5.507G            |
| 81                                               | 5.605G            | 82   | 5.617G            | 83   | 5.389G            | 84   | 5.462G            |
| 85                                               | 5.378G            | 86   | 5.390G            | 87   | 5.583G            | 88   | 5.469G            |
| 89                                               | 5.338G            | 90   | 5.568G            | 91   | 5.448G            | 92   | 5.329G            |
| 93                                               | 5.388G            | 94   | 5.380G            | 95   | 5.564G            | 96   | 5.418G            |
| 97                                               | 5.668G            | 98   | 5.303G            | 99   | 5.693G            | 100  | 5.404G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.553G            | 2    | 5.630G            | 3    | 5.296G            | 4    | 5.685G            |
| 5                                                | 5.719G            | 6    | 5.441G            | 7    | 5.582G            | 8    | 5.386G            |
| 9                                                | 5.563G            | 10   | 5.689G            | 11   | 5.663G            | 12   | 5.610G            |
| 13                                               | 5.456G            | 14   | 5.352G            | 15   | 5.524G            | 16   | 5.586G            |
| 17                                               | 5.435G            | 18   | 5.270G            | 19   | 5.353G            | 20   | 5.534G            |
| 21                                               | 5.575G            | 22   | 5.470G            | 23   | 5.465G            | 24   | 5.671G            |
| 25                                               | 5.278G            | 26   | 5.604G            | 27   | 5.406G            | 28   | 5.475G            |
| 29                                               | 5.652G            | 30   | 5.550G            | 31   | 5.381G            | 32   | 5.443G            |
| 33                                               | 5.531G            | 34   | 5.307G            | 35   | 5.411G            | 36   | 5.634G            |
| 37                                               | 5.412G            | 38   | 5.568G            | 39   | 5.709G            | 40   | 5.626G            |
| 41                                               | 5.339G            | 42   | 5.621G            | 43   | 5.469G            | 44   | 5.327G            |
| 45                                               | 5.560G            | 46   | 5.501G            | 47   | 5.362G            | 48   | 5.314G            |
| 49                                               | 5.640G            | 50   | 5.667G            | 51   | 5.650G            | 52   | 5.710G            |
| 53                                               | 5.287G            | 54   | 5.544G            | 55   | 5.500G            | 56   | 5.617G            |
| 57                                               | 5.419G            | 58   | 5.334G            | 59   | 5.683G            | 60   | 5.533G            |
| 61                                               | 5.678G            | 62   | 5.447G            | 63   | 5.497G            | 64   | 5.715G            |
| 65                                               | 5.397G            | 66   | 5.356G            | 67   | 5.450G            | 68   | 5.658G            |
| 69                                               | 5.257G            | 70   | 5.618G            | 71   | 5.635G            | 72   | 5.696G            |
| 73                                               | 5.448G            | 74   | 5.371G            | 75   | 5.514G            | 76   | 5.579G            |
| 77                                               | 5.496G            | 78   | 5.439G            | 79   | 5.330G            | 80   | 5.250G            |
| 81                                               | 5.698G            | 82   | 5.482G            | 83   | 5.651G            | 84   | 5.564G            |
| 85                                               | 5.429G            | 86   | 5.494G            | 87   | 5.616G            | 88   | 5.676G            |
| 89                                               | 5.251G            | 90   | 5.253G            | 91   | 5.272G            | 92   | 5.644G            |
| 93                                               | 5.393G            | 94   | 5.628G            | 95   | 5.313G            | 96   | 5.665G            |
| 97                                               | 5.446G            | 98   | 5.624G            | 99   | 5.389G            | 100  | 5.484G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.580G            | 2    | 5.447G            | 3    | 5.392G            | 4    | 5.691G            |
| 5                                                | 5.576G            | 6    | 5.444G            | 7    | 5.397G            | 8    | 5.477G            |
| 9                                                | 5.296G            | 10   | 5.288G            | 11   | 5.323G            | 12   | 5.608G            |
| 13                                               | 5.325G            | 14   | 5.313G            | 15   | 5.307G            | 16   | 5.350G            |
| 17                                               | 5.345G            | 18   | 5.396G            | 19   | 5.367G            | 20   | 5.648G            |
| 21                                               | 5.717G            | 22   | 5.577G            | 23   | 5.373G            | 24   | 5.401G            |
| 25                                               | 5.537G            | 26   | 5.438G            | 27   | 5.375G            | 28   | 5.689G            |
| 29                                               | 5.501G            | 30   | 5.498G            | 31   | 5.380G            | 32   | 5.439G            |
| 33                                               | 5.340G            | 34   | 5.645G            | 35   | 5.348G            | 36   | 5.636G            |
| 37                                               | 5.533G            | 38   | 5.437G            | 39   | 5.329G            | 40   | 5.291G            |
| 41                                               | 5.363G            | 42   | 5.278G            | 43   | 5.298G            | 44   | 5.255G            |
| 45                                               | 5.667G            | 46   | 5.379G            | 47   | 5.626G            | 48   | 5.354G            |
| 49                                               | 5.374G            | 50   | 5.364G            | 51   | 5.299G            | 52   | 5.552G            |
| 53                                               | 5.609G            | 54   | 5.459G            | 55   | 5.508G            | 56   | 5.516G            |
| 57                                               | 5.641G            | 58   | 5.446G            | 59   | 5.661G            | 60   | 5.700G            |
| 61                                               | 5.633G            | 62   | 5.346G            | 63   | 5.337G            | 64   | 5.642G            |
| 65                                               | 5.388G            | 66   | 5.265G            | 67   | 5.586G            | 68   | 5.435G            |
| 69                                               | 5.318G            | 70   | 5.674G            | 71   | 5.623G            | 72   | 5.594G            |
| 73                                               | 5.272G            | 74   | 5.680G            | 75   | 5.565G            | 76   | 5.721G            |
| 77                                               | 5.341G            | 78   | 5.338G            | 79   | 5.562G            | 80   | 5.409G            |
| 81                                               | 5.614G            | 82   | 5.369G            | 83   | 5.475G            | 84   | 5.544G            |
| 85                                               | 5.649G            | 86   | 5.411G            | 87   | 5.327G            | 88   | 5.651G            |
| 89                                               | 5.500G            | 90   | 5.520G            | 91   | 5.257G            | 92   | 5.551G            |
| 93                                               | 5.583G            | 94   | 5.424G            | 95   | 5.541G            | 96   | 5.723G            |
| 97                                               | 5.601G            | 98   | 5.322G            | 99   | 5.620G            | 100  | 5.557G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.634G            | 2    | 5.567G            | 3    | 5.338G            | 4    | 5.557G            |
| 5                                                | 5.457G            | 6    | 5.390G            | 7    | 5.337G            | 8    | 5.443G            |
| 9                                                | 5.667G            | 10   | 5.418G            | 11   | 5.452G            | 12   | 5.349G            |
| 13                                               | 5.485G            | 14   | 5.437G            | 15   | 5.287G            | 16   | 5.377G            |
| 17                                               | 5.324G            | 18   | 5.583G            | 19   | 5.306G            | 20   | 5.578G            |
| 21                                               | 5.712G            | 22   | 5.684G            | 23   | 5.588G            | 24   | 5.343G            |
| 25                                               | 5.267G            | 26   | 5.657G            | 27   | 5.651G            | 28   | 5.496G            |
| 29                                               | 5.478G            | 30   | 5.671G            | 31   | 5.367G            | 32   | 5.462G            |
| 33                                               | 5.609G            | 34   | 5.624G            | 35   | 5.255G            | 36   | 5.332G            |
| 37                                               | 5.399G            | 38   | 5.703G            | 39   | 5.385G            | 40   | 5.545G            |
| 41                                               | 5.436G            | 42   | 5.266G            | 43   | 5.469G            | 44   | 5.560G            |
| 45                                               | 5.273G            | 46   | 5.431G            | 47   | 5.401G            | 48   | 5.600G            |
| 49                                               | 5.364G            | 50   | 5.687G            | 51   | 5.561G            | 52   | 5.625G            |
| 53                                               | 5.284G            | 54   | 5.468G            | 55   | 5.422G            | 56   | 5.376G            |
| 57                                               | 5.497G            | 58   | 5.615G            | 59   | 5.659G            | 60   | 5.523G            |
| 61                                               | 5.341G            | 62   | 5.455G            | 63   | 5.409G            | 64   | 5.479G            |
| 65                                               | 5.481G            | 66   | 5.498G            | 67   | 5.280G            | 68   | 5.704G            |
| 69                                               | 5.713G            | 70   | 5.470G            | 71   | 5.366G            | 72   | 5.356G            |
| 73                                               | 5.416G            | 74   | 5.607G            | 75   | 5.256G            | 76   | 5.454G            |
| 77                                               | 5.275G            | 78   | 5.420G            | 79   | 5.421G            | 80   | 5.627G            |
| 81                                               | 5.714G            | 82   | 5.542G            | 83   | 5.281G            | 84   | 5.289G            |
| 85                                               | 5.359G            | 86   | 5.311G            | 87   | 5.573G            | 88   | 5.645G            |
| 89                                               | 5.623G            | 90   | 5.690G            | 91   | 5.296G            | 92   | 5.465G            |
| 93                                               | 5.373G            | 94   | 5.509G            | 95   | 5.369G            | 96   | 5.282G            |
| 97                                               | 5.372G            | 98   | 5.348G            | 99   | 5.547G            | 100  | 5.681G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.301G            | 2    | 5.473G            | 3    | 5.670G            | 4    | 5.364G            |
| 5                                                | 5.667G            | 6    | 5.471G            | 7    | 5.477G            | 8    | 5.508G            |
| 9                                                | 5.556G            | 10   | 5.320G            | 11   | 5.359G            | 12   | 5.558G            |
| 13                                               | 5.314G            | 14   | 5.581G            | 15   | 5.624G            | 16   | 5.656G            |
| 17                                               | 5.446G            | 18   | 5.502G            | 19   | 5.303G            | 20   | 5.361G            |
| 21                                               | 5.655G            | 22   | 5.485G            | 23   | 5.531G            | 24   | 5.406G            |
| 25                                               | 5.719G            | 26   | 5.565G            | 27   | 5.421G            | 28   | 5.657G            |
| 29                                               | 5.677G            | 30   | 5.307G            | 31   | 5.313G            | 32   | 5.537G            |
| 33                                               | 5.648G            | 34   | 5.542G            | 35   | 5.724G            | 36   | 5.689G            |
| 37                                               | 5.264G            | 38   | 5.611G            | 39   | 5.343G            | 40   | 5.405G            |
| 41                                               | 5.649G            | 42   | 5.414G            | 43   | 5.682G            | 44   | 5.325G            |
| 45                                               | 5.341G            | 46   | 5.296G            | 47   | 5.390G            | 48   | 5.614G            |
| 49                                               | 5.260G            | 50   | 5.567G            | 51   | 5.294G            | 52   | 5.444G            |
| 53                                               | 5.384G            | 54   | 5.275G            | 55   | 5.606G            | 56   | 5.460G            |
| 57                                               | 5.457G            | 58   | 5.373G            | 59   | 5.277G            | 60   | 5.713G            |
| 61                                               | 5.284G            | 62   | 5.602G            | 63   | 5.413G            | 64   | 5.478G            |
| 65                                               | 5.647G            | 66   | 5.544G            | 67   | 5.660G            | 68   | 5.626G            |
| 69                                               | 5.609G            | 70   | 5.439G            | 71   | 5.548G            | 72   | 5.358G            |
| 73                                               | 5.585G            | 74   | 5.643G            | 75   | 5.319G            | 76   | 5.597G            |
| 77                                               | 5.526G            | 78   | 5.554G            | 79   | 5.372G            | 80   | 5.493G            |
| 81                                               | 5.271G            | 82   | 5.340G            | 83   | 5.286G            | 84   | 5.506G            |
| 85                                               | 5.367G            | 86   | 5.662G            | 87   | 5.678G            | 88   | 5.467G            |
| 89                                               | 5.309G            | 90   | 5.424G            | 91   | 5.536G            | 92   | 5.632G            |
| 93                                               | 5.703G            | 94   | 5.386G            | 95   | 5.651G            | 96   | 5.570G            |
| 97                                               | 5.716G            | 98   | 5.253G            | 99   | 5.644G            | 100  | 5.491G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.291G            | 2    | 5.604G            | 3    | 5.711G            | 4    | 5.721G            |
| 5                                                | 5.310G            | 6    | 5.283G            | 7    | 5.413G            | 8    | 5.623G            |
| 9                                                | 5.595G            | 10   | 5.570G            | 11   | 5.603G            | 12   | 5.338G            |
| 13                                               | 5.416G            | 14   | 5.439G            | 15   | 5.432G            | 16   | 5.523G            |
| 17                                               | 5.428G            | 18   | 5.468G            | 19   | 5.334G            | 20   | 5.656G            |
| 21                                               | 5.387G            | 22   | 5.611G            | 23   | 5.608G            | 24   | 5.385G            |
| 25                                               | 5.687G            | 26   | 5.363G            | 27   | 5.622G            | 28   | 5.682G            |
| 29                                               | 5.503G            | 30   | 5.696G            | 31   | 5.565G            | 32   | 5.336G            |
| 33                                               | 5.449G            | 34   | 5.321G            | 35   | 5.396G            | 36   | 5.300G            |
| 37                                               | 5.620G            | 38   | 5.599G            | 39   | 5.456G            | 40   | 5.673G            |
| 41                                               | 5.712G            | 42   | 5.315G            | 43   | 5.355G            | 44   | 5.613G            |
| 45                                               | 5.636G            | 46   | 5.590G            | 47   | 5.312G            | 48   | 5.557G            |
| 49                                               | 5.305G            | 50   | 5.380G            | 51   | 5.605G            | 52   | 5.384G            |
| 53                                               | 5.463G            | 54   | 5.400G            | 55   | 5.451G            | 56   | 5.643G            |
| 57                                               | 5.264G            | 58   | 5.724G            | 59   | 5.415G            | 60   | 5.640G            |
| 61                                               | 5.316G            | 62   | 5.579G            | 63   | 5.267G            | 64   | 5.375G            |
| 65                                               | 5.671G            | 66   | 5.547G            | 67   | 5.391G            | 68   | 5.318G            |
| 69                                               | 5.619G            | 70   | 5.537G            | 71   | 5.342G            | 72   | 5.271G            |
| 73                                               | 5.661G            | 74   | 5.542G            | 75   | 5.669G            | 76   | 5.710G            |
| 77                                               | 5.574G            | 78   | 5.586G            | 79   | 5.524G            | 80   | 5.378G            |
| 81                                               | 5.659G            | 82   | 5.423G            | 83   | 5.644G            | 84   | 5.258G            |
| 85                                               | 5.268G            | 86   | 5.377G            | 87   | 5.462G            | 88   | 5.529G            |
| 89                                               | 5.577G            | 90   | 5.684G            | 91   | 5.628G            | 92   | 5.648G            |
| 93                                               | 5.703G            | 94   | 5.543G            | 95   | 5.641G            | 96   | 5.531G            |
| 97                                               | 5.361G            | 98   | 5.365G            | 99   | 5.297G            | 100  | 5.362G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.521G            | 2    | 5.365G            | 3    | 5.664G            | 4    | 5.548G            |
| 5                                                | 5.281G            | 6    | 5.534G            | 7    | 5.546G            | 8    | 5.276G            |
| 9                                                | 5.275G            | 10   | 5.292G            | 11   | 5.301G            | 12   | 5.597G            |
| 13                                               | 5.316G            | 14   | 5.595G            | 15   | 5.667G            | 16   | 5.641G            |
| 17                                               | 5.589G            | 18   | 5.269G            | 19   | 5.619G            | 20   | 5.611G            |
| 21                                               | 5.399G            | 22   | 5.274G            | 23   | 5.508G            | 24   | 5.333G            |
| 25                                               | 5.307G            | 26   | 5.605G            | 27   | 5.699G            | 28   | 5.604G            |
| 29                                               | 5.474G            | 30   | 5.435G            | 31   | 5.551G            | 32   | 5.693G            |
| 33                                               | 5.253G            | 34   | 5.700G            | 35   | 5.347G            | 36   | 5.405G            |
| 37                                               | 5.425G            | 38   | 5.309G            | 39   | 5.496G            | 40   | 5.343G            |
| 41                                               | 5.422G            | 42   | 5.341G            | 43   | 5.498G            | 44   | 5.433G            |
| 45                                               | 5.408G            | 46   | 5.633G            | 47   | 5.362G            | 48   | 5.639G            |
| 49                                               | 5.663G            | 50   | 5.550G            | 51   | 5.610G            | 52   | 5.487G            |
| 53                                               | 5.381G            | 54   | 5.349G            | 55   | 5.598G            | 56   | 5.657G            |
| 57                                               | 5.599G            | 58   | 5.300G            | 59   | 5.272G            | 60   | 5.383G            |
| 61                                               | 5.531G            | 62   | 5.560G            | 63   | 5.367G            | 64   | 5.417G            |
| 65                                               | 5.295G            | 66   | 5.661G            | 67   | 5.632G            | 68   | 5.557G            |
| 69                                               | 5.437G            | 70   | 5.416G            | 71   | 5.622G            | 72   | 5.704G            |
| 73                                               | 5.488G            | 74   | 5.370G            | 75   | 5.317G            | 76   | 5.583G            |
| 77                                               | 5.642G            | 78   | 5.407G            | 79   | 5.410G            | 80   | 5.715G            |
| 81                                               | 5.658G            | 82   | 5.466G            | 83   | 5.593G            | 84   | 5.532G            |
| 85                                               | 5.375G            | 86   | 5.252G            | 87   | 5.378G            | 88   | 5.578G            |
| 89                                               | 5.697G            | 90   | 5.413G            | 91   | 5.396G            | 92   | 5.293G            |
| 93                                               | 5.629G            | 94   | 5.371G            | 95   | 5.500G            | 96   | 5.411G            |
| 97                                               | 5.592G            | 98   | 5.460G            | 99   | 5.567G            | 100  | 5.288G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.289G            | 2    | 5.358G            | 3    | 5.453G            | 4    | 5.440G            |
| 5                                                | 5.312G            | 6    | 5.469G            | 7    | 5.701G            | 8    | 5.292G            |
| 9                                                | 5.309G            | 10   | 5.467G            | 11   | 5.342G            | 12   | 5.695G            |
| 13                                               | 5.525G            | 14   | 5.473G            | 15   | 5.569G            | 16   | 5.529G            |
| 17                                               | 5.334G            | 18   | 5.588G            | 19   | 5.532G            | 20   | 5.592G            |
| 21                                               | 5.443G            | 22   | 5.722G            | 23   | 5.454G            | 24   | 5.508G            |
| 25                                               | 5.378G            | 26   | 5.487G            | 27   | 5.338G            | 28   | 5.496G            |
| 29                                               | 5.434G            | 30   | 5.663G            | 31   | 5.633G            | 32   | 5.531G            |
| 33                                               | 5.463G            | 34   | 5.616G            | 35   | 5.630G            | 36   | 5.333G            |
| 37                                               | 5.626G            | 38   | 5.468G            | 39   | 5.363G            | 40   | 5.279G            |
| 41                                               | 5.404G            | 42   | 5.311G            | 43   | 5.683G            | 44   | 5.416G            |
| 45                                               | 5.368G            | 46   | 5.484G            | 47   | 5.310G            | 48   | 5.702G            |
| 49                                               | 5.514G            | 50   | 5.542G            | 51   | 5.421G            | 52   | 5.268G            |
| 53                                               | 5.283G            | 54   | 5.520G            | 55   | 5.457G            | 56   | 5.438G            |
| 57                                               | 5.493G            | 58   | 5.323G            | 59   | 5.266G            | 60   | 5.331G            |
| 61                                               | 5.433G            | 62   | 5.715G            | 63   | 5.682G            | 64   | 5.582G            |
| 65                                               | 5.321G            | 66   | 5.388G            | 67   | 5.585G            | 68   | 5.330G            |
| 69                                               | 5.322G            | 70   | 5.314G            | 71   | 5.551G            | 72   | 5.365G            |
| 73                                               | 5.301G            | 74   | 5.623G            | 75   | 5.401G            | 76   | 5.370G            |
| 77                                               | 5.429G            | 78   | 5.284G            | 79   | 5.271G            | 80   | 5.672G            |
| 81                                               | 5.721G            | 82   | 5.658G            | 83   | 5.351G            | 84   | 5.361G            |
| 85                                               | 5.717G            | 86   | 5.287G            | 87   | 5.714G            | 88   | 5.606G            |
| 89                                               | 5.480G            | 90   | 5.684G            | 91   | 5.318G            | 92   | 5.693G            |
| 93                                               | 5.405G            | 94   | 5.261G            | 95   | 5.485G            | 96   | 5.417G            |
| 97                                               | 5.636G            | 98   | 5.448G            | 99   | 5.698G            | 100  | 5.295G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.705G            | 2    | 5.525G            | 3    | 5.712G            | 4    | 5.547G            |
| 5                                                | 5.640G            | 6    | 5.681G            | 7    | 5.450G            | 8    | 5.352G            |
| 9                                                | 5.561G            | 10   | 5.469G            | 11   | 5.558G            | 12   | 5.674G            |
| 13                                               | 5.484G            | 14   | 5.536G            | 15   | 5.527G            | 16   | 5.444G            |
| 17                                               | 5.425G            | 18   | 5.327G            | 19   | 5.359G            | 20   | 5.570G            |
| 21                                               | 5.482G            | 22   | 5.512G            | 23   | 5.301G            | 24   | 5.330G            |
| 25                                               | 5.620G            | 26   | 5.355G            | 27   | 5.615G            | 28   | 5.318G            |
| 29                                               | 5.568G            | 30   | 5.313G            | 31   | 5.454G            | 32   | 5.552G            |
| 33                                               | 5.627G            | 34   | 5.542G            | 35   | 5.488G            | 36   | 5.545G            |
| 37                                               | 5.562G            | 38   | 5.716G            | 39   | 5.515G            | 40   | 5.508G            |
| 41                                               | 5.574G            | 42   | 5.315G            | 43   | 5.480G            | 44   | 5.294G            |
| 45                                               | 5.394G            | 46   | 5.537G            | 47   | 5.585G            | 48   | 5.328G            |
| 49                                               | 5.297G            | 50   | 5.688G            | 51   | 5.332G            | 52   | 5.581G            |
| 53                                               | 5.380G            | 54   | 5.576G            | 55   | 5.451G            | 56   | 5.284G            |
| 57                                               | 5.452G            | 58   | 5.422G            | 59   | 5.486G            | 60   | 5.507G            |
| 61                                               | 5.524G            | 62   | 5.575G            | 63   | 5.329G            | 64   | 5.283G            |
| 65                                               | 5.580G            | 66   | 5.291G            | 67   | 5.416G            | 68   | 5.643G            |
| 69                                               | 5.619G            | 70   | 5.589G            | 71   | 5.320G            | 72   | 5.711G            |
| 73                                               | 5.434G            | 74   | 5.473G            | 75   | 5.555G            | 76   | 5.504G            |
| 77                                               | 5.541G            | 78   | 5.260G            | 79   | 5.461G            | 80   | 5.350G            |
| 81                                               | 5.715G            | 82   | 5.456G            | 83   | 5.679G            | 84   | 5.676G            |
| 85                                               | 5.638G            | 86   | 5.478G            | 87   | 5.288G            | 88   | 5.277G            |
| 89                                               | 5.393G            | 90   | 5.466G            | 91   | 5.341G            | 92   | 5.386G            |
| 93                                               | 5.666G            | 94   | 5.453G            | 95   | 5.337G            | 96   | 5.358G            |
| 97                                               | 5.455G            | 98   | 5.413G            | 99   | 5.254G            | 100  | 5.414G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.380G            | 2    | 5.680G            | 3    | 5.652G            | 4    | 5.398G            |
| 5                                                | 5.386G            | 6    | 5.422G            | 7    | 5.353G            | 8    | 5.369G            |
| 9                                                | 5.283G            | 10   | 5.578G            | 11   | 5.468G            | 12   | 5.405G            |
| 13                                               | 5.645G            | 14   | 5.605G            | 15   | 5.642G            | 16   | 5.312G            |
| 17                                               | 5.449G            | 18   | 5.464G            | 19   | 5.370G            | 20   | 5.383G            |
| 21                                               | 5.539G            | 22   | 5.653G            | 23   | 5.389G            | 24   | 5.570G            |
| 25                                               | 5.723G            | 26   | 5.697G            | 27   | 5.639G            | 28   | 5.598G            |
| 29                                               | 5.450G            | 30   | 5.676G            | 31   | 5.553G            | 32   | 5.257G            |
| 33                                               | 5.621G            | 34   | 5.296G            | 35   | 5.604G            | 36   | 5.366G            |
| 37                                               | 5.618G            | 38   | 5.318G            | 39   | 5.537G            | 40   | 5.626G            |
| 41                                               | 5.611G            | 42   | 5.499G            | 43   | 5.270G            | 44   | 5.359G            |
| 45                                               | 5.647G            | 46   | 5.409G            | 47   | 5.679G            | 48   | 5.686G            |
| 49                                               | 5.620G            | 50   | 5.555G            | 51   | 5.658G            | 52   | 5.334G            |
| 53                                               | 5.475G            | 54   | 5.328G            | 55   | 5.377G            | 56   | 5.674G            |
| 57                                               | 5.264G            | 58   | 5.517G            | 59   | 5.385G            | 60   | 5.254G            |
| 61                                               | 5.397G            | 62   | 5.443G            | 63   | 5.478G            | 64   | 5.584G            |
| 65                                               | 5.648G            | 66   | 5.547G            | 67   | 5.378G            | 68   | 5.687G            |
| 69                                               | 5.519G            | 70   | 5.396G            | 71   | 5.518G            | 72   | 5.597G            |
| 73                                               | 5.702G            | 74   | 5.348G            | 75   | 5.581G            | 76   | 5.567G            |
| 77                                               | 5.271G            | 78   | 5.454G            | 79   | 5.325G            | 80   | 5.573G            |
| 81                                               | 5.552G            | 82   | 5.374G            | 83   | 5.293G            | 84   | 5.544G            |
| 85                                               | 5.282G            | 86   | 5.448G            | 87   | 5.309G            | 88   | 5.612G            |
| 89                                               | 5.395G            | 90   | 5.557G            | 91   | 5.575G            | 92   | 5.323G            |
| 93                                               | 5.319G            | 94   | 5.536G            | 95   | 5.722G            | 96   | 5.387G            |
| 97                                               | 5.551G            | 98   | 5.259G            | 99   | 5.298G            | 100  | 5.582G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.596G            | 2    | 5.649G            | 3    | 5.400G            | 4    | 5.522G            |
| 5                                                | 5.443G            | 6    | 5.391G            | 7    | 5.651G            | 8    | 5.535G            |
| 9                                                | 5.337G            | 10   | 5.268G            | 11   | 5.387G            | 12   | 5.587G            |
| 13                                               | 5.342G            | 14   | 5.274G            | 15   | 5.657G            | 16   | 5.351G            |
| 17                                               | 5.367G            | 18   | 5.565G            | 19   | 5.509G            | 20   | 5.523G            |
| 21                                               | 5.350G            | 22   | 5.280G            | 23   | 5.442G            | 24   | 5.584G            |
| 25                                               | 5.628G            | 26   | 5.422G            | 27   | 5.335G            | 28   | 5.372G            |
| 29                                               | 5.491G            | 30   | 5.462G            | 31   | 5.604G            | 32   | 5.363G            |
| 33                                               | 5.302G            | 34   | 5.658G            | 35   | 5.666G            | 36   | 5.578G            |
| 37                                               | 5.269G            | 38   | 5.263G            | 39   | 5.529G            | 40   | 5.308G            |
| 41                                               | 5.532G            | 42   | 5.287G            | 43   | 5.436G            | 44   | 5.528G            |
| 45                                               | 5.284G            | 46   | 5.689G            | 47   | 5.467G            | 48   | 5.665G            |
| 49                                               | 5.688G            | 50   | 5.333G            | 51   | 5.554G            | 52   | 5.722G            |
| 53                                               | 5.504G            | 54   | 5.285G            | 55   | 5.306G            | 56   | 5.551G            |
| 57                                               | 5.384G            | 58   | 5.580G            | 59   | 5.407G            | 60   | 5.361G            |
| 61                                               | 5.373G            | 62   | 5.676G            | 63   | 5.482G            | 64   | 5.347G            |
| 65                                               | 5.500G            | 66   | 5.710G            | 67   | 5.662G            | 68   | 5.623G            |
| 69                                               | 5.322G            | 70   | 5.612G            | 71   | 5.444G            | 72   | 5.429G            |
| 73                                               | 5.460G            | 74   | 5.629G            | 75   | 5.360G            | 76   | 5.313G            |
| 77                                               | 5.541G            | 78   | 5.416G            | 79   | 5.561G            | 80   | 5.619G            |
| 81                                               | 5.704G            | 82   | 5.300G            | 83   | 5.631G            | 84   | 5.611G            |
| 85                                               | 5.488G            | 86   | 5.618G            | 87   | 5.552G            | 88   | 5.250G            |
| 89                                               | 5.371G            | 90   | 5.258G            | 91   | 5.251G            | 92   | 5.633G            |
| 93                                               | 5.475G            | 94   | 5.639G            | 95   | 5.566G            | 96   | 5.632G            |
| 97                                               | 5.358G            | 98   | 5.617G            | 99   | 5.492G            | 100  | 5.498G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.494G            | 2    | 5.369G            | 3    | 5.704G            | 4    | 5.580G            |
| 5                                                | 5.497G            | 6    | 5.598G            | 7    | 5.462G            | 8    | 5.435G            |
| 9                                                | 5.459G            | 10   | 5.591G            | 11   | 5.559G            | 12   | 5.495G            |
| 13                                               | 5.302G            | 14   | 5.558G            | 15   | 5.609G            | 16   | 5.306G            |
| 17                                               | 5.632G            | 18   | 5.639G            | 19   | 5.425G            | 20   | 5.702G            |
| 21                                               | 5.252G            | 22   | 5.263G            | 23   | 5.427G            | 24   | 5.330G            |
| 25                                               | 5.316G            | 26   | 5.253G            | 27   | 5.687G            | 28   | 5.266G            |
| 29                                               | 5.692G            | 30   | 5.472G            | 31   | 5.682G            | 32   | 5.708G            |
| 33                                               | 5.719G            | 34   | 5.716G            | 35   | 5.650G            | 36   | 5.717G            |
| 37                                               | 5.350G            | 38   | 5.452G            | 39   | 5.431G            | 40   | 5.429G            |
| 41                                               | 5.319G            | 42   | 5.393G            | 43   | 5.503G            | 44   | 5.620G            |
| 45                                               | 5.290G            | 46   | 5.400G            | 47   | 5.614G            | 48   | 5.312G            |
| 49                                               | 5.568G            | 50   | 5.373G            | 51   | 5.445G            | 52   | 5.636G            |
| 53                                               | 5.634G            | 54   | 5.331G            | 55   | 5.328G            | 56   | 5.483G            |
| 57                                               | 5.303G            | 58   | 5.700G            | 59   | 5.310G            | 60   | 5.505G            |
| 61                                               | 5.590G            | 62   | 5.533G            | 63   | 5.343G            | 64   | 5.711G            |
| 65                                               | 5.551G            | 66   | 5.506G            | 67   | 5.476G            | 68   | 5.407G            |
| 69                                               | 5.398G            | 70   | 5.357G            | 71   | 5.485G            | 72   | 5.292G            |
| 73                                               | 5.612G            | 74   | 5.584G            | 75   | 5.481G            | 76   | 5.694G            |
| 77                                               | 5.264G            | 78   | 5.683G            | 79   | 5.541G            | 80   | 5.475G            |
| 81                                               | 5.693G            | 82   | 5.388G            | 83   | 5.635G            | 84   | 5.555G            |
| 85                                               | 5.608G            | 86   | 5.283G            | 87   | 5.308G            | 88   | 5.493G            |
| 89                                               | 5.570G            | 90   | 5.260G            | 91   | 5.557G            | 92   | 5.411G            |
| 93                                               | 5.413G            | 94   | 5.295G            | 95   | 5.713G            | 96   | 5.507G            |
| 97                                               | 5.451G            | 98   | 5.254G            | 99   | 5.471G            | 100  | 5.709G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.578G            | 2    | 5.505G            | 3    | 5.309G            | 4    | 5.599G            |
| 5                                                | 5.343G            | 6    | 5.532G            | 7    | 5.354G            | 8    | 5.671G            |
| 9                                                | 5.262G            | 10   | 5.602G            | 11   | 5.533G            | 12   | 5.250G            |
| 13                                               | 5.320G            | 14   | 5.632G            | 15   | 5.610G            | 16   | 5.308G            |
| 17                                               | 5.539G            | 18   | 5.717G            | 19   | 5.428G            | 20   | 5.707G            |
| 21                                               | 5.701G            | 22   | 5.442G            | 23   | 5.603G            | 24   | 5.375G            |
| 25                                               | 5.334G            | 26   | 5.706G            | 27   | 5.626G            | 28   | 5.702G            |
| 29                                               | 5.453G            | 30   | 5.703G            | 31   | 5.319G            | 32   | 5.478G            |
| 33                                               | 5.378G            | 34   | 5.520G            | 35   | 5.509G            | 36   | 5.447G            |
| 37                                               | 5.563G            | 38   | 5.678G            | 39   | 5.569G            | 40   | 5.346G            |
| 41                                               | 5.598G            | 42   | 5.596G            | 43   | 5.471G            | 44   | 5.680G            |
| 45                                               | 5.622G            | 46   | 5.306G            | 47   | 5.348G            | 48   | 5.468G            |
| 49                                               | 5.685G            | 50   | 5.633G            | 51   | 5.302G            | 52   | 5.665G            |
| 53                                               | 5.260G            | 54   | 5.494G            | 55   | 5.321G            | 56   | 5.480G            |
| 57                                               | 5.571G            | 58   | 5.661G            | 59   | 5.410G            | 60   | 5.394G            |
| 61                                               | 5.664G            | 62   | 5.570G            | 63   | 5.292G            | 64   | 5.630G            |
| 65                                               | 5.416G            | 66   | 5.545G            | 67   | 5.605G            | 68   | 5.639G            |
| 69                                               | 5.646G            | 70   | 5.593G            | 71   | 5.379G            | 72   | 5.648G            |
| 73                                               | 5.487G            | 74   | 5.625G            | 75   | 5.450G            | 76   | 5.301G            |
| 77                                               | 5.637G            | 78   | 5.549G            | 79   | 5.503G            | 80   | 5.564G            |
| 81                                               | 5.353G            | 82   | 5.662G            | 83   | 5.623G            | 84   | 5.565G            |
| 85                                               | 5.548G            | 86   | 5.467G            | 87   | 5.700G            | 88   | 5.445G            |
| 89                                               | 5.257G            | 90   | 5.360G            | 91   | 5.357G            | 92   | 5.543G            |
| 93                                               | 5.363G            | 94   | 5.519G            | 95   | 5.377G            | 96   | 5.463G            |
| 97                                               | 5.432G            | 98   | 5.328G            | 99   | 5.427G            | 100  | 5.281G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.551G            | 2    | 5.406G            | 3    | 5.488G            | 4    | 5.357G            |
| 5                                                | 5.539G            | 6    | 5.635G            | 7    | 5.633G            | 8    | 5.518G            |
| 9                                                | 5.672G            | 10   | 5.636G            | 11   | 5.527G            | 12   | 5.450G            |
| 13                                               | 5.601G            | 14   | 5.279G            | 15   | 5.651G            | 16   | 5.641G            |
| 17                                               | 5.699G            | 18   | 5.323G            | 19   | 5.555G            | 20   | 5.274G            |
| 21                                               | 5.421G            | 22   | 5.505G            | 23   | 5.399G            | 24   | 5.674G            |
| 25                                               | 5.317G            | 26   | 5.306G            | 27   | 5.292G            | 28   | 5.609G            |
| 29                                               | 5.254G            | 30   | 5.686G            | 31   | 5.309G            | 32   | 5.537G            |
| 33                                               | 5.307G            | 34   | 5.523G            | 35   | 5.288G            | 36   | 5.632G            |
| 37                                               | 5.320G            | 38   | 5.715G            | 39   | 5.398G            | 40   | 5.335G            |
| 41                                               | 5.340G            | 42   | 5.509G            | 43   | 5.613G            | 44   | 5.458G            |
| 45                                               | 5.703G            | 46   | 5.506G            | 47   | 5.353G            | 48   | 5.375G            |
| 49                                               | 5.504G            | 50   | 5.623G            | 51   | 5.409G            | 52   | 5.516G            |
| 53                                               | 5.269G            | 54   | 5.610G            | 55   | 5.431G            | 56   | 5.554G            |
| 57                                               | 5.682G            | 58   | 5.679G            | 59   | 5.625G            | 60   | 5.696G            |
| 61                                               | 5.325G            | 62   | 5.534G            | 63   | 5.701G            | 64   | 5.478G            |
| 65                                               | 5.411G            | 66   | 5.347G            | 67   | 5.638G            | 68   | 5.430G            |
| 69                                               | 5.272G            | 70   | 5.657G            | 71   | 5.298G            | 72   | 5.700G            |
| 73                                               | 5.480G            | 74   | 5.680G            | 75   | 5.416G            | 76   | 5.376G            |
| 77                                               | 5.646G            | 78   | 5.587G            | 79   | 5.395G            | 80   | 5.514G            |
| 81                                               | 5.467G            | 82   | 5.343G            | 83   | 5.627G            | 84   | 5.316G            |
| 85                                               | 5.622G            | 86   | 5.559G            | 87   | 5.637G            | 88   | 5.541G            |
| 89                                               | 5.469G            | 90   | 5.662G            | 91   | 5.465G            | 92   | 5.466G            |
| 93                                               | 5.714G            | 94   | 5.310G            | 95   | 5.295G            | 96   | 5.337G            |
| 97                                               | 5.675G            | 98   | 5.293G            | 99   | 5.608G            | 100  | 5.558G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.270G            | 2    | 5.280G            | 3    | 5.623G            | 4    | 5.597G            |
| 5                                                | 5.639G            | 6    | 5.290G            | 7    | 5.674G            | 8    | 5.438G            |
| 9                                                | 5.630G            | 10   | 5.284G            | 11   | 5.360G            | 12   | 5.389G            |
| 13                                               | 5.561G            | 14   | 5.530G            | 15   | 5.541G            | 16   | 5.604G            |
| 17                                               | 5.300G            | 18   | 5.704G            | 19   | 5.430G            | 20   | 5.564G            |
| 21                                               | 5.482G            | 22   | 5.675G            | 23   | 5.680G            | 24   | 5.590G            |
| 25                                               | 5.303G            | 26   | 5.268G            | 27   | 5.622G            | 28   | 5.508G            |
| 29                                               | 5.603G            | 30   | 5.474G            | 31   | 5.316G            | 32   | 5.497G            |
| 33                                               | 5.466G            | 34   | 5.660G            | 35   | 5.579G            | 36   | 5.450G            |
| 37                                               | 5.646G            | 38   | 5.415G            | 39   | 5.317G            | 40   | 5.707G            |
| 41                                               | 5.330G            | 42   | 5.322G            | 43   | 5.628G            | 44   | 5.484G            |
| 45                                               | 5.664G            | 46   | 5.700G            | 47   | 5.428G            | 48   | 5.371G            |
| 49                                               | 5.636G            | 50   | 5.377G            | 51   | 5.465G            | 52   | 5.481G            |
| 53                                               | 5.475G            | 54   | 5.665G            | 55   | 5.253G            | 56   | 5.591G            |
| 57                                               | 5.624G            | 58   | 5.609G            | 59   | 5.299G            | 60   | 5.440G            |
| 61                                               | 5.418G            | 62   | 5.384G            | 63   | 5.483G            | 64   | 5.582G            |
| 65                                               | 5.388G            | 66   | 5.666G            | 67   | 5.457G            | 68   | 5.708G            |
| 69                                               | 5.642G            | 70   | 5.411G            | 71   | 5.608G            | 72   | 5.627G            |
| 73                                               | 5.410G            | 74   | 5.499G            | 75   | 5.405G            | 76   | 5.544G            |
| 77                                               | 5.494G            | 78   | 5.718G            | 79   | 5.339G            | 80   | 5.442G            |
| 81                                               | 5.616G            | 82   | 5.261G            | 83   | 5.560G            | 84   | 5.373G            |
| 85                                               | 5.533G            | 86   | 5.263G            | 87   | 5.578G            | 88   | 5.509G            |
| 89                                               | 5.265G            | 90   | 5.691G            | 91   | 5.670G            | 92   | 5.369G            |
| 93                                               | 5.715G            | 94   | 5.283G            | 95   | 5.567G            | 96   | 5.407G            |
| 97                                               | 5.570G            | 98   | 5.645G            | 99   | 5.313G            | 100  | 5.306G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.416G            | 2    | 5.254G            | 3    | 5.482G            | 4    | 5.523G            |
| 5                                                | 5.395G            | 6    | 5.387G            | 7    | 5.407G            | 8    | 5.685G            |
| 9                                                | 5.382G            | 10   | 5.352G            | 11   | 5.704G            | 12   | 5.721G            |
| 13                                               | 5.466G            | 14   | 5.348G            | 15   | 5.477G            | 16   | 5.540G            |
| 17                                               | 5.302G            | 18   | 5.568G            | 19   | 5.450G            | 20   | 5.521G            |
| 21                                               | 5.708G            | 22   | 5.326G            | 23   | 5.600G            | 24   | 5.411G            |
| 25                                               | 5.606G            | 26   | 5.278G            | 27   | 5.535G            | 28   | 5.616G            |
| 29                                               | 5.676G            | 30   | 5.536G            | 31   | 5.562G            | 32   | 5.662G            |
| 33                                               | 5.693G            | 34   | 5.688G            | 35   | 5.396G            | 36   | 5.461G            |
| 37                                               | 5.251G            | 38   | 5.417G            | 39   | 5.627G            | 40   | 5.598G            |
| 41                                               | 5.338G            | 42   | 5.555G            | 43   | 5.552G            | 44   | 5.362G            |
| 45                                               | 5.608G            | 46   | 5.316G            | 47   | 5.647G            | 48   | 5.397G            |
| 49                                               | 5.646G            | 50   | 5.331G            | 51   | 5.534G            | 52   | 5.250G            |
| 53                                               | 5.720G            | 54   | 5.480G            | 55   | 5.304G            | 56   | 5.611G            |
| 57                                               | 5.663G            | 58   | 5.405G            | 59   | 5.446G            | 60   | 5.700G            |
| 61                                               | 5.603G            | 62   | 5.515G            | 63   | 5.497G            | 64   | 5.341G            |
| 65                                               | 5.299G            | 66   | 5.376G            | 67   | 5.410G            | 68   | 5.545G            |
| 69                                               | 5.294G            | 70   | 5.711G            | 71   | 5.325G            | 72   | 5.285G            |
| 73                                               | 5.287G            | 74   | 5.644G            | 75   | 5.705G            | 76   | 5.690G            |
| 77                                               | 5.577G            | 78   | 5.363G            | 79   | 5.381G            | 80   | 5.588G            |
| 81                                               | 5.557G            | 82   | 5.436G            | 83   | 5.543G            | 84   | 5.378G            |
| 85                                               | 5.453G            | 86   | 5.589G            | 87   | 5.273G            | 88   | 5.615G            |
| 89                                               | 5.503G            | 90   | 5.559G            | 91   | 5.398G            | 92   | 5.621G            |
| 93                                               | 5.379G            | 94   | 5.394G            | 95   | 5.699G            | 96   | 5.619G            |
| 97                                               | 5.452G            | 98   | 5.502G            | 99   | 5.270G            | 100  | 5.255G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.338G            | 2    | 5.353G            | 3    | 5.309G            | 4    | 5.401G            |
| 5                                                | 5.349G            | 6    | 5.659G            | 7    | 5.709G            | 8    | 5.679G            |
| 9                                                | 5.683G            | 10   | 5.544G            | 11   | 5.280G            | 12   | 5.382G            |
| 13                                               | 5.580G            | 14   | 5.379G            | 15   | 5.607G            | 16   | 5.551G            |
| 17                                               | 5.514G            | 18   | 5.260G            | 19   | 5.479G            | 20   | 5.714G            |
| 21                                               | 5.699G            | 22   | 5.494G            | 23   | 5.292G            | 24   | 5.316G            |
| 25                                               | 5.571G            | 26   | 5.691G            | 27   | 5.444G            | 28   | 5.655G            |
| 29                                               | 5.390G            | 30   | 5.584G            | 31   | 5.430G            | 32   | 5.393G            |
| 33                                               | 5.562G            | 34   | 5.633G            | 35   | 5.274G            | 36   | 5.368G            |
| 37                                               | 5.325G            | 38   | 5.436G            | 39   | 5.589G            | 40   | 5.472G            |
| 41                                               | 5.441G            | 42   | 5.285G            | 43   | 5.276G            | 44   | 5.478G            |
| 45                                               | 5.632G            | 46   | 5.535G            | 47   | 5.253G            | 48   | 5.581G            |
| 49                                               | 5.399G            | 50   | 5.255G            | 51   | 5.624G            | 52   | 5.715G            |
| 53                                               | 5.327G            | 54   | 5.340G            | 55   | 5.596G            | 56   | 5.323G            |
| 57                                               | 5.635G            | 58   | 5.261G            | 59   | 5.431G            | 60   | 5.331G            |
| 61                                               | 5.265G            | 62   | 5.394G            | 63   | 5.381G            | 64   | 5.626G            |
| 65                                               | 5.453G            | 66   | 5.308G            | 67   | 5.448G            | 68   | 5.582G            |
| 69                                               | 5.525G            | 70   | 5.644G            | 71   | 5.541G            | 72   | 5.687G            |
| 73                                               | 5.277G            | 74   | 5.304G            | 75   | 5.660G            | 76   | 5.618G            |
| 77                                               | 5.256G            | 78   | 5.366G            | 79   | 5.647G            | 80   | 5.565G            |
| 81                                               | 5.671G            | 82   | 5.252G            | 83   | 5.370G            | 84   | 5.496G            |
| 85                                               | 5.567G            | 86   | 5.395G            | 87   | 5.642G            | 88   | 5.588G            |
| 89                                               | 5.638G            | 90   | 5.389G            | 91   | 5.648G            | 92   | 5.458G            |
| 93                                               | 5.523G            | 94   | 5.563G            | 95   | 5.716G            | 96   | 5.597G            |
| 97                                               | 5.559G            | 98   | 5.426G            | 99   | 5.334G            | 100  | 5.534G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.270G            | 2    | 5.282G            | 3    | 5.447G            | 4    | 5.316G            |
| 5                                                | 5.548G            | 6    | 5.334G            | 7    | 5.647G            | 8    | 5.576G            |
| 9                                                | 5.659G            | 10   | 5.314G            | 11   | 5.386G            | 12   | 5.345G            |
| 13                                               | 5.324G            | 14   | 5.290G            | 15   | 5.515G            | 16   | 5.597G            |
| 17                                               | 5.573G            | 18   | 5.470G            | 19   | 5.364G            | 20   | 5.712G            |
| 21                                               | 5.649G            | 22   | 5.461G            | 23   | 5.685G            | 24   | 5.320G            |
| 25                                               | 5.366G            | 26   | 5.413G            | 27   | 5.635G            | 28   | 5.411G            |
| 29                                               | 5.374G            | 30   | 5.351G            | 31   | 5.586G            | 32   | 5.286G            |
| 33                                               | 5.522G            | 34   | 5.390G            | 35   | 5.275G            | 36   | 5.349G            |
| 37                                               | 5.575G            | 38   | 5.258G            | 39   | 5.274G            | 40   | 5.662G            |
| 41                                               | 5.429G            | 42   | 5.658G            | 43   | 5.549G            | 44   | 5.449G            |
| 45                                               | 5.430G            | 46   | 5.634G            | 47   | 5.599G            | 48   | 5.695G            |
| 49                                               | 5.438G            | 50   | 5.454G            | 51   | 5.518G            | 52   | 5.384G            |
| 53                                               | 5.698G            | 54   | 5.525G            | 55   | 5.663G            | 56   | 5.672G            |
| 57                                               | 5.651G            | 58   | 5.279G            | 59   | 5.485G            | 60   | 5.631G            |
| 61                                               | 5.358G            | 62   | 5.406G            | 63   | 5.456G            | 64   | 5.622G            |
| 65                                               | 5.716G            | 66   | 5.620G            | 67   | 5.431G            | 68   | 5.460G            |
| 69                                               | 5.643G            | 70   | 5.359G            | 71   | 5.562G            | 72   | 5.288G            |
| 73                                               | 5.714G            | 74   | 5.289G            | 75   | 5.408G            | 76   | 5.572G            |
| 77                                               | 5.445G            | 78   | 5.577G            | 79   | 5.452G            | 80   | 5.371G            |
| 81                                               | 5.446G            | 82   | 5.262G            | 83   | 5.471G            | 84   | 5.656G            |
| 85                                               | 5.307G            | 86   | 5.574G            | 87   | 5.260G            | 88   | 5.362G            |
| 89                                               | 5.420G            | 90   | 5.674G            | 91   | 5.595G            | 92   | 5.629G            |
| 93                                               | 5.667G            | 94   | 5.387G            | 95   | 5.424G            | 96   | 5.709G            |
| 97                                               | 5.325G            | 98   | 5.507G            | 99   | 5.570G            | 100  | 5.513G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.578G            | 2    | 5.337G            | 3    | 5.417G            | 4    | 5.700G            |
| 5                                                | 5.342G            | 6    | 5.667G            | 7    | 5.428G            | 8    | 5.415G            |
| 9                                                | 5.639G            | 10   | 5.525G            | 11   | 5.526G            | 12   | 5.533G            |
| 13                                               | 5.261G            | 14   | 5.631G            | 15   | 5.545G            | 16   | 5.577G            |
| 17                                               | 5.612G            | 18   | 5.498G            | 19   | 5.393G            | 20   | 5.574G            |
| 21                                               | 5.550G            | 22   | 5.718G            | 23   | 5.298G            | 24   | 5.520G            |
| 25                                               | 5.255G            | 26   | 5.387G            | 27   | 5.356G            | 28   | 5.444G            |
| 29                                               | 5.448G            | 30   | 5.353G            | 31   | 5.668G            | 32   | 5.402G            |
| 33                                               | 5.414G            | 34   | 5.637G            | 35   | 5.676G            | 36   | 5.363G            |
| 37                                               | 5.445G            | 38   | 5.354G            | 39   | 5.403G            | 40   | 5.267G            |
| 41                                               | 5.703G            | 42   | 5.560G            | 43   | 5.559G            | 44   | 5.680G            |
| 45                                               | 5.506G            | 46   | 5.257G            | 47   | 5.365G            | 48   | 5.317G            |
| 49                                               | 5.454G            | 50   | 5.629G            | 51   | 5.260G            | 52   | 5.543G            |
| 53                                               | 5.673G            | 54   | 5.620G            | 55   | 5.389G            | 56   | 5.627G            |
| 57                                               | 5.661G            | 58   | 5.386G            | 59   | 5.645G            | 60   | 5.373G            |
| 61                                               | 5.623G            | 62   | 5.456G            | 63   | 5.606G            | 64   | 5.289G            |
| 65                                               | 5.658G            | 66   | 5.258G            | 67   | 5.584G            | 68   | 5.446G            |
| 69                                               | 5.483G            | 70   | 5.427G            | 71   | 5.399G            | 72   | 5.457G            |
| 73                                               | 5.642G            | 74   | 5.299G            | 75   | 5.603G            | 76   | 5.552G            |
| 77                                               | 5.495G            | 78   | 5.576G            | 79   | 5.715G            | 80   | 5.652G            |
| 81                                               | 5.449G            | 82   | 5.410G            | 83   | 5.626G            | 84   | 5.651G            |
| 85                                               | 5.538G            | 86   | 5.687G            | 87   | 5.346G            | 88   | 5.250G            |
| 89                                               | 5.692G            | 90   | 5.252G            | 91   | 5.322G            | 92   | 5.632G            |
| 93                                               | 5.659G            | 94   | 5.681G            | 95   | 5.585G            | 96   | 5.426G            |

## 802.11ac (VHT40)

| Type 1 Radar Statistical Performances |                                            |                        |                  |         |                       |           |
|---------------------------------------|--------------------------------------------|------------------------|------------------|---------|-----------------------|-----------|
| Trial #                               | Pulse Repetition Frequency Number(1 to 23) | PRF(Pulse per seconds) | Pulses per Burst | PRI (s) | Radar Frequency (MHz) | Detection |
| 1                                     | 1                                          | 1930.5                 | 102              | 518.0u  | 5490                  | Yes       |
| 2                                     | 2                                          | 1858.7                 | 99               | 538.0u  | 5491                  | Yes       |
| 3                                     | 3                                          | 1792.1                 | 95               | 558.0u  | 5492                  | Yes       |
| 4                                     | 4                                          | 1730.1                 | 92               | 578.0u  | 5493                  | Yes       |
| 5                                     | 5                                          | 1672.2                 | 89               | 598.0u  | 5494                  | Yes       |
| 6                                     | 7                                          | 1567.4                 | 83               | 638.0u  | 5496                  | Yes       |
| 7                                     | 8                                          | 1519.8                 | 81               | 658.0u  | 5498                  | Yes       |
| 8                                     | 9                                          | 1474.9                 | 78               | 678.0u  | 5500                  | Yes       |
| 9                                     | 10                                         | 1432.7                 | 76               | 698.0u  | 5502                  | Yes       |
| 10                                    | 11                                         | 1392.8                 | 74               | 718.0u  | 5504                  | Yes       |
| 11                                    | 12                                         | 1355                   | 72               | 738.0u  | 5506                  | Yes       |
| 12                                    | 15                                         | 1253.1                 | 67               | 798.0u  | 5507                  | Yes       |
| 13                                    | 16                                         | 1222.5                 | 65               | 818.0u  | 5508                  | Yes       |
| 14                                    | 17                                         | 1193.3                 | 63               | 838.0u  | 5509                  | Yes       |
| 15                                    | 20                                         | 1113.6                 | 59               | 898.0u  | 5510                  | Yes       |
| 16                                    |                                            | 1474.9                 | 78               | 679.0u  | 5511                  | Yes       |
| 17                                    |                                            | 1239.2                 | 66               | 807.0u  | 5512                  | Yes       |
| 18                                    |                                            | 1102.5                 | 59               | 907.0u  | 5513                  | Yes       |
| 19                                    |                                            | 1300.4                 | 69               | 769.0u  | 5514                  | Yes       |
| 20                                    |                                            | 1076.4                 | 57               | 929.0u  | 5515                  | Yes       |
| 21                                    |                                            | 1584.8                 | 84               | 631.0u  | 5517                  | Yes       |
| 22                                    |                                            | 1122.3                 | 60               | 891.0u  | 5519                  | Yes       |
| 23                                    |                                            | 1876.2                 | 100              | 533.0u  | 5521                  | Yes       |
| 24                                    |                                            | 1293.7                 | 69               | 773.0u  | 5523                  | Yes       |
| 25                                    |                                            | 1071.8                 | 57               | 933.0u  | 5525                  | Yes       |
| 26                                    |                                            | 1481.5                 | 79               | 675.0u  | 5526                  | Yes       |
| 27                                    |                                            | 1197.6                 | 64               | 835.0u  | 5527                  | Yes       |
| 28                                    |                                            | 1224.0                 | 65               | 817.0u  | 5528                  | Yes       |
| 29                                    |                                            | 1426.5                 | 76               | 701.0u  | 5529                  | Yes       |
| 30                                    |                                            | 326.3                  | 18               | 3.065m  | 5530                  | Yes       |
| Detection Rate: 100 %                 |                                            |                        |                  |         |                       |           |

| Type 2 Radar Statistical Performances |                  |                 |         |                 |           |
|---------------------------------------|------------------|-----------------|---------|-----------------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection |
| 1                                     | 29               | 4.9u            | 210u    | 5495            | No        |
| 2                                     | 24               | 1.7u            | 178u    | 5521            | Yes       |
| 3                                     | 25               | 2.1u            | 173u    | 5503            | Yes       |
| 4                                     | 28               | 4u              | 222u    | 5500            | Yes       |
| 5                                     | 27               | 3.6u            | 219u    | 5504            | Yes       |
| 6                                     | 29               | 5u              | 212u    | 5491            | Yes       |
| 7                                     | 29               | 4.9u            | 176u    | 5520            | Yes       |
| 8                                     | 23               | 1.1u            | 199u    | 5519            | Yes       |
| 9                                     | 23               | 1.2u            | 162u    | 5517            | Yes       |
| 10                                    | 29               | 4.5u            | 220u    | 5516            | Yes       |
| 11                                    | 29               | 5u              | 229u    | 5524            | Yes       |
| 12                                    | 29               | 5u              | 214u    | 5501            | Yes       |
| 13                                    | 25               | 2.4u            | 153uu   | 5502            | Yes       |
| 14                                    | 28               | 4.1u            | 197u    | 5522            | Yes       |
| 15                                    | 24               | 2u              | 211u    | 5508            | Yes       |
| 16                                    | 29               | 4.6u            | 190u    | 5523            | Yes       |
| 17                                    | 23               | 1u              | 213u    | 5514            | Yes       |
| 18                                    | 25               | 2.4u            | 218u    | 5511            | Yes       |
| 19                                    | 26               | 3.2u            | 215u    | 5505            | Yes       |
| 20                                    | 26               | 3.1u            | 157u    | 5493            | Yes       |
| 21                                    | 25               | 2.7u            | 168u    | 5510            | Yes       |
| 22                                    | 25               | 2.6u            | 227u    | 5499            | Yes       |
| 23                                    | 24               | 2u              | 171u    | 5512            | Yes       |
| 24                                    | 23               | 1.1u            | 158u    | 5513            | Yes       |
| 25                                    | 23               | 1u              | 167u    | 5515            | Yes       |
| 26                                    | 29               | 4.9u            | 150u    | 5509            | Yes       |
| 27                                    | 29               | 4.8u            | 191u    | 5525            | Yes       |
| 28                                    | 25               | 2.3u            | 159u    | 5528            | Yes       |
| 29                                    | 28               | 4.3u            | 226u    | 5518            | Yes       |
| 30                                    | 26               | 3.3u            | 208u    | 5507            | Yes       |
| Detection Rate: 96.67 %               |                  |                 |         |                 |           |

| Type 3 Radar Statistical Performances |                  |                 |         |                 |                         |
|---------------------------------------|------------------|-----------------|---------|-----------------|-------------------------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection               |
| 1                                     | 18               | 9.9u            | 235u    | 5509            | Yes                     |
| 2                                     | 16               | 6.7u            | 357u    | 5508            | Yes                     |
| 3                                     | 16               | 7.1u            | 333u    | 5505            | Yes                     |
| 4                                     | 18               | 9u              | 242u    | 5499            | Yes                     |
| 5                                     | 17               | 8.6u            | 397u    | 5502            | Yes                     |
| 6                                     | 18               | 10u             | 302u    | 5530            | No                      |
| 7                                     | 18               | 9.9u            | 203u    | 5493            | Yes                     |
| 8                                     | 16               | 6.1u            | 428u    | 5497            | Yes                     |
| 9                                     | 16               | 6.2u            | 335u    | 5498            | Yes                     |
| 10                                    | 18               | 9.5u            | 240u    | 5510            | Yes                     |
| 11                                    | 18               | 10u             | 224u    | 5519            | Yes                     |
| 12                                    | 18               | 10u             | 410u    | 5501            | Yes                     |
| 13                                    | 17               | 7.4u            | 359u    | 5503            | Yes                     |
| 14                                    | 18               | 9.1u            | 269u    | 5490            | Yes                     |
| 15                                    | 16               | 7u              | 250u    | 5504            | Yes                     |
| 16                                    | 18               | 9.6u            | 247u    | 5511            | Yes                     |
| 17                                    | 16               | 6u              | 222u    | 5526            | Yes                     |
| 18                                    | 17               | 7.4u            | 424u    | 5507            | Yes                     |
| 19                                    | 17               | 8.2u            | 393u    | 5515            | Yes                     |
| 20                                    | 17               | 8.1u            | 382u    | 5513            | Yes                     |
| 21                                    | 17               | 7.7u            | 486u    | 5494            | Yes                     |
| 22                                    | 17               | 7.6u            | 480u    | 5496            | Yes                     |
| 23                                    | 16               | 7u              | 360u    | 5512            | Yes                     |
| 24                                    | 16               | 6.1u            | 297u    | 5500            | Yes                     |
| 25                                    | 16               | 6u              | 265u    | 5524            | Yes                     |
| 26                                    | 18               | 9.9u            | 263u    | 5525            | No                      |
| 27                                    | 18               | 9.8u            | 324u    | 5516            | Yes                     |
| 28                                    | 17               | 7.3u            | 386u    | 5491            | Yes                     |
| 29                                    | 18               | 9.3u            | 311u    | 5520            | Yes                     |
| 30                                    | 17               | 8.3u            | 378u    | 5506            | Yes                     |
|                                       |                  |                 |         |                 | Detection Rate: 93.33 % |

| Type 4 Radar Statistical Performances |                  |                 |         |                 |           |
|---------------------------------------|------------------|-----------------|---------|-----------------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection |
| 1                                     | 16               | 19.7            | 235     | 5520            | Yes       |
| 2                                     | 12               | 12.7            | 357     | 5516            | Yes       |
| 3                                     | 13               | 13.6            | 333     | 5492            | Yes       |
| 4                                     | 15               | 17.7            | 242     | 5529            | Yes       |
| 5                                     | 15               | 16.8            | 397     | 5504            | Yes       |
| 6                                     | 16               | 20              | 302     | 5495            | Yes       |
| 7                                     | 16               | 19.7            | 203     | 5519            | Yes       |
| 8                                     | 12               | 11.3            | 428     | 5528            | Yes       |
| 9                                     | 12               | 11.5            | 335     | 5525            | Yes       |
| 10                                    | 16               | 18.8            | 240     | 5499            | Yes       |
| 11                                    | 16               | 20              | 224     | 5498            | Yes       |
| 12                                    | 16               | 20              | 410     | 5491            | Yes       |
| 13                                    | 13               | 14.2            | 359     | 5502            | Yes       |
| 14                                    | 15               | 18              | 269     | 5508            | Yes       |
| 15                                    | 13               | 13.3            | 250     | 5515            | Yes       |
| 16                                    | 16               | 19              | 247     | 5505            | Yes       |
| 17                                    | 12               | 11.1            | 222     | 5509            | Yes       |
| 18                                    | 13               | 14.2            | 424     | 5517            | Yes       |
| 19                                    | 14               | 15.9            | 393     | 5522            | Yes       |
| 20                                    | 14               | 15.8            | 382     | 5493            | Yes       |
| 21                                    | 14               | 14.8            | 486     | 5526            | Yes       |
| 22                                    | 13               | 14.6            | 480     | 5503            | Yes       |
| 23                                    | 13               | 13.2            | 360     | 5521            | Yes       |
| 24                                    | 12               | 11.3            | 297     | 5501            | No        |
| 25                                    | 12               | 11              | 265     | 5496            | Yes       |
| 26                                    | 16               | 19.6            | 263     | 5527            | Yes       |
| 27                                    | 16               | 19.6            | 324     | 5506            | Yes       |
| 28                                    | 13               | 14              | 386     | 5530            | Yes       |
| 29                                    | 16               | 18.3            | 311     | 5523            | Yes       |
| 30                                    | 14               | 16.1            | 378     | 5507            | Yes       |
| Detection Rate: 96.67 %               |                  |                 |         |                 |           |

| Type 5 Radar Statistical Performances |                  |                        |
|---------------------------------------|------------------|------------------------|
| Trial #                               | Test Signal Name | Detection              |
| 1                                     | LP_Signal_01     | Yes                    |
| 2                                     | LP_Signal_02     | Yes                    |
| 3                                     | LP_Signal_03     | Yes                    |
| 4                                     | LP_Signal_04     | Yes                    |
| 5                                     | LP_Signal_05     | Yes                    |
| 6                                     | LP_Signal_06     | Yes                    |
| 7                                     | LP_Signal_07     | Yes                    |
| 8                                     | LP_Signal_08     | Yes                    |
| 9                                     | LP_Signal_09     | Yes                    |
| 10                                    | LP_Signal_10     | Yes                    |
| 11                                    | LP_Signal_11     | Yes                    |
| 12                                    | LP_Signal_12     | Yes                    |
| 13                                    | LP_Signal_13     | Yes                    |
| 14                                    | LP_Signal_14     | Yes                    |
| 15                                    | LP_Signal_15     | Yes                    |
| 16                                    | LP_Signal_16     | Yes                    |
| 17                                    | LP_Signal_17     | Yes                    |
| 18                                    | LP_Signal_18     | Yes                    |
| 19                                    | LP_Signal_19     | Yes                    |
| 20                                    | LP_Signal_20     | Yes                    |
| 21                                    | LP_Signal_21     | No                     |
| 22                                    | LP_Signal_22     | Yes                    |
| 23                                    | LP_Signal_23     | No                     |
| 24                                    | LP_Signal_24     | Yes                    |
| 25                                    | LP_Signal_25     | Yes                    |
| 26                                    | LP_Signal_26     | Yes                    |
| 27                                    | LP_Signal_27     | Yes                    |
| 28                                    | LP_Signal_28     | Yes                    |
| 29                                    | LP_Signal_29     | Yes                    |
| 30                                    | LP_Signal_30     | Yes                    |
|                                       |                  | Detection Rate: 93.3 % |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_01  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 16   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5493MHz |                  |            |                 |                          |                          |                    |
| 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         | 59.2u           | -                        | -                        | 243.0m             |
| 2                               | 2                | 5M         | 94.5u           | 1.834m                   | -                        | 299.3m             |
| 3                               | 2                | 5M         | 95.4u           | 1.641m                   | -                        | 566.0m             |
| 4                               | 3                | 5M         | 59.5u           | 1.313m                   | 1.332m                   | 354.8m             |
| 5                               | 2                | 5M         | 62.1u           | 1.158m                   | -                        | 618.4m             |
| 6                               | 3                | 5M         | 73.9u           | 1.671m                   | 1.534m                   | 629.7m             |
| 7                               | 2                | 5M         | 50.4u           | 1.155m                   | -                        | 384.7m             |
| 8                               | 3                | 5M         | 62.7u           | 1.675m                   | 1.571m                   | 94.54m             |
| 9                               | 1                | 5M         | 52.4u           | -                        | -                        | 45.93m             |
| 10                              | 3                | 5M         | 55.9u           | 1.743m                   | 1.537m                   | 37.45m             |
| 11                              | 2                | 5M         | 62.1u           | 1.725m                   | -                        | 173.9m             |
| 12                              | 3                | 5M         | 65.1u           | 1.567m                   | 1.369m                   | 549.6m             |
| 13                              | 3                | 5M         | 80.3u           | 1.548m                   | 1.117m                   | 530.8m             |
| 14                              | 2                | 5M         | 85.5u           | 1.063m                   | -                        | 265.8m             |
| 15                              | 3                | 5M         | 54.7u           | 1.134m                   | 1.657m                   | 49.43m             |
| 16                              | 2                | 5M         | 85.8u           | 1.450m                   | -                        | 382.0m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_02  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 11   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5493MHz |                  |            |                 |                          |                          |                    |
| 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         | 77.4u           | 928.6u                   | 1.433m                   | 748.0m             |
| 2                               | 2                | 5M         | 76.8u           | 1.792m                   | -                        | 106.4m             |
| 3                               | 2                | 5M         | 80.6u           | 1.265m                   | -                        | 687.9m             |
| 4                               | 3                | 5M         | 91.4u           | 1.357m                   | 1.842m                   | 327.9m             |
| 5                               | 3                | 5M         | 90.0u           | 1.712m                   | 1.217m                   | 846.9m             |
| 6                               | 2                | 5M         | 64.2u           | 1.792m                   | -                        | 764.9m             |
| 7                               | 2                | 5M         | 97.3u           | 1.153m                   | -                        | 266.8m             |
| 8                               | 2                | 5M         | 52.9u           | 952.1u                   | -                        | 132.9m             |
| 9                               | 3                | 5M         | 95.0u           | 1.657m                   | 1.029m                   | 423.4m             |
| 10                              | 2                | 5M         | 87.7u           | 1.304m                   | -                        | 303.7m             |
| 11                              | 3                | 5M         | 69.8u           | 1.737m                   | 1.511m                   | 612.5m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_03  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 18   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5494MHz |                  |            |                 |                          |                          |                    |
| 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                | 5M         | 64.8u           | 1.186m                   | -                        | 75.79m             |
| 2                               | 3                | 5M         | 95.3u           | 1.039m                   | 1.151m                   | 354.7m             |
| 3                               | 1                | 5M         | 58.2u           | -                        | -                        | 145.6m             |
| 4                               | 2                | 5M         | 96.2u           | 1.328m                   | -                        | 408.6m             |
| 5                               | 1                | 5M         | 70.0u           | -                        | -                        | 571.7m             |
| 6                               | 1                | 5M         | 97.0u           | -                        | -                        | 4.469m             |
| 7                               | 2                | 5M         | 74.8u           | 1.904m                   | -                        | 112.1m             |
| 8                               | 2                | 5M         | 86.3u           | 1.847m                   | -                        | 19.29m             |
| 9                               | 1                | 5M         | 56.7u           | -                        | -                        | 317.3m             |
| 10                              | 2                | 5M         | 61.0u           | 956.0u                   | -                        | 142.0m             |
| 11                              | 2                | 5M         | 71.0u           | 935.0u                   | -                        | 251.8m             |
| 12                              | 1                | 5M         | 54.2u           | -                        | -                        | 150.7m             |
| 13                              | 3                | 5M         | 90.1u           | 1.385m                   | 1.143m                   | 630.6m             |
| 14                              | 2                | 5M         | 99.6u           | 1.522m                   | -                        | 405.1m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 15 | 2 | 5M | 67.1u | 1.741m | -      | 9.165m |
| 16 | 2 | 5M | 50.8u | 1.064m | -      | 487.1m |
| 17 | 2 | 5M | 78.9u | 1.002m | -      | 226.8m |
| 18 | 3 | 5M | 87.7u | 1.409m | 1.017m | 595.7m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_04  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 16   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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         | 58.3u           | 1.169m                   | 1.228m                   | 212.0m             |
| 2                               | 1                | 6M         | 67.9u           | -                        | -                        | 683.3m             |
| 3                               | 2                | 6M         | 76.5u           | 1.176m                   | -                        | 683.9m             |
| 4                               | 2                | 6M         | 54.8u           | 1.298m                   | -                        | 490.2m             |
| 5                               | 3                | 6M         | 79.2u           | 1.024m                   | 1.835m                   | 160.4m             |
| 6                               | 2                | 6M         | 89.3u           | 1.805m                   | -                        | 653.3m             |
| 7                               | 1                | 6M         | 77.2u           | -                        | -                        | 73.40m             |
| 8                               | 3                | 6M         | 89.4u           | 1.249m                   | 1.228m                   | 589.4m             |
| 9                               | 3                | 6M         | 97.7u           | 1.549m                   | 1.052m                   | 484.7m             |
| 10                              | 3                | 6M         | 99.5u           | 1.824m                   | 1.045m                   | 490.8m             |
| 11                              | 2                | 6M         | 62.4u           | 1.758m                   | -                        | 48.28m             |
| 12                              | 2                | 6M         | 99.1u           | 1.202m                   | -                        | 270.9m             |
| 13                              | 3                | 6M         | 92.6u           | 1.079m                   | 1.569m                   | 227.5m             |
| 14                              | 2                | 6M         | 87.4u           | 1.359m                   | -                        | 577.4m             |
| 15                              | 1                | 6M         | 81.1u           | -                        | -                        | 371.3m             |
| 16                              | 3                | 6M         | 50.5u           | 1.117m                   | 996.5u                   | 19.19m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_05  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 9    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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         | 60.5u           | -                        | -                        | 472.7m             |
| 2                               | 1                | 6M         | 80.1u           | -                        | -                        | 675.8m             |
| 3                               | 2                | 6M         | 66.3u           | 1.548m                   | -                        | 1.264              |
| 4                               | 2                | 6M         | 96.6u           | 1.803m                   | -                        | 1.141              |
| 5                               | 1                | 6M         | 81.9u           | -                        | -                        | 946.6m             |
| 6                               | 1                | 6M         | 80.8u           | -                        | -                        | 104.5m             |
| 7                               | 3                | 6M         | 55.8u           | 966.2u                   | 1.307m                   | 288.3m             |
| 8                               | 1                | 6M         | 61.4u           | -                        | -                        | 551.7m             |
| 9                               | 3                | 6M         | 88.4u           | 973.6u                   | 1.741m                   | 76.95m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_06  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 18   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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         | 78.8u           | 1.762m                   | -                        | 465.6m             |
| 2                               | 2                | 6M         | 52.8u           | 1.329m                   | -                        | 583.2m             |
| 3                               | 1                | 6M         | 59.6u           | -                        | -                        | 447.7m             |
| 4                               | 1                | 6M         | 70.0u           | -                        | -                        | 305.9m             |
| 5                               | 2                | 6M         | 64.5u           | 1.427m                   | -                        | 370.3m             |
| 6                               | 1                | 6M         | 94.0u           | -                        | -                        | 355.4m             |
| 7                               | 1                | 6M         | 98.4u           | -                        | -                        | 230.2m             |
| 8                               | 1                | 6M         | 98.8u           | -                        | -                        | 465.8m             |
| 9                               | 3                | 6M         | 93.1u           | 936.9u                   | 1.278m                   | 643.2m             |
| 10                              | 1                | 6M         | 79.3u           | -                        | -                        | 619.5m             |
| 11                              | 1                | 6M         | 96.8u           | -                        | -                        | 60.72m             |
| 12                              | 3                | 6M         | 96.8u           | 1.449m                   | 1.845m                   | 392.2m             |
| 13                              | 3                | 6M         | 62.4u           | 1.516m                   | 1.547m                   | 326.3m             |
| 14                              | 2                | 6M         | 79.7u           | 1.539m                   | -                        | 573.3m             |
| 15                              | 2                | 6M         | 83.8u           | 1.568m                   | -                        | 166.7m             |
| 16                              | 3                | 6M         | 65.1u           | 1.162m                   | 1.623m                   | 29.54m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 17 | 2 | 6M | 64.0u | 1.434m | -      | 440.0m |
| 18 | 3 | 6M | 95.5u | 1.227m | 1.583m | 339.8m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_07  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 10   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5496MHz |                  |            |                 |                          |                          |                    |
| 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         | 55.6u           | 1.308m                   | -                        | 946.0m             |
| 2                               | 2                | 7M         | 90.3u           | 1.109m                   | -                        | 586.0m             |
| 3                               | 3                | 7M         | 75.1u           | 1.179m                   | 1.124m                   | 427.1m             |
| 4                               | 3                | 7M         | 86.1u           | 1.371m                   | 1.270m                   | 375.9m             |
| 5                               | 2                | 7M         | 89.1u           | 1.058m                   | -                        | 615.5m             |
| 6                               | 2                | 7M         | 76.9u           | 1.774m                   | -                        | 247.3m             |
| 7                               | 2                | 7M         | 64.3u           | 1.929m                   | -                        | 1.055              |
| 8                               | 3                | 7M         | 61.7u           | 1.387m                   | 1.721m                   | 167.4m             |
| 9                               | 2                | 7M         | 95.7u           | 1.831m                   | -                        | 305.4m             |
| 10                              | 3                | 7M         | 84.7u           | 1.764m                   | 1.195m                   | 294.9m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_08  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5497MHz |                  |            |                 |                          |                          |                    |
| 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         | 53.0u           | 969.0u                   | -                        | 746.8m             |
| 2                               | 1                | 7M         | 63.4u           | -                        | -                        | 742.3m             |
| 3                               | 2                | 7M         | 50.2u           | 1.509m                   | -                        | 409.2m             |
| 4                               | 3                | 7M         | 60.1u           | 1.447m                   | 1.300m                   | 473.9m             |
| 5                               | 2                | 7M         | 80.0u           | 1.361m                   | -                        | 541.6m             |
| 6                               | 2                | 7M         | 54.0u           | 1.276m                   | -                        | 751.9m             |
| 7                               | 2                | 7M         | 86.4u           | 1.372m                   | -                        | 5.669m             |
| 8                               | 3                | 7M         | 67.1u           | 1.234m                   | 1.548m                   | 681.3m             |
| 9                               | 1                | 7M         | 83.2u           | -                        | -                        | 569.4m             |
| 10                              | 2                | 7M         | 89.6u           | 1.288m                   | -                        | 710.9m             |
| 11                              | 2                | 7M         | 68.4u           | 1.713m                   | -                        | 305.7m             |
| 12                              | 2                | 7M         | 98.4u           | 1.105m                   | -                        | 659.4m             |
| 13                              | 2                | 7M         | 53.8u           | 1.651m                   | -                        | 260.7m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 14 | 3 | 7M | 90.7u | 971.3u | 1.297m | 64.39m |
| 15 | 3 | 7M | 88.5u | 1.396m | 1.731m | 619.3m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_09  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 12   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5498MHz |                  |            |                 |                          |                          |                    |
| 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         | 80.8u           | 1.909m                   | -                        | 739.1m             |
| 2                               | 3                | 7M         | 72.8u           | 1.611m                   | 1.582m                   | 706.3m             |
| 3                               | 2                | 7M         | 90.5u           | 1.287m                   | -                        | 462.3m             |
| 4                               | 1                | 7M         | 63.9u           | -                        | -                        | 784.5m             |
| 5                               | 2                | 7M         | 88.9u           | 1.779m                   | -                        | 930.2m             |
| 6                               | 3                | 7M         | 62.5u           | 1.149m                   | 1.301m                   | 45.25m             |
| 7                               | 2                | 7M         | 80.7u           | 996.3u                   | -                        | 723.7m             |
| 8                               | 2                | 7M         | 53.8u           | 1.508m                   | -                        | 526.5m             |
| 9                               | 1                | 7M         | 60.9u           | -                        | -                        | 969.6m             |
| 10                              | 3                | 7M         | 70.9u           | 1.208m                   | 1.123m                   | 654.9m             |
| 11                              | 2                | 7M         | 60.0u           | 1.424m                   | -                        | 233.5m             |
| 12                              | 2                | 7M         | 80.6u           | 1.042m                   | -                        | 8.643m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_10  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 13   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5499MHz |                  |            |                 |                          |                          |                    |
| 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         | 61.5u           | 955.5u                   | -                        | 640.4m             |
| 2                               | 1                | 9M         | 92.5u           | -                        | -                        | 393.8m             |
| 3                               | 3                | 9M         | 71.1u           | 1.724m                   | 1.483m                   | 227.5m             |
| 4                               | 2                | 9M         | 79.5u           | 1.035m                   | -                        | 625.6m             |
| 5                               | 2                | 9M         | 75.3u           | 1.324m                   | -                        | 302.7m             |
| 6                               | 3                | 9M         | 71.1u           | 1.201m                   | 1.880m                   | 210.6m             |
| 7                               | 2                | 9M         | 83.2u           | 1.845m                   | -                        | 576.6m             |
| 8                               | 2                | 9M         | 81.1u           | 1.333m                   | -                        | 524.0m             |
| 9                               | 2                | 9M         | 97.7u           | 1.050m                   | -                        | 855.4m             |
| 10                              | 2                | 9M         | 95.7u           | 1.224m                   | -                        | 597.8m             |
| 11                              | 2                | 9M         | 53.5u           | 1.334m                   | -                        | 874.0m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 12 | 3 | 9M | 70.8u | 1.735m | 1.020m | 510.2m |
| 13 | 2 | 9M | 95.7u | 1.535m | -      | 870.2m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_11  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 13   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5500MHz |                  |            |                 |                          |                          |                    |
| 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         | 57.9u           | 1.841m                   | -                        | 422.7m             |
| 2                               | 1                | 9M         | 69.6u           | -                        | -                        | 132.7m             |
| 3                               | 3                | 9M         | 82.1u           | 1.128m                   | 1.462m                   | 793.5m             |
| 4                               | 2                | 9M         | 93.4u           | 1.042m                   | -                        | 520.9m             |
| 5                               | 1                | 9M         | 64.5u           | -                        | -                        | 298.1m             |
| 6                               | 3                | 9M         | 90.7u           | 1.633m                   | 1.340m                   | 663.6m             |
| 7                               | 2                | 9M         | 59.5u           | 1.173m                   | -                        | 23.35m             |
| 8                               | 2                | 9M         | 98.2u           | 1.173m                   | -                        | 471.2m             |
| 9                               | 3                | 9M         | 89.6u           | 1.013m                   | 999.4u                   | 847.1m             |
| 10                              | 2                | 9M         | 50.2u           | 1.240m                   | -                        | 78.02m             |
| 11                              | 1                | 9M         | 68.5u           | -                        | -                        | 52.96m             |
| 12                              | 3                | 9M         | 97.3u           | 1.125m                   | 1.776m                   | 279.1m             |
| 13                              | 3                | 9M         | 72.8u           | 1.805m                   | 1.181m                   | 911.6m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_12  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5501MHz |                  |            |                 |                          |                          |                    |
| 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                | 9M         | 89.4u           | -                        | -                        | 338.0m             |
| 2                               | 3                | 9M         | 68.3u           | 1.753m                   | 1.438m                   | 613.1m             |
| 3                               | 2                | 9M         | 63.6u           | 1.362m                   | -                        | 303.8m             |
| 4                               | 2                | 9M         | 80.5u           | 993.5u                   | -                        | 595.4m             |
| 5                               | 2                | 9M         | 73.6u           | 1.540m                   | -                        | 78.46m             |
| 6                               | 1                | 9M         | 87.3u           | -                        | -                        | 160.7m             |
| 7                               | 2                | 9M         | 74.5u           | 1.600m                   | -                        | 607.5m             |
| 8                               | 2                | 9M         | 77.4u           | 1.693m                   | -                        | 479.2m             |
| 9                               | 2                | 9M         | 78.4u           | 989.6u                   | -                        | 115.9m             |
| 10                              | 2                | 9M         | 93.1u           | 1.366m                   | -                        | 724.2m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 11 | 1 | 9M | 84.2u | -      | -      | 81.00m |
| 12 | 1 | 9M | 74.9u | -      | -      | 557.2m |
| 13 | 2 | 9M | 81.2u | 1.048m | -      | 738.1m |
| 14 | 2 | 9M | 55.9u | 1.240m | -      | 186.3m |
| 15 | 3 | 9M | 76.3u | 1.412m | 1.545m | 715.8m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_13<br>Number of Bursts in Trial: 10<br>Chrip Center Frequency: 5499MHz |                  |            |                 |                          |                          |                    |
|------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 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                | 10M        | 81.8u           | 1.808m                   | 1.698m                   | 72.39m             |
| 2                                                                                                                                  | 3                | 10M        | 76.6u           | 1.509m                   | 1.487m                   | 279.1m             |
| 3                                                                                                                                  | 1                | 10M        | 97.8u           | -                        | -                        | 1.124              |
| 4                                                                                                                                  | 3                | 10M        | 91.4u           | 1.843m                   | 1.006m                   | 24.01m             |
| 5                                                                                                                                  | 2                | 10M        | 74.5u           | 1.380m                   | -                        | 1.025              |
| 6                                                                                                                                  | 2                | 10M        | 59.7u           | 1.379m                   | -                        | 870.2m             |
| 7                                                                                                                                  | 2                | 10M        | 79.5u           | 1.094m                   | -                        | 565.8m             |
| 8                                                                                                                                  | 2                | 10M        | 86.0u           | 1.148m                   | -                        | 702.2m             |
| 9                                                                                                                                  | 2                | 10M        | 61.7u           | 1.400m                   | -                        | 1.076              |
| 10                                                                                                                                 | 3                | 10M        | 87.5u           | 1.460m                   | 1.499m                   | 297.4m             |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_14<br>Number of Bursts in Trial: 18<br>Chrip Center Frequency: 5498MHz |                  |            |                 |                          |                          |                    |
|------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 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                | 10M        | 54.2u           | 1.942m                   | 1.494m                   | 592.2m             |
| 2                                                                                                                                  | 3                | 10M        | 71.2u           | 1.558m                   | 1.925m                   | 239.4m             |
| 3                                                                                                                                  | 2                | 10M        | 96.1u           | 1.640m                   | -                        | 300.6m             |
| 4                                                                                                                                  | 3                | 10M        | 90.5u           | 1.811m                   | 1.633m                   | 351.7m             |
| 5                                                                                                                                  | 2                | 10M        | 76.9u           | 1.123m                   | -                        | 637.0m             |
| 6                                                                                                                                  | 3                | 10M        | 50.0u           | 1.335m                   | 1.347m                   | 297.1m             |
| 7                                                                                                                                  | 1                | 10M        | 75.1u           | -                        | -                        | 128.3m             |
| 8                                                                                                                                  | 1                | 10M        | 67.8u           | -                        | -                        | 292.2m             |
| 9                                                                                                                                  | 2                | 10M        | 88.2u           | 1.658m                   | -                        | 55.83m             |
| 10                                                                                                                                 | 2                | 10M        | 52.3u           | 1.229m                   | -                        | 382.0m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 11 | 1 | 10M | 64.4u | -      | -      | 649.6m |
| 12 | 2 | 10M | 80.0u | 1.813m | -      | 186.8m |
| 13 | 3 | 10M | 71.2u | 1.625m | 1.030m | 289.9m |
| 14 | 3 | 10M | 52.9u | 1.884m | 1.728m | 105.0m |
| 15 | 3 | 10M | 72.4u | 932.6u | 1.559m | 96.61m |
| 16 | 2 | 10M | 74.9u | 1.418m | -      | 493.8m |
| 17 | 1 | 10M | 76.4u | -      | -      | 528.7m |
| 18 | 2 | 10M | 62.3u | 1.001m | -      | 468.6m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_15  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 9    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5502MHz |                  |            |                 |                          |                          |                    |
| 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                | 10M        | 71.0u           | 1.700m                   | -                        | 593.5m             |
| 2                               | 2                | 10M        | 88.3u           | 1.451m                   | -                        | 88.29m             |
| 3                               | 1                | 10M        | 85.0u           | -                        | -                        | 525.7m             |
| 4                               | 2                | 10M        | 79.7u           | 1.341m                   | -                        | 774.4m             |
| 5                               | 3                | 10M        | 79.3u           | 1.573m                   | 921.7u                   | 729.8m             |
| 6                               | 1                | 10M        | 66.1u           | -                        | -                        | 928.6m             |
| 7                               | 2                | 10M        | 54.9u           | 1.834m                   | -                        | 366.6m             |
| 8                               | 3                | 10M        | 55.2u           | 1.238m                   | 1.195m                   | 1.308              |
| 9                               | 2                | 10M        | 62.7u           | 1.728m                   | -                        | 250.5m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_16  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 14   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5503MHz |                  |            |                 |                          |                          |                    |
| 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                | 13M        | 89.3u           | 1.226m                   | -                        | 698.6m             |
| 2                               | 2                | 13M        | 62.6u           | 1.024m                   | -                        | 618.9m             |
| 3                               | 2                | 13M        | 92.3u           | 1.201m                   | -                        | 707.5m             |
| 4                               | 1                | 13M        | 59.6u           | -                        | -                        | 50.00m             |
| 5                               | 1                | 13M        | 96.4u           | -                        | -                        | 8.448m             |
| 6                               | 3                | 13M        | 69.5u           | 1.319m                   | 1.753m                   | 62.15m             |
| 7                               | 2                | 13M        | 89.0u           | 1.502m                   | -                        | 190.0m             |
| 8                               | 1                | 13M        | 70.1u           | -                        | -                        | 855.4m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 9  | 2 | 13M | 82.7u | 1.528m | -      | 481.2m |
| 10 | 1 | 13M | 84.3u | -      | -      | 770.9m |
| 11 | 3 | 13M | 60.4u | 1.218m | 1.468m | 138.4m |
| 12 | 3 | 13M | 53.3u | 1.553m | 1.265m | 163.6m |
| 13 | 2 | 13M | 56.1u | 1.623m | -      | 373.4m |
| 14 | 3 | 13M | 58.9u | 1.330m | 1.283m | 306.1m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_17<br>Number of Bursts in Trial: 10<br>Chrip Center Frequency: 5496MHz |                  |            |                 |                          |                          |                    |
|------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 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        | 67.5u           | -                        | -                        | 502.0m             |
| 2                                                                                                                                  | 1                | 13M        | 88.4u           | -                        | -                        | 240.1m             |
| 3                                                                                                                                  | 1                | 13M        | 65.8u           | -                        | -                        | 262.9m             |
| 4                                                                                                                                  | 2                | 13M        | 62.4u           | 1.503m                   | -                        | 341.2m             |
| 5                                                                                                                                  | 1                | 13M        | 95.6u           | -                        | -                        | 958.2m             |
| 6                                                                                                                                  | 3                | 13M        | 62.0u           | 1.724m                   | 1.096m                   | 947.7m             |
| 7                                                                                                                                  | 1                | 13M        | 52.1u           | -                        | -                        | 612.1m             |
| 8                                                                                                                                  | 2                | 13M        | 50.7u           | 1.853m                   | -                        | 1.171              |
| 9                                                                                                                                  | 2                | 13M        | 88.5u           | 1.693m                   | -                        | 992.4m             |
| 10                                                                                                                                 | 2                | 13M        | 51.3u           | 1.595m                   | -                        | 447.5m             |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_18<br>Number of Bursts in Trial: 12<br>Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
|------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 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                | 13M        | 71.5u           | 982.5u                   | -                        | 86.36m             |
| 2                                                                                                                                  | 1                | 13M        | 89.8u           | -                        | -                        | 993.6m             |
| 3                                                                                                                                  | 1                | 13M        | 83.2u           | -                        | -                        | 30.83m             |
| 4                                                                                                                                  | 1                | 13M        | 59.2u           | -                        | -                        | 837.0m             |
| 5                                                                                                                                  | 1                | 13M        | 68.7u           | -                        | -                        | 229.0m             |
| 6                                                                                                                                  | 2                | 13M        | 96.4u           | 1.547m                   | -                        | 543.5m             |
| 7                                                                                                                                  | 2                | 13M        | 84.2u           | 1.813m                   | -                        | 108.2m             |
| 8                                                                                                                                  | 1                | 13M        | 61.5u           | -                        | -                        | 194.1m             |
| 9                                                                                                                                  | 2                | 13M        | 87.9u           | 1.451m                   | -                        | 603.2m             |

|    |   |     |       |        |   |        |
|----|---|-----|-------|--------|---|--------|
| 10 | 1 | 13M | 94.3u | -      | - | 285.9m |
| 11 | 2 | 13M | 61.6u | 1.018m | - | 423.4m |
| 12 | 2 | 13M | 55.8u | 1.245m | - | 287.7m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_19  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 16   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5504MHz |                  |            |                 |                          |                          |                    |
| 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        | 53.2u           | 1.577m                   | -                        | 187.2m             |
| 2                               | 2                | 18M        | 75.8u           | 1.649m                   | -                        | 374.2m             |
| 3                               | 1                | 13M        | 67.8u           | -                        | -                        | 344.8m             |
| 4                               | 3                | 18M        | 83.2u           | 1.471m                   | 1.578m                   | 510.7m             |
| 5                               | 1                | 15M        | 51.5u           | -                        | -                        | 342.1m             |
| 6                               | 2                | 15M        | 88.6u           | 1.773m                   | -                        | 505.7m             |
| 7                               | 2                | 15M        | 54.4u           | 1.276m                   | -                        | 99.43m             |
| 8                               | 2                | 15M        | 75.2u           | 1.702m                   | -                        | 532.3m             |
| 9                               | 3                | 15M        | 86.3u           | 1.467m                   | 1.799m                   | 570.2m             |
| 10                              | 2                | 15M        | 80.5u           | 1.836m                   | -                        | 219.9m             |
| 11                              | 1                | 15M        | 65.8u           | -                        | -                        | 439.1m             |
| 12                              | 1                | 15M        | 74.8u           | -                        | -                        | 155.7m             |
| 13                              | 2                | 15M        | 50.9u           | 1.797m                   | -                        | 466.0m             |
| 14                              | 1                | 15M        | 98.0u           | -                        | -                        | 241.0m             |
| 15                              | 1                | 15M        | 64.1u           | -                        | -                        | 747.6m             |
| 16                              | 3                | 15M        | 51.3u           | 1.279m                   | 1.374m                   | 54.36m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_20  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 8    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5505MHz |                  |            |                 |                          |                          |                    |
| 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                | 15M        | 86.3u           | 1.743m                   | 985.7u                   | 297.0m             |
| 2                               | 1                | 15M        | 66.0u           | -                        | -                        | 1.473              |
| 3                               | 3                | 15M        | 67.9u           | 1.531m                   | 1.717m                   | 438.4m             |
| 4                               | 3                | 15M        | 86.6u           | 1.433m                   | 1.491m                   | 650.2m             |
| 5                               | 2                | 15M        | 59.3u           | 1.648m                   | -                        | 773.9m             |
| 6                               | 2                | 15M        | 60.7u           | 1.384m                   | -                        | 278.3m             |

|   |   |     |       |        |   |        |
|---|---|-----|-------|--------|---|--------|
| 7 | 2 | 15M | 58.5u | 1.114m | - | 1.321  |
| 8 | 2 | 15M | 88.9u | 920.1u | - | 360.9m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_21  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 10   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5527MHz |                  |            |                 |                          |                          |                    |
| 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        | 94.0u           | 1.223m                   | -                        | 602.5m             |
| 2                               | 1                | 15M        | 72.8u           | -                        | -                        | 973.3m             |
| 3                               | 1                | 15M        | 53.8u           | -                        | -                        | 901.9m             |
| 4                               | 2                | 15M        | 62.4u           | 1.292m                   | -                        | 937.5m             |
| 5                               | 2                | 15M        | 78.8u           | 1.014m                   | -                        | 731.3m             |
| 6                               | 2                | 15M        | 93.5u           | 1.149m                   | -                        | 20.15m             |
| 7                               | 1                | 15M        | 61.8u           | -                        | -                        | 620.4m             |
| 8                               | 3                | 15M        | 82.0u           | 1.788m                   | 1.001m                   | 82.34m             |
| 9                               | 1                | 15M        | 63.6u           | -                        | -                        | 891.7m             |
| 10                              | 2                | 15M        | 76.7u           | 1.229m                   | -                        | 49.96m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_22  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 11   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5527MHz |                  |            |                 |                          |                          |                    |
| 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        | 74.8u           | 1.336m                   | -                        | 732.2m             |
| 2                               | 2                | 17M        | 64.1u           | 1.818m                   | -                        | 719.3m             |
| 3                               | 3                | 17M        | 98.6u           | 1.137m                   | 1.023m                   | 239.8m             |
| 4                               | 3                | 17M        | 65.3u           | 1.927m                   | 1.272m                   | 816.3m             |
| 5                               | 3                | 17M        | 93.8u           | 956.2u                   | 1.471m                   | 59.23m             |
| 6                               | 2                | 17M        | 90.7u           | 1.479m                   | -                        | 258.2m             |
| 7                               | 3                | 17M        | 88.4u           | 1.449m                   | 1.878m                   | 326.8m             |
| 8                               | 1                | 17M        | 65.2u           | -                        | -                        | 922.6m             |
| 9                               | 3                | 17M        | 80.1u           | 1.304m                   | 1.086m                   | 879.3m             |
| 10                              | 1                | 17M        | 98.6u           | -                        | -                        | 108.0m             |
| 11                              | 1                | 17M        | 90.8u           | -                        | -                        | 26.15m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_23  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5526MHz |                  |            |                 |                          |                          |                    |
| 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                | 17M        | 56.6u           | 1.081m                   | 1.442m                   | 264.5m             |
| 2                               | 2                | 17M        | 77.0u           | 1.479m                   | -                        | 411.6m             |
| 3                               | 1                | 17M        | 64.7u           | -                        | -                        | 502.4m             |
| 4                               | 2                | 17M        | 66.3u           | 1.533m                   | -                        | 128.2m             |
| 5                               | 2                | 17M        | 66.5u           | 1.654m                   | -                        | 32.33m             |
| 6                               | 2                | 17M        | 53.9u           | 1.723m                   | -                        | 368.5m             |
| 7                               | 2                | 17M        | 95.4u           | 1.678m                   | -                        | 502.6m             |
| 8                               | 2                | 17M        | 79.6u           | 1.481m                   | -                        | 375.6m             |
| 9                               | 2                | 17M        | 94.7u           | 1.774m                   | -                        | 335.2m             |
| 10                              | 3                | 17M        | 86.7u           | 1.256m                   | 1.147m                   | 567.5m             |
| 11                              | 2                | 17M        | 65.2u           | 1.373m                   | -                        | 55.52m             |
| 12                              | 3                | 17M        | 53.6u           | 1.336m                   | 1.086m                   | 350.4m             |
| 13                              | 1                | 17M        | 93.6u           | -                        | -                        | 549.5m             |
| 14                              | 3                | 17M        | 99.9u           | 1.866m                   | 961.1u                   | 222.0m             |
| 15                              | 2                | 17M        | 98.7u           | 1.242m                   | -                        | 603.9m             |
| 16                              | 3                | 17M        | 99.5u           | 992.5u                   | 1.138m                   | 514.9m             |
| 17                              | 2                | 17M        | 88.7u           | 1.906m                   | -                        | 388.1m             |
| 18                              | 2                | 17M        | 98.4u           | 1.185m                   | -                        | 429.7m             |
| 19                              | 2                | 17M        | 84.8u           | 1.718m                   | -                        | 344.7m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_24  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 12   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5525MHz |                  |            |                 |                          |                          |                    |
| 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        | 93.4u           | 1.791m                   | -                        | 467.1m             |
| 2                               | 2                | 17M        | 53.0u           | 1.331m                   | -                        | 100.2m             |
| 3                               | 2                | 17M        | 63.1u           | 1.017m                   | -                        | 444.6m             |
| 4                               | 2                | 17M        | 66.4u           | 1.835m                   | -                        | 765.4m             |
| 5                               | 2                | 17M        | 54.8u           | 1.828m                   | -                        | 810.6m             |
| 6                               | 3                | 17M        | 99.5u           | 974.5u                   | 1.850m                   | 833.5m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 7  | 1 | 17M | 94.7u | -      | -      | 898.3m |
| 8  | 3 | 17M | 51.2u | 1.184m | 1.832m | 783.4m |
| 9  | 3 | 17M | 87.4u | 1.279m | 1.661m | 145.4m |
| 10 | 3 | 17M | 60.8u | 1.353m | 1.908m | 109.4m |
| 11 | 2 | 17M | 81.3u | 1.689m | -      | 467.0m |
| 12 | 2 | 17M | 65.6u | 957.4u | -      | 612.4m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_25<br>Number of Bursts in Trial: 14<br>Chrip Center Frequency: 5525MHz |                  |            |                 |                          |                          |                    |
|------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 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        | 57.4u           | 1.572m                   | -                        | 817.2m             |
| 2                                                                                                                                  | 3                | 19M        | 74.9u           | 1.651m                   | 1.525m                   | 728.1m             |
| 3                                                                                                                                  | 2                | 19M        | 61.0u           | 1.735m                   | -                        | 456.8m             |
| 4                                                                                                                                  | 1                | 19M        | 51.0u           | -                        | -                        | 705.2m             |
| 5                                                                                                                                  | 1                | 19M        | 70.9u           | -                        | -                        | 416.2m             |
| 6                                                                                                                                  | 1                | 19M        | 74.4u           | -                        | -                        | 137.3m             |
| 7                                                                                                                                  | 2                | 19M        | 96.1u           | 1.248m                   | -                        | 252.5m             |
| 8                                                                                                                                  | 2                | 19M        | 62.4u           | 1.425m                   | -                        | 346.7m             |
| 9                                                                                                                                  | 3                | 19M        | 83.2u           | 1.202m                   | 1.002m                   | 4.653m             |
| 10                                                                                                                                 | 2                | 19M        | 75.3u           | 1.397m                   | -                        | 392.0m             |
| 11                                                                                                                                 | 2                | 19M        | 59.8u           | 1.393m                   | -                        | 455.0m             |
| 12                                                                                                                                 | 2                | 19M        | 59.2u           | 1.897m                   | -                        | 349.0m             |
| 13                                                                                                                                 | 2                | 19M        | 84.7u           | 1.796m                   | -                        | 755.0m             |
| 14                                                                                                                                 | 2                | 19M        | 61.9u           | 1.149m                   | -                        | 413.6m             |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_26<br>Number of Bursts in Trial: 14<br>Chrip Center Frequency: 5525MHz |                  |            |                 |                          |                          |                    |
|------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| 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        | 71.7u           | 1.014m                   | -                        | 296.4m             |
| 2                                                                                                                                  | 1                | 19M        | 51.3u           | -                        | -                        | 48.96m             |
| 3                                                                                                                                  | 1                | 19M        | 54.9u           | -                        | -                        | 138.5m             |
| 4                                                                                                                                  | 1                | 19M        | 93.5u           | -                        | -                        | 839.3m             |
| 5                                                                                                                                  | 2                | 19M        | 96.3u           | 1.129m                   | -                        | 808.4m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 6  | 3 | 19M | 54.8u | 1.325m | 1.878m | 449.8m |
| 7  | 2 | 19M | 70.4u | 1.073m | -      | 123.0m |
| 8  | 1 | 19M | 88.9u | -      | -      | 76.81m |
| 9  | 2 | 19M | 71.3u | 1.818m | -      | 383.6m |
| 10 | 2 | 19M | 98.0u | 1.652m | -      | 218.1m |
| 11 | 1 | 19M | 93.4u | -      | -      | 32.10m |
| 12 | 1 | 19M | 87.3u | -      | -      | 559.1m |
| 13 | 3 | 19M | 74.2u | 1.818m | 1.191m | 83.98m |
| 14 | 2 | 19M | 50.0u | 1.298m | -      | 378.9m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_27  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 14   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5524MHz |                  |            |                 |                          |                          |                    |
| 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                | 19M        | 96.6u           | -                        | -                        | 363.1m             |
| 2                               | 1                | 19M        | 51.9u           | -                        | -                        | 739.2m             |
| 3                               | 1                | 19M        | 76.1u           | -                        | -                        | 386.4m             |
| 4                               | 2                | 19M        | 73.2u           | 1.121m                   | -                        | 703.9m             |
| 5                               | 2                | 19M        | 63.6u           | 1.058m                   | -                        | 622.0m             |
| 6                               | 1                | 19M        | 79.6u           | -                        | -                        | 34.99m             |
| 7                               | 3                | 19M        | 82.5u           | 1.213m                   | 1.864m                   | 794.1m             |
| 8                               | 3                | 19M        | 53.7u           | 1.356m                   | 1.081m                   | 215.9m             |
| 9                               | 1                | 19M        | 80.9u           | -                        | -                        | 611.8m             |
| 10                              | 2                | 19M        | 95.4u           | 1.890m                   | -                        | 620.4m             |
| 11                              | 2                | 19M        | 50.1u           | 1.778m                   | -                        | 549.3m             |
| 12                              | 1                | 19M        | 78.5u           | -                        | -                        | 569.2m             |
| 13                              | 2                | 19M        | 63.2u           | 1.648m                   | -                        | 480.1m             |
| 14                              | 2                | 19M        | 65.0u           | 965.0u                   | -                        | 762.0m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_28  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5523MHz |                  |            |                 |                          |                          |                    |
| 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                | 20M        | 63.9u           | -                        | -                        | 77.33m             |
| 2                               | 2                | 20M        | 94.7u           | 1.807m                   | -                        | 47.69m             |
| 3                               | 2                | 20M        | 55.2u           | 1.653m                   | -                        | 235.8m             |
| 4                               | 1                | 20M        | 88.6u           | -                        | -                        | 734.4m             |
| 5                               | 3                | 20M        | 58.9u           | 1.448m                   | 1.576m                   | 594.5m             |
| 6                               | 3                | 20M        | 80.2u           | 1.051m                   | 1.328m                   | 738.1m             |
| 7                               | 2                | 20M        | 51.8u           | 1.771m                   | -                        | 610.0m             |
| 8                               | 1                | 20M        | 58.2u           | -                        | -                        | 187.6m             |
| 9                               | 3                | 20M        | 51.5u           | 1.442m                   | 1.642m                   | 91.17m             |
| 10                              | 2                | 20M        | 54.6u           | 1.066m                   | -                        | 128.0m             |
| 11                              | 3                | 20M        | 92.5u           | 1.718m                   | 1.207m                   | 337.4m             |
| 12                              | 3                | 20M        | 88.1u           | 1.794m                   | 1.583m                   | 438.5m             |
| 13                              | 2                | 20M        | 63.5u           | 1.643m                   | -                        | 214.3m             |
| 14                              | 2                | 20M        | 73.1u           | 959.9u                   | -                        | 235.5m             |
| 15                              | 1                | 20M        | 71.4u           | -                        | -                        | 509.1m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_29  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 20   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5522MHz |                  |            |                 |                          |                          |                    |
| 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                | 20M        | 63.1u           | 1.352m                   | -                        | 165.6m             |
| 2                               | 2                | 20M        | 58.9u           | 1.458m                   | -                        | 231.2m             |
| 3                               | 2                | 20M        | 77.9u           | 1.812m                   | -                        | 578.2m             |
| 4                               | 2                | 20M        | 55.4u           | 1.834m                   | -                        | 493.0m             |
| 5                               | 3                | 20M        | 93.5u           | 1.337m                   | 1.895m                   | 207.5m             |
| 6                               | 2                | 20M        | 92.8u           | 1.212m                   | -                        | 161.6m             |
| 7                               | 3                | 20M        | 60.2u           | 1.500m                   | 1.299m                   | 450.6m             |
| 8                               | 3                | 20M        | 92.9u           | 980.1u                   | 1.224m                   | 70.72m             |
| 9                               | 3                | 20M        | 68.5u           | 1.737m                   | 1.169m                   | 263.0m             |
| 10                              | 2                | 20M        | 85.6u           | 967.4u                   | -                        | 128.5m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 11 | 2 | 20M | 85.4u | 1.165m | -      | 495.9m |
| 12 | 2 | 20M | 68.2u | 1.498m | -      | 88.26m |
| 13 | 2 | 20M | 66.6u | 1.769m | -      | 10.88m |
| 14 | 3 | 20M | 56.7u | 1.517m | 1.056m | 393.2m |
| 15 | 1 | 20M | 61.9u | -      | -      | 488.3m |
| 16 | 3 | 20M | 92.9u | 1.185m | 1.163m | 309.7m |
| 17 | 2 | 20M | 59.6u | 1.139m | -      | 243.6m |
| 18 | 3 | 20M | 71.4u | 1.337m | 1.026m | 381.3m |
| 19 | 3 | 20M | 66.5u | 1.886m | 1.669m | 75.38m |
| 20 | 1 | 20M | 99.2u | -      | -      | 205.0m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_30  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 13   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5521MHz |                  |            |                 |                          |                          |                    |
| 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        | 99.7u           | 1.511m                   | 1.864m                   | 57.55m             |
| 2                               | 2                | 20M        | 62.6u           | 1.651m                   | -                        | 208.8m             |
| 3                               | 2                | 20M        | 78.6u           | 1.897m                   | -                        | 188.5m             |
| 4                               | 3                | 20M        | 92.7u           | 1.075m                   | 1.701m                   | 713.1m             |
| 5                               | 2                | 20M        | 84.2u           | 1.551m                   | -                        | 875.0m             |
| 6                               | 2                | 20M        | 71.6u           | 1.165m                   | -                        | 311.7m             |
| 7                               | 1                | 20M        | 67.9u           | -                        | -                        | 735.6m             |
| 8                               | 3                | 20M        | 54.0u           | 1.098m                   | 1.873m                   | 138.9m             |
| 9                               | 1                | 20M        | 82.3u           | -                        | -                        | 262.2m             |
| 10                              | 2                | 20M        | 63.4u           | 1.368m                   | -                        | 14.73m             |
| 11                              | 2                | 20M        | 64.4u           | 1.845m                   | -                        | 637.0m             |
| 12                              | 2                | 20M        | 90.9u           | 1.294m                   | -                        | 356.2m             |
| 13                              | 1                | 20M        | 96.9u           | -                        | -                        | 536.0m             |

| 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 %               |                  |                 |         |           |

| Type 6 Radar Statistical Performances |                                 |                         |
|---------------------------------------|---------------------------------|-------------------------|
| Trial #                               | Hopping Frequency Sequence Name | Detection               |
| 1                                     | HOP_FREQ_SEQ_01                 | Yes                     |
| 2                                     | HOP_FREQ_SEQ_02                 | Yes                     |
| 3                                     | HOP_FREQ_SEQ_03                 | Yes                     |
| 4                                     | HOP_FREQ_SEQ_04                 | Yes                     |
| 5                                     | HOP_FREQ_SEQ_05                 | Yes                     |
| 6                                     | HOP_FREQ_SEQ_06                 | Yes                     |
| 7                                     | HOP_FREQ_SEQ_07                 | Yes                     |
| 8                                     | HOP_FREQ_SEQ_08                 | Yes                     |
| 9                                     | HOP_FREQ_SEQ_09                 | Yes                     |
| 10                                    | HOP_FREQ_SEQ_10                 | Yes                     |
| 11                                    | HOP_FREQ_SEQ_11                 | Yes                     |
| 12                                    | HOP_FREQ_SEQ_12                 | Yes                     |
| 13                                    | HOP_FREQ_SEQ_13                 | Yes                     |
| 14                                    | HOP_FREQ_SEQ_14                 | Yes                     |
| 15                                    | HOP_FREQ_SEQ_15                 | Yes                     |
| 16                                    | HOP_FREQ_SEQ_16                 | Yes                     |
| 17                                    | HOP_FREQ_SEQ_17                 | Yes                     |
| 18                                    | HOP_FREQ_SEQ_18                 | Yes                     |
| 19                                    | HOP_FREQ_SEQ_19                 | Yes                     |
| 20                                    | HOP_FREQ_SEQ_20                 | Yes                     |
| 21                                    | HOP_FREQ_SEQ_21                 | Yes                     |
| 22                                    | HOP_FREQ_SEQ_22                 | Yes                     |
| 23                                    | HOP_FREQ_SEQ_23                 | Yes                     |
| 24                                    | HOP_FREQ_SEQ_24                 | Yes                     |
| 25                                    | HOP_FREQ_SEQ_25                 | Yes                     |
| 26                                    | HOP_FREQ_SEQ_26                 | Yes                     |
| 27                                    | HOP_FREQ_SEQ_27                 | Yes                     |
| 28                                    | HOP_FREQ_SEQ_28                 | Yes                     |
| 29                                    | HOP_FREQ_SEQ_29                 | Yes                     |
| 30                                    | HOP_FREQ_SEQ_30                 | Yes                     |
|                                       |                                 | Detection Rate: 100.0 % |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.661G            | 2    | 5.682G            | 3    | 5.347G            | 4    | 5.275G            |
| 5                                                | 5.582G            | 6    | 5.334G            | 7    | 5.691G            | 8    | 5.453G            |
| 9                                                | 5.693G            | 10   | 5.601G            | 11   | 5.713G            | 12   | 5.585G            |
| 13                                               | 5.341G            | 14   | 5.511G            | 15   | 5.445G            | 16   | 5.670G            |
| 17                                               | 5.666G            | 18   | 5.296G            | 19   | 5.465G            | 20   | 5.679G            |
| 21                                               | 5.256G            | 22   | 5.714G            | 23   | 5.494G            | 24   | 5.454G            |
| 25                                               | 5.317G            | 26   | 5.290G            | 27   | 5.376G            | 28   | 5.612G            |
| 29                                               | 5.648G            | 30   | 5.439G            | 31   | 5.474G            | 32   | 5.563G            |
| 33                                               | 5.416G            | 34   | 5.721G            | 35   | 5.351G            | 36   | 5.668G            |
| 37                                               | 5.435G            | 38   | 5.440G            | 39   | 5.664G            | 40   | 5.369G            |
| 41                                               | 5.600G            | 42   | 5.292G            | 43   | 5.534G            | 44   | 5.708G            |
| 45                                               | 5.624G            | 46   | 5.537G            | 47   | 5.652G            | 48   | 5.655G            |
| 49                                               | 5.374G            | 50   | 5.336G            | 51   | 5.643G            | 52   | 5.437G            |
| 53                                               | 5.533G            | 54   | 5.482G            | 55   | 5.285G            | 56   | 5.443G            |
| 57                                               | 5.501G            | 58   | 5.547G            | 59   | 5.274G            | 60   | 5.650G            |
| 61                                               | 5.683G            | 62   | 5.615G            | 63   | 5.280G            | 64   | 5.469G            |
| 65                                               | 5.628G            | 66   | 5.639G            | 67   | 5.426G            | 68   | 5.379G            |
| 69                                               | 5.393G            | 70   | 5.479G            | 71   | 5.706G            | 72   | 5.604G            |
| 73                                               | 5.315G            | 74   | 5.605G            | 75   | 5.371G            | 76   | 5.409G            |
| 77                                               | 5.282G            | 78   | 5.572G            | 79   | 5.333G            | 80   | 5.272G            |
| 81                                               | 5.645G            | 82   | 5.588G            | 83   | 5.402G            | 84   | 5.399G            |
| 85                                               | 5.442G            | 86   | 5.258G            | 87   | 5.673G            | 88   | 5.575G            |
| 89                                               | 5.309G            | 90   | 5.570G            | 91   | 5.313G            | 92   | 5.701G            |
| 93                                               | 5.678G            | 94   | 5.510G            | 95   | 5.622G            | 96   | 5.580G            |
| 97                                               | 5.700G            | 98   | 5.250G            | 99   | 5.456G            | 100  | 5.633G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.414G            | 2    | 5.439G            | 3    | 5.282G            | 4    | 5.592G            |
| 5                                                | 5.714G            | 6    | 5.570G            | 7    | 5.685G            | 8    | 5.466G            |
| 9                                                | 5.529G            | 10   | 5.637G            | 11   | 5.396G            | 12   | 5.708G            |
| 13                                               | 5.298G            | 14   | 5.361G            | 15   | 5.663G            | 16   | 5.651G            |
| 17                                               | 5.601G            | 18   | 5.690G            | 19   | 5.522G            | 20   | 5.557G            |
| 21                                               | 5.589G            | 22   | 5.391G            | 23   | 5.511G            | 24   | 5.263G            |
| 25                                               | 5.636G            | 26   | 5.284G            | 27   | 5.615G            | 28   | 5.408G            |
| 29                                               | 5.721G            | 30   | 5.318G            | 31   | 5.463G            | 32   | 5.562G            |
| 33                                               | 5.290G            | 34   | 5.250G            | 35   | 5.706G            | 36   | 5.452G            |
| 37                                               | 5.526G            | 38   | 5.588G            | 39   | 5.400G            | 40   | 5.399G            |
| 41                                               | 5.357G            | 42   | 5.541G            | 43   | 5.269G            | 44   | 5.552G            |
| 45                                               | 5.431G            | 46   | 5.481G            | 47   | 5.697G            | 48   | 5.724G            |
| 49                                               | 5.461G            | 50   | 5.322G            | 51   | 5.474G            | 52   | 5.476G            |
| 53                                               | 5.330G            | 54   | 5.359G            | 55   | 5.698G            | 56   | 5.358G            |
| 57                                               | 5.464G            | 58   | 5.547G            | 59   | 5.346G            | 60   | 5.386G            |
| 61                                               | 5.676G            | 62   | 5.560G            | 63   | 5.673G            | 64   | 5.543G            |
| 65                                               | 5.275G            | 66   | 5.691G            | 67   | 5.581G            | 68   | 5.598G            |
| 69                                               | 5.616G            | 70   | 5.471G            | 71   | 5.374G            | 72   | 5.405G            |
| 73                                               | 5.254G            | 74   | 5.537G            | 75   | 5.442G            | 76   | 5.315G            |
| 77                                               | 5.546G            | 78   | 5.274G            | 79   | 5.342G            | 80   | 5.671G            |
| 81                                               | 5.416G            | 82   | 5.545G            | 83   | 5.658G            | 84   | 5.512G            |
| 85                                               | 5.555G            | 86   | 5.381G            | 87   | 5.567G            | 88   | 5.672G            |
| 89                                               | 5.296G            | 90   | 5.595G            | 91   | 5.421G            | 92   | 5.299G            |
| 93                                               | 5.540G            | 94   | 5.701G            | 95   | 5.411G            | 96   | 5.376G            |
| 97                                               | 5.494G            | 98   | 5.329G            | 99   | 5.264G            | 100  | 5.270G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.679G            | 2    | 5.317G            | 3    | 5.547G            | 4    | 5.700G            |
| 5                                                | 5.503G            | 6    | 5.452G            | 7    | 5.250G            | 8    | 5.582G            |
| 9                                                | 5.521G            | 10   | 5.374G            | 11   | 5.535G            | 12   | 5.340G            |
| 13                                               | 5.686G            | 14   | 5.430G            | 15   | 5.264G            | 16   | 5.364G            |
| 17                                               | 5.306G            | 18   | 5.462G            | 19   | 5.309G            | 20   | 5.516G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 21 | 5.499G | 22 | 5.315G | 23 | 5.639G | 24  | 5.636G |
| 25 | 5.724G | 26 | 5.417G | 27 | 5.335G | 28  | 5.444G |
| 29 | 5.458G | 30 | 5.536G | 31 | 5.432G | 32  | 5.551G |
| 33 | 5.477G | 34 | 5.661G | 35 | 5.677G | 36  | 5.344G |
| 37 | 5.675G | 38 | 5.693G | 39 | 5.441G | 40  | 5.287G |
| 41 | 5.681G | 42 | 5.328G | 43 | 5.712G | 44  | 5.454G |
| 45 | 5.357G | 46 | 5.561G | 47 | 5.271G | 48  | 5.515G |
| 49 | 5.608G | 50 | 5.538G | 51 | 5.506G | 52  | 5.376G |
| 53 | 5.584G | 54 | 5.355G | 55 | 5.705G | 56  | 5.406G |
| 57 | 5.260G | 58 | 5.683G | 59 | 5.422G | 60  | 5.343G |
| 61 | 5.605G | 62 | 5.518G | 63 | 5.316G | 64  | 5.459G |
| 65 | 5.722G | 66 | 5.689G | 67 | 5.577G | 68  | 5.423G |
| 69 | 5.702G | 70 | 5.527G | 71 | 5.500G | 72  | 5.716G |
| 73 | 5.587G | 74 | 5.710G | 75 | 5.528G | 76  | 5.562G |
| 77 | 5.568G | 78 | 5.349G | 79 | 5.523G | 80  | 5.609G |
| 81 | 5.481G | 82 | 5.378G | 83 | 5.637G | 84  | 5.684G |
| 85 | 5.261G | 86 | 5.615G | 87 | 5.299G | 88  | 5.410G |
| 89 | 5.358G | 90 | 5.548G | 91 | 5.715G | 92  | 5.534G |
| 93 | 5.370G | 94 | 5.289G | 95 | 5.600G | 96  | 5.553G |
| 97 | 5.525G | 98 | 5.520G | 99 | 5.572G | 100 | 5.273G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.400G            | 2    | 5.348G            | 3    | 5.316G            | 4    | 5.506G            |
| 5                                                | 5.301G            | 6    | 5.657G            | 7    | 5.382G            | 8    | 5.300G            |
| 9                                                | 5.524G            | 10   | 5.617G            | 11   | 5.349G            | 12   | 5.646G            |
| 13                                               | 5.273G            | 14   | 5.283G            | 15   | 5.446G            | 16   | 5.588G            |
| 17                                               | 5.330G            | 18   | 5.417G            | 19   | 5.669G            | 20   | 5.528G            |
| 21                                               | 5.580G            | 22   | 5.679G            | 23   | 5.628G            | 24   | 5.621G            |
| 25                                               | 5.673G            | 26   | 5.651G            | 27   | 5.391G            | 28   | 5.444G            |
| 29                                               | 5.564G            | 30   | 5.685G            | 31   | 5.361G            | 32   | 5.454G            |
| 33                                               | 5.404G            | 34   | 5.690G            | 35   | 5.439G            | 36   | 5.380G            |
| 37                                               | 5.614G            | 38   | 5.516G            | 39   | 5.535G            | 40   | 5.536G            |
| 41                                               | 5.302G            | 42   | 5.388G            | 43   | 5.658G            | 44   | 5.426G            |
| 45                                               | 5.561G            | 46   | 5.550G            | 47   | 5.513G            | 48   | 5.451G            |
| 49                                               | 5.393G            | 50   | 5.560G            | 51   | 5.365G            | 52   | 5.703G            |
| 53                                               | 5.671G            | 54   | 5.684G            | 55   | 5.337G            | 56   | 5.256G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 57 | 5.332G | 58 | 5.571G | 59 | 5.372G | 60  | 5.544G |
| 61 | 5.274G | 62 | 5.723G | 63 | 5.456G | 64  | 5.520G |
| 65 | 5.472G | 66 | 5.425G | 67 | 5.634G | 68  | 5.702G |
| 69 | 5.309G | 70 | 5.710G | 71 | 5.670G | 72  | 5.533G |
| 73 | 5.366G | 74 | 5.724G | 75 | 5.680G | 76  | 5.595G |
| 77 | 5.517G | 78 | 5.287G | 79 | 5.375G | 80  | 5.574G |
| 81 | 5.495G | 82 | 5.328G | 83 | 5.548G | 84  | 5.668G |
| 85 | 5.407G | 86 | 5.579G | 87 | 5.682G | 88  | 5.291G |
| 89 | 5.315G | 90 | 5.586G | 91 | 5.529G | 92  | 5.584G |
| 93 | 5.263G | 94 | 5.541G | 95 | 5.359G | 96  | 5.340G |
| 97 | 5.523G | 98 | 5.543G | 99 | 5.480G | 100 | 5.485G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.319G         | 2    | 5.719G         | 3    | 5.506G         | 4    | 5.714G         |
| 5                                                | 5.382G         | 6    | 5.638G         | 7    | 5.336G         | 8    | 5.350G         |
| 9                                                | 5.416G         | 10   | 5.352G         | 11   | 5.309G         | 12   | 5.381G         |
| 13                                               | 5.517G         | 14   | 5.669G         | 15   | 5.534G         | 16   | 5.540G         |
| 17                                               | 5.705G         | 18   | 5.637G         | 19   | 5.551G         | 20   | 5.471G         |
| 21                                               | 5.287G         | 22   | 5.608G         | 23   | 5.541G         | 24   | 5.606G         |
| 25                                               | 5.709G         | 26   | 5.500G         | 27   | 5.689G         | 28   | 5.527G         |
| 29                                               | 5.422G         | 30   | 5.710G         | 31   | 5.568G         | 32   | 5.346G         |
| 33                                               | 5.575G         | 34   | 5.514G         | 35   | 5.347G         | 36   | 5.391G         |
| 37                                               | 5.362G         | 38   | 5.625G         | 39   | 5.640G         | 40   | 5.258G         |
| 41                                               | 5.398G         | 42   | 5.270G         | 43   | 5.511G         | 44   | 5.499G         |
| 45                                               | 5.684G         | 46   | 5.314G         | 47   | 5.272G         | 48   | 5.303G         |
| 49                                               | 5.647G         | 50   | 5.379G         | 51   | 5.476G         | 52   | 5.392G         |
| 53                                               | 5.494G         | 54   | 5.501G         | 55   | 5.377G         | 56   | 5.467G         |
| 57                                               | 5.507G         | 58   | 5.295G         | 59   | 5.686G         | 60   | 5.254G         |
| 61                                               | 5.306G         | 62   | 5.572G         | 63   | 5.290G         | 64   | 5.373G         |
| 65                                               | 5.302G         | 66   | 5.632G         | 67   | 5.320G         | 68   | 5.578G         |
| 69                                               | 5.539G         | 70   | 5.327G         | 71   | 5.487G         | 72   | 5.515G         |
| 73                                               | 5.571G         | 74   | 5.370G         | 75   | 5.666G         | 76   | 5.604G         |
| 77                                               | 5.368G         | 78   | 5.528G         | 79   | 5.414G         | 80   | 5.695G         |
| 81                                               | 5.429G         | 82   | 5.641G         | 83   | 5.436G         | 84   | 5.417G         |
| 85                                               | 5.269G         | 86   | 5.649G         | 87   | 5.529G         | 88   | 5.457G         |
| 89                                               | 5.283G         | 90   | 5.444G         | 91   | 5.603G         | 92   | 5.372G         |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 93 | 5.664G | 94 | 5.503G | 95 | 5.680G | 96  | 5.563G |
| 97 | 5.712G | 98 | 5.673G | 99 | 5.650G | 100 | 5.296G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.464G            | 2    | 5.500G            | 3    | 5.454G            | 4    | 5.723G            |
| 5                                                | 5.711G            | 6    | 5.679G            | 7    | 5.623G            | 8    | 5.303G            |
| 9                                                | 5.639G            | 10   | 5.651G            | 11   | 5.289G            | 12   | 5.657G            |
| 13                                               | 5.435G            | 14   | 5.551G            | 15   | 5.608G            | 16   | 5.335G            |
| 17                                               | 5.321G            | 18   | 5.467G            | 19   | 5.503G            | 20   | 5.543G            |
| 21                                               | 5.584G            | 22   | 5.481G            | 23   | 5.618G            | 24   | 5.650G            |
| 25                                               | 5.306G            | 26   | 5.366G            | 27   | 5.695G            | 28   | 5.328G            |
| 29                                               | 5.533G            | 30   | 5.461G            | 31   | 5.452G            | 32   | 5.708G            |
| 33                                               | 5.477G            | 34   | 5.479G            | 35   | 5.412G            | 36   | 5.407G            |
| 37                                               | 5.548G            | 38   | 5.683G            | 39   | 5.620G            | 40   | 5.315G            |
| 41                                               | 5.495G            | 42   | 5.416G            | 43   | 5.317G            | 44   | 5.327G            |
| 45                                               | 5.457G            | 46   | 5.641G            | 47   | 5.526G            | 48   | 5.309G            |
| 49                                               | 5.665G            | 50   | 5.636G            | 51   | 5.266G            | 52   | 5.675G            |
| 53                                               | 5.422G            | 54   | 5.271G            | 55   | 5.569G            | 56   | 5.288G            |
| 57                                               | 5.434G            | 58   | 5.505G            | 59   | 5.272G            | 60   | 5.643G            |
| 61                                               | 5.534G            | 62   | 5.259G            | 63   | 5.252G            | 64   | 5.592G            |
| 65                                               | 5.662G            | 66   | 5.267G            | 67   | 5.382G            | 68   | 5.433G            |
| 69                                               | 5.485G            | 70   | 5.682G            | 71   | 5.688G            | 72   | 5.590G            |
| 73                                               | 5.332G            | 74   | 5.269G            | 75   | 5.716G            | 76   | 5.427G            |
| 77                                               | 5.549G            | 78   | 5.456G            | 79   | 5.348G            | 80   | 5.357G            |
| 81                                               | 5.458G            | 82   | 5.440G            | 83   | 5.692G            | 84   | 5.693G            |
| 85                                               | 5.638G            | 86   | 5.509G            | 87   | 5.567G            | 88   | 5.409G            |
| 89                                               | 5.307G            | 90   | 5.715G            | 91   | 5.552G            | 92   | 5.360G            |
| 93                                               | 5.292G            | 94   | 5.470G            | 95   | 5.441G            | 96   | 5.587G            |
| 97                                               | 5.444G            | 98   | 5.365G            | 99   | 5.310G            | 100  | 5.394G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.458G            | 2    | 5.662G            | 3    | 5.310G            | 4    | 5.348G            |
| 5                                                | 5.655G            | 6    | 5.508G            | 7    | 5.547G            | 8    | 5.650G            |
| 9                                                | 5.415G            | 10   | 5.350G            | 11   | 5.550G            | 12   | 5.474G            |
| 13                                               | 5.551G            | 14   | 5.450G            | 15   | 5.722G            | 16   | 5.417G            |
| 17                                               | 5.494G            | 18   | 5.409G            | 19   | 5.499G            | 20   | 5.327G            |
| 21                                               | 5.699G            | 22   | 5.403G            | 23   | 5.390G            | 24   | 5.448G            |
| 25                                               | 5.561G            | 26   | 5.632G            | 27   | 5.564G            | 28   | 5.618G            |
| 29                                               | 5.513G            | 30   | 5.260G            | 31   | 5.339G            | 32   | 5.437G            |
| 33                                               | 5.463G            | 34   | 5.406G            | 35   | 5.446G            | 36   | 5.690G            |
| 37                                               | 5.671G            | 38   | 5.723G            | 39   | 5.588G            | 40   | 5.712G            |
| 41                                               | 5.709G            | 42   | 5.328G            | 43   | 5.451G            | 44   | 5.438G            |
| 45                                               | 5.428G            | 46   | 5.479G            | 47   | 5.320G            | 48   | 5.413G            |
| 49                                               | 5.529G            | 50   | 5.554G            | 51   | 5.517G            | 52   | 5.663G            |
| 53                                               | 5.642G            | 54   | 5.331G            | 55   | 5.715G            | 56   | 5.677G            |
| 57                                               | 5.528G            | 58   | 5.330G            | 59   | 5.526G            | 60   | 5.570G            |
| 61                                               | 5.675G            | 62   | 5.600G            | 63   | 5.654G            | 64   | 5.595G            |
| 65                                               | 5.361G            | 66   | 5.633G            | 67   | 5.540G            | 68   | 5.357G            |
| 69                                               | 5.278G            | 70   | 5.300G            | 71   | 5.641G            | 72   | 5.258G            |
| 73                                               | 5.373G            | 74   | 5.273G            | 75   | 5.656G            | 76   | 5.408G            |
| 77                                               | 5.649G            | 78   | 5.500G            | 79   | 5.421G            | 80   | 5.630G            |
| 81                                               | 5.396G            | 82   | 5.251G            | 83   | 5.533G            | 84   | 5.433G            |
| 85                                               | 5.370G            | 86   | 5.524G            | 87   | 5.386G            | 88   | 5.605G            |
| 89                                               | 5.353G            | 90   | 5.256G            | 91   | 5.640G            | 92   | 5.591G            |
| 93                                               | 5.488G            | 94   | 5.312G            | 95   | 5.295G            | 96   | 5.364G            |
| 97                                               | 5.646G            | 98   | 5.599G            | 99   | 5.697G            | 100  | 5.696G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.495G            | 2    | 5.553G            | 3    | 5.386G            | 4    | 5.410G            |
| 5                                                | 5.686G            | 6    | 5.417G            | 7    | 5.287G            | 8    | 5.575G            |
| 9                                                | 5.292G            | 10   | 5.356G            | 11   | 5.537G            | 12   | 5.589G            |
| 13                                               | 5.291G            | 14   | 5.624G            | 15   | 5.453G            | 16   | 5.485G            |
| 17                                               | 5.607G            | 18   | 5.339G            | 19   | 5.650G            | 20   | 5.660G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 21 | 5.601G | 22 | 5.486G | 23 | 5.431G | 24  | 5.328G |
| 25 | 5.515G | 26 | 5.678G | 27 | 5.448G | 28  | 5.371G |
| 29 | 5.556G | 30 | 5.661G | 31 | 5.659G | 32  | 5.599G |
| 33 | 5.536G | 34 | 5.521G | 35 | 5.261G | 36  | 5.305G |
| 37 | 5.337G | 38 | 5.646G | 39 | 5.588G | 40  | 5.527G |
| 41 | 5.574G | 42 | 5.642G | 43 | 5.695G | 44  | 5.380G |
| 45 | 5.358G | 46 | 5.484G | 47 | 5.713G | 48  | 5.629G |
| 49 | 5.676G | 50 | 5.704G | 51 | 5.267G | 52  | 5.555G |
| 53 | 5.293G | 54 | 5.326G | 55 | 5.461G | 56  | 5.544G |
| 57 | 5.499G | 58 | 5.342G | 59 | 5.420G | 60  | 5.437G |
| 61 | 5.290G | 62 | 5.579G | 63 | 5.597G | 64  | 5.426G |
| 65 | 5.277G | 66 | 5.389G | 67 | 5.257G | 68  | 5.557G |
| 69 | 5.593G | 70 | 5.393G | 71 | 5.341G | 72  | 5.405G |
| 73 | 5.644G | 74 | 5.618G | 75 | 5.594G | 76  | 5.477G |
| 77 | 5.696G | 78 | 5.447G | 79 | 5.577G | 80  | 5.325G |
| 81 | 5.474G | 82 | 5.616G | 83 | 5.647G | 84  | 5.679G |
| 85 | 5.309G | 86 | 5.440G | 87 | 5.652G | 88  | 5.627G |
| 89 | 5.428G | 90 | 5.382G | 91 | 5.419G | 92  | 5.501G |
| 93 | 5.637G | 94 | 5.600G | 95 | 5.306G | 96  | 5.517G |
| 97 | 5.387G | 98 | 5.545G | 99 | 5.497G | 100 | 5.488G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.307G            | 2    | 5.564G            | 3    | 5.439G            | 4    | 5.660G            |
| 5                                                | 5.654G            | 6    | 5.676G            | 7    | 5.652G            | 8    | 5.527G            |
| 9                                                | 5.422G            | 10   | 5.452G            | 11   | 5.378G            | 12   | 5.550G            |
| 13                                               | 5.387G            | 14   | 5.542G            | 15   | 5.563G            | 16   | 5.290G            |
| 17                                               | 5.431G            | 18   | 5.516G            | 19   | 5.575G            | 20   | 5.671G            |
| 21                                               | 5.470G            | 22   | 5.696G            | 23   | 5.580G            | 24   | 5.591G            |
| 25                                               | 5.599G            | 26   | 5.703G            | 27   | 5.421G            | 28   | 5.679G            |
| 29                                               | 5.688G            | 30   | 5.395G            | 31   | 5.257G            | 32   | 5.388G            |
| 33                                               | 5.335G            | 34   | 5.390G            | 35   | 5.364G            | 36   | 5.666G            |
| 37                                               | 5.535G            | 38   | 5.450G            | 39   | 5.322G            | 40   | 5.686G            |
| 41                                               | 5.677G            | 42   | 5.325G            | 43   | 5.578G            | 44   | 5.344G            |
| 45                                               | 5.655G            | 46   | 5.295G            | 47   | 5.430G            | 48   | 5.522G            |
| 49                                               | 5.331G            | 50   | 5.424G            | 51   | 5.508G            | 52   | 5.368G            |
| 53                                               | 5.457G            | 54   | 5.285G            | 55   | 5.673G            | 56   | 5.689G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 57 | 5.362G | 58 | 5.698G | 59 | 5.401G | 60  | 5.691G |
| 61 | 5.624G | 62 | 5.482G | 63 | 5.473G | 64  | 5.310G |
| 65 | 5.610G | 66 | 5.558G | 67 | 5.365G | 68  | 5.273G |
| 69 | 5.298G | 70 | 5.380G | 71 | 5.567G | 72  | 5.708G |
| 73 | 5.600G | 74 | 5.269G | 75 | 5.303G | 76  | 5.398G |
| 77 | 5.308G | 78 | 5.404G | 79 | 5.718G | 80  | 5.499G |
| 81 | 5.373G | 82 | 5.593G | 83 | 5.358G | 84  | 5.468G |
| 85 | 5.311G | 86 | 5.488G | 87 | 5.606G | 88  | 5.363G |
| 89 | 5.533G | 90 | 5.700G | 91 | 5.485G | 92  | 5.346G |
| 93 | 5.642G | 94 | 5.256G | 95 | 5.415G | 96  | 5.721G |
| 97 | 5.500G | 98 | 5.381G | 99 | 5.576G | 100 | 5.585G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.512G         | 2    | 5.624G         | 3    | 5.511G         | 4    | 5.656G         |
| 5                                                | 5.314G         | 6    | 5.708G         | 7    | 5.617G         | 8    | 5.352G         |
| 9                                                | 5.544G         | 10   | 5.669G         | 11   | 5.391G         | 12   | 5.671G         |
| 13                                               | 5.416G         | 14   | 5.501G         | 15   | 5.568G         | 16   | 5.318G         |
| 17                                               | 5.643G         | 18   | 5.275G         | 19   | 5.661G         | 20   | 5.567G         |
| 21                                               | 5.424G         | 22   | 5.274G         | 23   | 5.650G         | 24   | 5.276G         |
| 25                                               | 5.581G         | 26   | 5.418G         | 27   | 5.290G         | 28   | 5.395G         |
| 29                                               | 5.550G         | 30   | 5.601G         | 31   | 5.413G         | 32   | 5.468G         |
| 33                                               | 5.358G         | 34   | 5.534G         | 35   | 5.285G         | 36   | 5.600G         |
| 37                                               | 5.553G         | 38   | 5.638G         | 39   | 5.625G         | 40   | 5.506G         |
| 41                                               | 5.559G         | 42   | 5.305G         | 43   | 5.526G         | 44   | 5.717G         |
| 45                                               | 5.539G         | 46   | 5.542G         | 47   | 5.427G         | 48   | 5.484G         |
| 49                                               | 5.251G         | 50   | 5.269G         | 51   | 5.715G         | 52   | 5.478G         |
| 53                                               | 5.454G         | 54   | 5.359G         | 55   | 5.252G         | 56   | 5.353G         |
| 57                                               | 5.514G         | 58   | 5.436G         | 59   | 5.316G         | 60   | 5.343G         |
| 61                                               | 5.255G         | 62   | 5.604G         | 63   | 5.626G         | 64   | 5.340G         |
| 65                                               | 5.310G         | 66   | 5.482G         | 67   | 5.450G         | 68   | 5.431G         |
| 69                                               | 5.546G         | 70   | 5.645G         | 71   | 5.447G         | 72   | 5.623G         |
| 73                                               | 5.572G         | 74   | 5.723G         | 75   | 5.566G         | 76   | 5.449G         |
| 77                                               | 5.477G         | 78   | 5.356G         | 79   | 5.459G         | 80   | 5.465G         |
| 81                                               | 5.547G         | 82   | 5.532G         | 83   | 5.517G         | 84   | 5.380G         |
| 85                                               | 5.437G         | 86   | 5.594G         | 87   | 5.648G         | 88   | 5.637G         |
| 89                                               | 5.503G         | 90   | 5.474G         | 91   | 5.422G         | 92   | 5.589G         |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 93 | 5.655G | 94 | 5.333G | 95 | 5.344G | 96  | 5.635G |
| 97 | 5.412G | 98 | 5.504G | 99 | 5.652G | 100 | 5.607G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.652G            | 2    | 5.570G            | 3    | 5.614G            | 4    | 5.430G            |
| 5                                                | 5.628G            | 6    | 5.368G            | 7    | 5.343G            | 8    | 5.681G            |
| 9                                                | 5.266G            | 10   | 5.707G            | 11   | 5.389G            | 12   | 5.409G            |
| 13                                               | 5.426G            | 14   | 5.458G            | 15   | 5.309G            | 16   | 5.330G            |
| 17                                               | 5.428G            | 18   | 5.598G            | 19   | 5.300G            | 20   | 5.621G            |
| 21                                               | 5.694G            | 22   | 5.566G            | 23   | 5.600G            | 24   | 5.423G            |
| 25                                               | 5.543G            | 26   | 5.644G            | 27   | 5.673G            | 28   | 5.528G            |
| 29                                               | 5.351G            | 30   | 5.503G            | 31   | 5.577G            | 32   | 5.595G            |
| 33                                               | 5.303G            | 34   | 5.572G            | 35   | 5.499G            | 36   | 5.632G            |
| 37                                               | 5.688G            | 38   | 5.525G            | 39   | 5.396G            | 40   | 5.315G            |
| 41                                               | 5.615G            | 42   | 5.436G            | 43   | 5.620G            | 44   | 5.386G            |
| 45                                               | 5.468G            | 46   | 5.712G            | 47   | 5.537G            | 48   | 5.534G            |
| 49                                               | 5.394G            | 50   | 5.697G            | 51   | 5.280G            | 52   | 5.488G            |
| 53                                               | 5.668G            | 54   | 5.716G            | 55   | 5.316G            | 56   | 5.591G            |
| 57                                               | 5.502G            | 58   | 5.392G            | 59   | 5.366G            | 60   | 5.255G            |
| 61                                               | 5.308G            | 62   | 5.292G            | 63   | 5.427G            | 64   | 5.327G            |
| 65                                               | 5.671G            | 66   | 5.610G            | 67   | 5.254G            | 68   | 5.660G            |
| 69                                               | 5.556G            | 70   | 5.553G            | 71   | 5.533G            | 72   | 5.522G            |
| 73                                               | 5.719G            | 74   | 5.446G            | 75   | 5.364G            | 76   | 5.439G            |
| 77                                               | 5.407G            | 78   | 5.440G            | 79   | 5.624G            | 80   | 5.265G            |
| 81                                               | 5.538G            | 82   | 5.710G            | 83   | 5.563G            | 84   | 5.500G            |
| 85                                               | 5.259G            | 86   | 5.271G            | 87   | 5.613G            | 88   | 5.698G            |
| 89                                               | 5.262G            | 90   | 5.622G            | 91   | 5.561G            | 92   | 5.687G            |
| 93                                               | 5.506G            | 94   | 5.648G            | 95   | 5.419G            | 96   | 5.541G            |
| 97                                               | 5.575G            | 98   | 5.701G            | 99   | 5.649G            | 100  | 5.551G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.711G            | 2    | 5.453G            | 3    | 5.383G            | 4    | 5.419G            |
| 5                                                | 5.398G            | 6    | 5.591G            | 7    | 5.470G            | 8    | 5.534G            |
| 9                                                | 5.411G            | 10   | 5.405G            | 11   | 5.306G            | 12   | 5.264G            |
| 13                                               | 5.354G            | 14   | 5.581G            | 15   | 5.406G            | 16   | 5.439G            |
| 17                                               | 5.340G            | 18   | 5.585G            | 19   | 5.697G            | 20   | 5.723G            |
| 21                                               | 5.274G            | 22   | 5.500G            | 23   | 5.368G            | 24   | 5.358G            |
| 25                                               | 5.446G            | 26   | 5.393G            | 27   | 5.332G            | 28   | 5.580G            |
| 29                                               | 5.283G            | 30   | 5.372G            | 31   | 5.300G            | 32   | 5.296G            |
| 33                                               | 5.321G            | 34   | 5.420G            | 35   | 5.499G            | 36   | 5.484G            |
| 37                                               | 5.661G            | 38   | 5.409G            | 39   | 5.478G            | 40   | 5.565G            |
| 41                                               | 5.437G            | 42   | 5.506G            | 43   | 5.634G            | 44   | 5.612G            |
| 45                                               | 5.289G            | 46   | 5.626G            | 47   | 5.445G            | 48   | 5.620G            |
| 49                                               | 5.495G            | 50   | 5.712G            | 51   | 5.665G            | 52   | 5.644G            |
| 53                                               | 5.386G            | 54   | 5.452G            | 55   | 5.527G            | 56   | 5.691G            |
| 57                                               | 5.288G            | 58   | 5.519G            | 59   | 5.337G            | 60   | 5.258G            |
| 61                                               | 5.388G            | 62   | 5.532G            | 63   | 5.394G            | 64   | 5.299G            |
| 65                                               | 5.702G            | 66   | 5.682G            | 67   | 5.327G            | 68   | 5.608G            |
| 69                                               | 5.267G            | 70   | 5.385G            | 71   | 5.466G            | 72   | 5.415G            |
| 73                                               | 5.362G            | 74   | 5.716G            | 75   | 5.647G            | 76   | 5.587G            |
| 77                                               | 5.455G            | 78   | 5.520G            | 79   | 5.704G            | 80   | 5.414G            |
| 81                                               | 5.444G            | 82   | 5.720G            | 83   | 5.713G            | 84   | 5.373G            |
| 85                                               | 5.604G            | 86   | 5.292G            | 87   | 5.593G            | 88   | 5.542G            |
| 89                                               | 5.689G            | 90   | 5.325G            | 91   | 5.632G            | 92   | 5.539G            |
| 93                                               | 5.594G            | 94   | 5.524G            | 95   | 5.347G            | 96   | 5.724G            |
| 97                                               | 5.281G            | 98   | 5.521G            | 99   | 5.605G            | 100  | 5.262G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.329G            | 2    | 5.719G            | 3    | 5.325G            | 4    | 5.419G            |
| 5                                                | 5.606G            | 6    | 5.510G            | 7    | 5.281G            | 8    | 5.571G            |
| 9                                                | 5.690G            | 10   | 5.423G            | 11   | 5.716G            | 12   | 5.266G            |
| 13                                               | 5.696G            | 14   | 5.607G            | 15   | 5.435G            | 16   | 5.394G            |
| 17                                               | 5.308G            | 18   | 5.665G            | 19   | 5.322G            | 20   | 5.600G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 21 | 5.508G | 22 | 5.518G | 23 | 5.348G | 24  | 5.471G |
| 25 | 5.603G | 26 | 5.724G | 27 | 5.630G | 28  | 5.330G |
| 29 | 5.318G | 30 | 5.278G | 31 | 5.598G | 32  | 5.405G |
| 33 | 5.294G | 34 | 5.464G | 35 | 5.649G | 36  | 5.583G |
| 37 | 5.523G | 38 | 5.663G | 39 | 5.364G | 40  | 5.382G |
| 41 | 5.358G | 42 | 5.353G | 43 | 5.384G | 44  | 5.277G |
| 45 | 5.699G | 46 | 5.406G | 47 | 5.527G | 48  | 5.470G |
| 49 | 5.451G | 50 | 5.568G | 51 | 5.416G | 52  | 5.386G |
| 53 | 5.656G | 54 | 5.389G | 55 | 5.356G | 56  | 5.501G |
| 57 | 5.301G | 58 | 5.346G | 59 | 5.480G | 60  | 5.367G |
| 61 | 5.711G | 62 | 5.529G | 63 | 5.434G | 64  | 5.581G |
| 65 | 5.547G | 66 | 5.307G | 67 | 5.655G | 68  | 5.582G |
| 69 | 5.272G | 70 | 5.631G | 71 | 5.713G | 72  | 5.556G |
| 73 | 5.251G | 74 | 5.397G | 75 | 5.540G | 76  | 5.537G |
| 77 | 5.392G | 78 | 5.381G | 79 | 5.585G | 80  | 5.575G |
| 81 | 5.365G | 82 | 5.579G | 83 | 5.459G | 84  | 5.404G |
| 85 | 5.520G | 86 | 5.639G | 87 | 5.496G | 88  | 5.331G |
| 89 | 5.366G | 90 | 5.624G | 91 | 5.360G | 92  | 5.698G |
| 93 | 5.625G | 94 | 5.553G | 95 | 5.669G | 96  | 5.532G |
| 97 | 5.641G | 98 | 5.629G | 99 | 5.491G | 100 | 5.474G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.564G            | 2    | 5.296G            | 3    | 5.603G            | 4    | 5.441G            |
| 5                                                | 5.598G            | 6    | 5.358G            | 7    | 5.287G            | 8    | 5.590G            |
| 9                                                | 5.672G            | 10   | 5.569G            | 11   | 5.412G            | 12   | 5.445G            |
| 13                                               | 5.377G            | 14   | 5.428G            | 15   | 5.385G            | 16   | 5.500G            |
| 17                                               | 5.512G            | 18   | 5.701G            | 19   | 5.258G            | 20   | 5.354G            |
| 21                                               | 5.432G            | 22   | 5.717G            | 23   | 5.436G            | 24   | 5.324G            |
| 25                                               | 5.298G            | 26   | 5.722G            | 27   | 5.525G            | 28   | 5.661G            |
| 29                                               | 5.602G            | 30   | 5.687G            | 31   | 5.562G            | 32   | 5.494G            |
| 33                                               | 5.716G            | 34   | 5.269G            | 35   | 5.348G            | 36   | 5.647G            |
| 37                                               | 5.585G            | 38   | 5.297G            | 39   | 5.684G            | 40   | 5.643G            |
| 41                                               | 5.253G            | 42   | 5.612G            | 43   | 5.375G            | 44   | 5.401G            |
| 45                                               | 5.664G            | 46   | 5.678G            | 47   | 5.433G            | 48   | 5.523G            |
| 49                                               | 5.652G            | 50   | 5.680G            | 51   | 5.314G            | 52   | 5.552G            |
| 53                                               | 5.670G            | 54   | 5.695G            | 55   | 5.316G            | 56   | 5.460G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 57 | 5.535G | 58 | 5.620G | 59 | 5.450G | 60  | 5.439G |
| 61 | 5.359G | 62 | 5.502G | 63 | 5.313G | 64  | 5.328G |
| 65 | 5.368G | 66 | 5.681G | 67 | 5.263G | 68  | 5.578G |
| 69 | 5.294G | 70 | 5.629G | 71 | 5.310G | 72  | 5.607G |
| 73 | 5.322G | 74 | 5.616G | 75 | 5.534G | 76  | 5.673G |
| 77 | 5.411G | 78 | 5.615G | 79 | 5.536G | 80  | 5.285G |
| 81 | 5.648G | 82 | 5.330G | 83 | 5.498G | 84  | 5.458G |
| 85 | 5.374G | 86 | 5.389G | 87 | 5.610G | 88  | 5.274G |
| 89 | 5.676G | 90 | 5.601G | 91 | 5.495G | 92  | 5.520G |
| 93 | 5.644G | 94 | 5.521G | 95 | 5.407G | 96  | 5.404G |
| 97 | 5.437G | 98 | 5.633G | 99 | 5.654G | 100 | 5.267G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.371G            | 2    | 5.447G            | 3    | 5.295G            | 4    | 5.475G            |
| 5                                                | 5.315G            | 6    | 5.417G            | 7    | 5.576G            | 8    | 5.543G            |
| 9                                                | 5.274G            | 10   | 5.354G            | 11   | 5.487G            | 12   | 5.286G            |
| 13                                               | 5.495G            | 14   | 5.521G            | 15   | 5.527G            | 16   | 5.296G            |
| 17                                               | 5.458G            | 18   | 5.549G            | 19   | 5.476G            | 20   | 5.445G            |
| 21                                               | 5.613G            | 22   | 5.653G            | 23   | 5.510G            | 24   | 5.656G            |
| 25                                               | 5.383G            | 26   | 5.506G            | 27   | 5.273G            | 28   | 5.702G            |
| 29                                               | 5.312G            | 30   | 5.331G            | 31   | 5.492G            | 32   | 5.443G            |
| 33                                               | 5.522G            | 34   | 5.427G            | 35   | 5.338G            | 36   | 5.674G            |
| 37                                               | 5.638G            | 38   | 5.694G            | 39   | 5.636G            | 40   | 5.572G            |
| 41                                               | 5.570G            | 42   | 5.419G            | 43   | 5.715G            | 44   | 5.384G            |
| 45                                               | 5.645G            | 46   | 5.307G            | 47   | 5.300G            | 48   | 5.633G            |
| 49                                               | 5.707G            | 50   | 5.260G            | 51   | 5.683G            | 52   | 5.374G            |
| 53                                               | 5.632G            | 54   | 5.666G            | 55   | 5.689G            | 56   | 5.609G            |
| 57                                               | 5.563G            | 58   | 5.682G            | 59   | 5.435G            | 60   | 5.252G            |
| 61                                               | 5.272G            | 62   | 5.469G            | 63   | 5.375G            | 64   | 5.423G            |
| 65                                               | 5.639G            | 66   | 5.403G            | 67   | 5.542G            | 68   | 5.471G            |
| 69                                               | 5.512G            | 70   | 5.455G            | 71   | 5.278G            | 72   | 5.405G            |
| 73                                               | 5.253G            | 74   | 5.438G            | 75   | 5.473G            | 76   | 5.292G            |
| 77                                               | 5.626G            | 78   | 5.343G            | 79   | 5.667G            | 80   | 5.267G            |
| 81                                               | 5.498G            | 82   | 5.545G            | 83   | 5.400G            | 84   | 5.655G            |
| 85                                               | 5.451G            | 86   | 5.529G            | 87   | 5.285G            | 88   | 5.416G            |
| 89                                               | 5.577G            | 90   | 5.325G            | 91   | 5.554G            | 92   | 5.568G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 93 | 5.519G | 94 | 5.566G | 95 | 5.380G | 96  | 5.693G |
| 97 | 5.479G | 98 | 5.298G | 99 | 5.481G | 100 | 5.442G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.517G            | 2    | 5.386G            | 3    | 5.347G            | 4    | 5.448G            |
| 5                                                | 5.356G            | 6    | 5.667G            | 7    | 5.291G            | 8    | 5.538G            |
| 9                                                | 5.714G            | 10   | 5.257G            | 11   | 5.387G            | 12   | 5.644G            |
| 13                                               | 5.293G            | 14   | 5.504G            | 15   | 5.657G            | 16   | 5.596G            |
| 17                                               | 5.480G            | 18   | 5.638G            | 19   | 5.631G            | 20   | 5.682G            |
| 21                                               | 5.699G            | 22   | 5.519G            | 23   | 5.696G            | 24   | 5.558G            |
| 25                                               | 5.721G            | 26   | 5.705G            | 27   | 5.358G            | 28   | 5.365G            |
| 29                                               | 5.641G            | 30   | 5.399G            | 31   | 5.462G            | 32   | 5.340G            |
| 33                                               | 5.625G            | 34   | 5.254G            | 35   | 5.713G            | 36   | 5.272G            |
| 37                                               | 5.343G            | 38   | 5.712G            | 39   | 5.686G            | 40   | 5.666G            |
| 41                                               | 5.264G            | 42   | 5.718G            | 43   | 5.273G            | 44   | 5.430G            |
| 45                                               | 5.453G            | 46   | 5.537G            | 47   | 5.630G            | 48   | 5.674G            |
| 49                                               | 5.385G            | 50   | 5.455G            | 51   | 5.433G            | 52   | 5.389G            |
| 53                                               | 5.550G            | 54   | 5.336G            | 55   | 5.577G            | 56   | 5.582G            |
| 57                                               | 5.529G            | 58   | 5.578G            | 59   | 5.408G            | 60   | 5.594G            |
| 61                                               | 5.524G            | 62   | 5.518G            | 63   | 5.307G            | 64   | 5.417G            |
| 65                                               | 5.299G            | 66   | 5.338G            | 67   | 5.393G            | 68   | 5.319G            |
| 69                                               | 5.405G            | 70   | 5.516G            | 71   | 5.391G            | 72   | 5.560G            |
| 73                                               | 5.411G            | 74   | 5.655G            | 75   | 5.653G            | 76   | 5.328G            |
| 77                                               | 5.499G            | 78   | 5.348G            | 79   | 5.722G            | 80   | 5.521G            |
| 81                                               | 5.341G            | 82   | 5.506G            | 83   | 5.422G            | 84   | 5.324G            |
| 85                                               | 5.645G            | 86   | 5.583G            | 87   | 5.597G            | 88   | 5.684G            |
| 89                                               | 5.271G            | 90   | 5.419G            | 91   | 5.672G            | 92   | 5.364G            |
| 93                                               | 5.279G            | 94   | 5.315G            | 95   | 5.366G            | 96   | 5.624G            |
| 97                                               | 5.494G            | 98   | 5.255G            | 99   | 5.382G            | 100  | 5.440G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.506G            | 2    | 5.256G            | 3    | 5.686G            | 4    | 5.406G            |
| 5                                                | 5.443G            | 6    | 5.716G            | 7    | 5.719G            | 8    | 5.660G            |
| 9                                                | 5.519G            | 10   | 5.690G            | 11   | 5.569G            | 12   | 5.365G            |
| 13                                               | 5.645G            | 14   | 5.654G            | 15   | 5.417G            | 16   | 5.402G            |
| 17                                               | 5.625G            | 18   | 5.477G            | 19   | 5.277G            | 20   | 5.388G            |
| 21                                               | 5.580G            | 22   | 5.581G            | 23   | 5.682G            | 24   | 5.289G            |
| 25                                               | 5.607G            | 26   | 5.720G            | 27   | 5.634G            | 28   | 5.263G            |
| 29                                               | 5.395G            | 30   | 5.513G            | 31   | 5.511G            | 32   | 5.677G            |
| 33                                               | 5.692G            | 34   | 5.463G            | 35   | 5.383G            | 36   | 5.604G            |
| 37                                               | 5.687G            | 38   | 5.614G            | 39   | 5.315G            | 40   | 5.502G            |
| 41                                               | 5.309G            | 42   | 5.526G            | 43   | 5.662G            | 44   | 5.352G            |
| 45                                               | 5.495G            | 46   | 5.508G            | 47   | 5.487G            | 48   | 5.366G            |
| 49                                               | 5.313G            | 50   | 5.343G            | 51   | 5.599G            | 52   | 5.320G            |
| 53                                               | 5.430G            | 54   | 5.408G            | 55   | 5.629G            | 56   | 5.722G            |
| 57                                               | 5.585G            | 58   | 5.706G            | 59   | 5.280G            | 60   | 5.387G            |
| 61                                               | 5.415G            | 62   | 5.381G            | 63   | 5.510G            | 64   | 5.471G            |
| 65                                               | 5.299G            | 66   | 5.566G            | 67   | 5.550G            | 68   | 5.468G            |
| 69                                               | 5.563G            | 70   | 5.393G            | 71   | 5.691G            | 72   | 5.539G            |
| 73                                               | 5.721G            | 74   | 5.707G            | 75   | 5.681G            | 76   | 5.591G            |
| 77                                               | 5.536G            | 78   | 5.701G            | 79   | 5.708G            | 80   | 5.621G            |
| 81                                               | 5.453G            | 82   | 5.715G            | 83   | 5.446G            | 84   | 5.254G            |
| 85                                               | 5.649G            | 86   | 5.276G            | 87   | 5.449G            | 88   | 5.357G            |
| 89                                               | 5.396G            | 90   | 5.622G            | 91   | 5.638G            | 92   | 5.287G            |
| 93                                               | 5.616G            | 94   | 5.680G            | 95   | 5.610G            | 96   | 5.601G            |
| 97                                               | 5.259G            | 98   | 5.483G            | 99   | 5.596G            | 100  | 5.640G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.710G            | 2    | 5.546G            | 3    | 5.289G            | 4    | 5.331G            |
| 5                                                | 5.419G            | 6    | 5.552G            | 7    | 5.663G            | 8    | 5.543G            |
| 9                                                | 5.467G            | 10   | 5.330G            | 11   | 5.435G            | 12   | 5.603G            |
| 13                                               | 5.724G            | 14   | 5.634G            | 15   | 5.469G            | 16   | 5.495G            |
| 17                                               | 5.259G            | 18   | 5.581G            | 19   | 5.487G            | 20   | 5.563G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 21 | 5.610G | 22 | 5.651G | 23 | 5.407G | 24  | 5.699G |
| 25 | 5.398G | 26 | 5.612G | 27 | 5.387G | 28  | 5.277G |
| 29 | 5.712G | 30 | 5.571G | 31 | 5.444G | 32  | 5.607G |
| 33 | 5.290G | 34 | 5.388G | 35 | 5.601G | 36  | 5.297G |
| 37 | 5.293G | 38 | 5.465G | 39 | 5.349G | 40  | 5.381G |
| 41 | 5.723G | 42 | 5.428G | 43 | 5.448G | 44  | 5.284G |
| 45 | 5.510G | 46 | 5.527G | 47 | 5.504G | 48  | 5.598G |
| 49 | 5.609G | 50 | 5.362G | 51 | 5.640G | 52  | 5.458G |
| 53 | 5.393G | 54 | 5.347G | 55 | 5.478G | 56  | 5.568G |
| 57 | 5.451G | 58 | 5.320G | 59 | 5.459G | 60  | 5.368G |
| 61 | 5.644G | 62 | 5.673G | 63 | 5.449G | 64  | 5.391G |
| 65 | 5.375G | 66 | 5.570G | 67 | 5.309G | 68  | 5.540G |
| 69 | 5.692G | 70 | 5.539G | 71 | 5.698G | 72  | 5.691G |
| 73 | 5.285G | 74 | 5.361G | 75 | 5.281G | 76  | 5.486G |
| 77 | 5.628G | 78 | 5.721G | 79 | 5.573G | 80  | 5.605G |
| 81 | 5.295G | 82 | 5.376G | 83 | 5.298G | 84  | 5.355G |
| 85 | 5.536G | 86 | 5.338G | 87 | 5.709G | 88  | 5.390G |
| 89 | 5.575G | 90 | 5.475G | 91 | 5.429G | 92  | 5.503G |
| 93 | 5.505G | 94 | 5.516G | 95 | 5.464G | 96  | 5.493G |
| 97 | 5.574G | 98 | 5.311G | 99 | 5.319G | 100 | 5.565G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.538G            | 2    | 5.393G            | 3    | 5.323G            | 4    | 5.571G            |
| 5                                                | 5.643G            | 6    | 5.353G            | 7    | 5.660G            | 8    | 5.668G            |
| 9                                                | 5.459G            | 10   | 5.454G            | 11   | 5.665G            | 12   | 5.573G            |
| 13                                               | 5.400G            | 14   | 5.277G            | 15   | 5.498G            | 16   | 5.406G            |
| 17                                               | 5.424G            | 18   | 5.595G            | 19   | 5.696G            | 20   | 5.597G            |
| 21                                               | 5.664G            | 22   | 5.255G            | 23   | 5.639G            | 24   | 5.389G            |
| 25                                               | 5.514G            | 26   | 5.576G            | 27   | 5.536G            | 28   | 5.642G            |
| 29                                               | 5.366G            | 30   | 5.336G            | 31   | 5.431G            | 32   | 5.518G            |
| 33                                               | 5.482G            | 34   | 5.345G            | 35   | 5.532G            | 36   | 5.297G            |
| 37                                               | 5.321G            | 38   | 5.589G            | 39   | 5.474G            | 40   | 5.686G            |
| 41                                               | 5.445G            | 42   | 5.362G            | 43   | 5.702G            | 44   | 5.288G            |
| 45                                               | 5.456G            | 46   | 5.631G            | 47   | 5.259G            | 48   | 5.577G            |
| 49                                               | 5.282G            | 50   | 5.387G            | 51   | 5.372G            | 52   | 5.303G            |
| 53                                               | 5.593G            | 54   | 5.635G            | 55   | 5.477G            | 56   | 5.691G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 57 | 5.339G | 58 | 5.446G | 59 | 5.275G | 60  | 5.533G |
| 61 | 5.697G | 62 | 5.606G | 63 | 5.414G | 64  | 5.268G |
| 65 | 5.652G | 66 | 5.442G | 67 | 5.687G | 68  | 5.348G |
| 69 | 5.318G | 70 | 5.542G | 71 | 5.319G | 72  | 5.616G |
| 73 | 5.250G | 74 | 5.556G | 75 | 5.486G | 76  | 5.419G |
| 77 | 5.695G | 78 | 5.379G | 79 | 5.545G | 80  | 5.401G |
| 81 | 5.485G | 82 | 5.280G | 83 | 5.548G | 84  | 5.262G |
| 85 | 5.363G | 86 | 5.581G | 87 | 5.516G | 88  | 5.554G |
| 89 | 5.579G | 90 | 5.596G | 91 | 5.376G | 92  | 5.479G |
| 93 | 5.563G | 94 | 5.505G | 95 | 5.298G | 96  | 5.347G |
| 97 | 5.549G | 98 | 5.524G | 99 | 5.410G | 100 | 5.291G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.674G         | 2    | 5.475G         | 3    | 5.290G         | 4    | 5.341G         |
| 5                                                | 5.404G         | 6    | 5.336G         | 7    | 5.428G         | 8    | 5.429G         |
| 9                                                | 5.583G         | 10   | 5.611G         | 11   | 5.608G         | 12   | 5.511G         |
| 13                                               | 5.427G         | 14   | 5.305G         | 15   | 5.701G         | 16   | 5.619G         |
| 17                                               | 5.303G         | 18   | 5.626G         | 19   | 5.684G         | 20   | 5.719G         |
| 21                                               | 5.614G         | 22   | 5.301G         | 23   | 5.355G         | 24   | 5.252G         |
| 25                                               | 5.327G         | 26   | 5.379G         | 27   | 5.682G         | 28   | 5.395G         |
| 29                                               | 5.576G         | 30   | 5.575G         | 31   | 5.293G         | 32   | 5.461G         |
| 33                                               | 5.538G         | 34   | 5.493G         | 35   | 5.348G         | 36   | 5.268G         |
| 37                                               | 5.665G         | 38   | 5.332G         | 39   | 5.699G         | 40   | 5.679G         |
| 41                                               | 5.598G         | 42   | 5.484G         | 43   | 5.307G         | 44   | 5.559G         |
| 45                                               | 5.331G         | 46   | 5.383G         | 47   | 5.660G         | 48   | 5.451G         |
| 49                                               | 5.328G         | 50   | 5.573G         | 51   | 5.693G         | 52   | 5.387G         |
| 53                                               | 5.636G         | 54   | 5.605G         | 55   | 5.285G         | 56   | 5.691G         |
| 57                                               | 5.506G         | 58   | 5.510G         | 59   | 5.597G         | 60   | 5.476G         |
| 61                                               | 5.666G         | 62   | 5.517G         | 63   | 5.600G         | 64   | 5.337G         |
| 65                                               | 5.500G         | 66   | 5.460G         | 67   | 5.703G         | 68   | 5.425G         |
| 69                                               | 5.670G         | 70   | 5.555G         | 71   | 5.564G         | 72   | 5.250G         |
| 73                                               | 5.570G         | 74   | 5.507G         | 75   | 5.596G         | 76   | 5.482G         |
| 77                                               | 5.519G         | 78   | 5.662G         | 79   | 5.257G         | 80   | 5.491G         |
| 81                                               | 5.412G         | 82   | 5.292G         | 83   | 5.400G         | 84   | 5.295G         |
| 85                                               | 5.525G         | 86   | 5.453G         | 87   | 5.560G         | 88   | 5.592G         |
| 89                                               | 5.364G         | 90   | 5.494G         | 91   | 5.687G         | 92   | 5.351G         |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 93 | 5.297G | 94 | 5.577G | 95 | 5.612G | 96  | 5.463G |
| 97 | 5.349G | 98 | 5.552G | 99 | 5.492G | 100 | 5.546G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.270G            | 2    | 5.525G            | 3    | 5.527G            | 4    | 5.628G            |
| 5                                                | 5.402G            | 6    | 5.639G            | 7    | 5.615G            | 8    | 5.369G            |
| 9                                                | 5.302G            | 10   | 5.456G            | 11   | 5.250G            | 12   | 5.407G            |
| 13                                               | 5.362G            | 14   | 5.435G            | 15   | 5.252G            | 16   | 5.698G            |
| 17                                               | 5.660G            | 18   | 5.442G            | 19   | 5.385G            | 20   | 5.359G            |
| 21                                               | 5.685G            | 22   | 5.263G            | 23   | 5.404G            | 24   | 5.387G            |
| 25                                               | 5.661G            | 26   | 5.510G            | 27   | 5.449G            | 28   | 5.395G            |
| 29                                               | 5.704G            | 30   | 5.496G            | 31   | 5.467G            | 32   | 5.554G            |
| 33                                               | 5.257G            | 34   | 5.393G            | 35   | 5.305G            | 36   | 5.572G            |
| 37                                               | 5.700G            | 38   | 5.373G            | 39   | 5.548G            | 40   | 5.320G            |
| 41                                               | 5.392G            | 42   | 5.296G            | 43   | 5.274G            | 44   | 5.610G            |
| 45                                               | 5.611G            | 46   | 5.581G            | 47   | 5.409G            | 48   | 5.390G            |
| 49                                               | 5.451G            | 50   | 5.376G            | 51   | 5.417G            | 52   | 5.523G            |
| 53                                               | 5.282G            | 54   | 5.432G            | 55   | 5.546G            | 56   | 5.497G            |
| 57                                               | 5.355G            | 58   | 5.276G            | 59   | 5.342G            | 60   | 5.327G            |
| 61                                               | 5.637G            | 62   | 5.289G            | 63   | 5.293G            | 64   | 5.539G            |
| 65                                               | 5.627G            | 66   | 5.379G            | 67   | 5.299G            | 68   | 5.427G            |
| 69                                               | 5.595G            | 70   | 5.553G            | 71   | 5.315G            | 72   | 5.669G            |
| 73                                               | 5.709G            | 74   | 5.405G            | 75   | 5.587G            | 76   | 5.360G            |
| 77                                               | 5.663G            | 78   | 5.461G            | 79   | 5.565G            | 80   | 5.275G            |
| 81                                               | 5.308G            | 82   | 5.487G            | 83   | 5.620G            | 84   | 5.540G            |
| 85                                               | 5.469G            | 86   | 5.561G            | 87   | 5.545G            | 88   | 5.597G            |
| 89                                               | 5.536G            | 90   | 5.506G            | 91   | 5.318G            | 92   | 5.697G            |
| 93                                               | 5.295G            | 94   | 5.519G            | 95   | 5.560G            | 96   | 5.389G            |
| 97                                               | 5.719G            | 98   | 5.654G            | 99   | 5.336G            | 100  | 5.608G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.288G            | 2    | 5.441G            | 3    | 5.682G            | 4    | 5.304G            |
| 5                                                | 5.313G            | 6    | 5.446G            | 7    | 5.442G            | 8    | 5.612G            |
| 9                                                | 5.345G            | 10   | 5.337G            | 11   | 5.557G            | 12   | 5.638G            |
| 13                                               | 5.427G            | 14   | 5.303G            | 15   | 5.298G            | 16   | 5.592G            |
| 17                                               | 5.267G            | 18   | 5.717G            | 19   | 5.568G            | 20   | 5.320G            |
| 21                                               | 5.697G            | 22   | 5.541G            | 23   | 5.667G            | 24   | 5.506G            |
| 25                                               | 5.423G            | 26   | 5.518G            | 27   | 5.575G            | 28   | 5.413G            |
| 29                                               | 5.527G            | 30   | 5.283G            | 31   | 5.709G            | 32   | 5.469G            |
| 33                                               | 5.554G            | 34   | 5.418G            | 35   | 5.250G            | 36   | 5.495G            |
| 37                                               | 5.366G            | 38   | 5.681G            | 39   | 5.716G            | 40   | 5.471G            |
| 41                                               | 5.302G            | 42   | 5.628G            | 43   | 5.534G            | 44   | 5.698G            |
| 45                                               | 5.439G            | 46   | 5.510G            | 47   | 5.673G            | 48   | 5.408G            |
| 49                                               | 5.624G            | 50   | 5.280G            | 51   | 5.473G            | 52   | 5.676G            |
| 53                                               | 5.582G            | 54   | 5.400G            | 55   | 5.648G            | 56   | 5.383G            |
| 57                                               | 5.626G            | 58   | 5.358G            | 59   | 5.296G            | 60   | 5.641G            |
| 61                                               | 5.690G            | 62   | 5.608G            | 63   | 5.365G            | 64   | 5.397G            |
| 65                                               | 5.629G            | 66   | 5.647G            | 67   | 5.620G            | 68   | 5.493G            |
| 69                                               | 5.417G            | 70   | 5.570G            | 71   | 5.596G            | 72   | 5.581G            |
| 73                                               | 5.285G            | 74   | 5.606G            | 75   | 5.654G            | 76   | 5.445G            |
| 77                                               | 5.318G            | 78   | 5.404G            | 79   | 5.553G            | 80   | 5.335G            |
| 81                                               | 5.378G            | 82   | 5.505G            | 83   | 5.694G            | 84   | 5.487G            |
| 85                                               | 5.715G            | 86   | 5.269G            | 87   | 5.552G            | 88   | 5.287G            |
| 89                                               | 5.315G            | 90   | 5.289G            | 91   | 5.422G            | 92   | 5.431G            |
| 93                                               | 5.569G            | 94   | 5.507G            | 95   | 5.478G            | 96   | 5.464G            |
| 97                                               | 5.702G            | 98   | 5.347G            | 99   | 5.275G            | 100  | 5.409G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.521G            | 2    | 5.425G            | 3    | 5.711G            | 4    | 5.694G            |
| 5                                                | 5.679G            | 6    | 5.449G            | 7    | 5.723G            | 8    | 5.440G            |
| 9                                                | 5.279G            | 10   | 5.442G            | 11   | 5.700G            | 12   | 5.326G            |
| 13                                               | 5.286G            | 14   | 5.608G            | 15   | 5.664G            | 16   | 5.265G            |
| 17                                               | 5.395G            | 18   | 5.687G            | 19   | 5.258G            | 20   | 5.656G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 21 | 5.348G | 22 | 5.319G | 23 | 5.306G | 24  | 5.412G |
| 25 | 5.624G | 26 | 5.556G | 27 | 5.420G | 28  | 5.457G |
| 29 | 5.404G | 30 | 5.693G | 31 | 5.640G | 32  | 5.606G |
| 33 | 5.627G | 34 | 5.367G | 35 | 5.387G | 36  | 5.401G |
| 37 | 5.441G | 38 | 5.580G | 39 | 5.398G | 40  | 5.274G |
| 41 | 5.323G | 42 | 5.651G | 43 | 5.386G | 44  | 5.683G |
| 45 | 5.300G | 46 | 5.283G | 47 | 5.655G | 48  | 5.638G |
| 49 | 5.487G | 50 | 5.705G | 51 | 5.358G | 52  | 5.600G |
| 53 | 5.559G | 54 | 5.261G | 55 | 5.614G | 56  | 5.581G |
| 57 | 5.409G | 58 | 5.424G | 59 | 5.322G | 60  | 5.292G |
| 61 | 5.263G | 62 | 5.667G | 63 | 5.682G | 64  | 5.397G |
| 65 | 5.264G | 66 | 5.482G | 67 | 5.713G | 68  | 5.302G |
| 69 | 5.650G | 70 | 5.572G | 71 | 5.464G | 72  | 5.686G |
| 73 | 5.351G | 74 | 5.562G | 75 | 5.573G | 76  | 5.355G |
| 77 | 5.724G | 78 | 5.550G | 79 | 5.476G | 80  | 5.603G |
| 81 | 5.450G | 82 | 5.601G | 83 | 5.684G | 84  | 5.592G |
| 85 | 5.354G | 86 | 5.255G | 87 | 5.359G | 88  | 5.568G |
| 89 | 5.702G | 90 | 5.692G | 91 | 5.336G | 92  | 5.639G |
| 93 | 5.484G | 94 | 5.637G | 95 | 5.477G | 96  | 5.520G |
| 97 | 5.327G | 98 | 5.378G | 99 | 5.461G | 100 | 5.501G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.461G            | 2    | 5.451G            | 3    | 5.572G            | 4    | 5.600G            |
| 5                                                | 5.561G            | 6    | 5.338G            | 7    | 5.515G            | 8    | 5.403G            |
| 9                                                | 5.527G            | 10   | 5.628G            | 11   | 5.654G            | 12   | 5.544G            |
| 13                                               | 5.367G            | 14   | 5.353G            | 15   | 5.665G            | 16   | 5.573G            |
| 17                                               | 5.377G            | 18   | 5.534G            | 19   | 5.432G            | 20   | 5.621G            |
| 21                                               | 5.302G            | 22   | 5.414G            | 23   | 5.560G            | 24   | 5.574G            |
| 25                                               | 5.381G            | 26   | 5.533G            | 27   | 5.546G            | 28   | 5.404G            |
| 29                                               | 5.700G            | 30   | 5.325G            | 31   | 5.355G            | 32   | 5.685G            |
| 33                                               | 5.588G            | 34   | 5.625G            | 35   | 5.294G            | 36   | 5.505G            |
| 37                                               | 5.344G            | 38   | 5.352G            | 39   | 5.630G            | 40   | 5.599G            |
| 41                                               | 5.430G            | 42   | 5.495G            | 43   | 5.431G            | 44   | 5.253G            |
| 45                                               | 5.714G            | 46   | 5.258G            | 47   | 5.691G            | 48   | 5.719G            |
| 49                                               | 5.287G            | 50   | 5.557G            | 51   | 5.623G            | 52   | 5.343G            |
| 53                                               | 5.682G            | 54   | 5.717G            | 55   | 5.408G            | 56   | 5.526G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 57 | 5.569G | 58 | 5.393G | 59 | 5.452G | 60  | 5.549G |
| 61 | 5.705G | 62 | 5.375G | 63 | 5.271G | 64  | 5.264G |
| 65 | 5.470G | 66 | 5.674G | 67 | 5.312G | 68  | 5.389G |
| 69 | 5.341G | 70 | 5.358G | 71 | 5.394G | 72  | 5.440G |
| 73 | 5.493G | 74 | 5.538G | 75 | 5.604G | 76  | 5.699G |
| 77 | 5.554G | 78 | 5.586G | 79 | 5.380G | 80  | 5.454G |
| 81 | 5.662G | 82 | 5.304G | 83 | 5.443G | 84  | 5.267G |
| 85 | 5.649G | 86 | 5.364G | 87 | 5.487G | 88  | 5.636G |
| 89 | 5.276G | 90 | 5.360G | 91 | 5.722G | 92  | 5.694G |
| 93 | 5.616G | 94 | 5.255G | 95 | 5.351G | 96  | 5.424G |
| 97 | 5.279G | 98 | 5.663G | 99 | 5.382G | 100 | 5.373G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.536G         | 2    | 5.267G         | 3    | 5.257G         | 4    | 5.254G         |
| 5                                                | 5.720G         | 6    | 5.325G         | 7    | 5.329G         | 8    | 5.393G         |
| 9                                                | 5.689G         | 10   | 5.621G         | 11   | 5.601G         | 12   | 5.464G         |
| 13                                               | 5.700G         | 14   | 5.261G         | 15   | 5.418G         | 16   | 5.270G         |
| 17                                               | 5.417G         | 18   | 5.702G         | 19   | 5.341G         | 20   | 5.565G         |
| 21                                               | 5.573G         | 22   | 5.310G         | 23   | 5.537G         | 24   | 5.612G         |
| 25                                               | 5.495G         | 26   | 5.314G         | 27   | 5.714G         | 28   | 5.723G         |
| 29                                               | 5.292G         | 30   | 5.369G         | 31   | 5.401G         | 32   | 5.378G         |
| 33                                               | 5.716G         | 34   | 5.311G         | 35   | 5.667G         | 36   | 5.455G         |
| 37                                               | 5.467G         | 38   | 5.336G         | 39   | 5.520G         | 40   | 5.600G         |
| 41                                               | 5.535G         | 42   | 5.595G         | 43   | 5.604G         | 44   | 5.363G         |
| 45                                               | 5.696G         | 46   | 5.472G         | 47   | 5.677G         | 48   | 5.598G         |
| 49                                               | 5.425G         | 50   | 5.391G         | 51   | 5.660G         | 52   | 5.650G         |
| 53                                               | 5.352G         | 54   | 5.586G         | 55   | 5.360G         | 56   | 5.371G         |
| 57                                               | 5.532G         | 58   | 5.420G         | 59   | 5.692G         | 60   | 5.454G         |
| 61                                               | 5.579G         | 62   | 5.539G         | 63   | 5.617G         | 64   | 5.516G         |
| 65                                               | 5.498G         | 66   | 5.649G         | 67   | 5.452G         | 68   | 5.514G         |
| 69                                               | 5.412G         | 70   | 5.293G         | 71   | 5.668G         | 72   | 5.574G         |
| 73                                               | 5.547G         | 74   | 5.424G         | 75   | 5.326G         | 76   | 5.722G         |
| 77                                               | 5.524G         | 78   | 5.289G         | 79   | 5.258G         | 80   | 5.713G         |
| 81                                               | 5.451G         | 82   | 5.251G         | 83   | 5.618G         | 84   | 5.357G         |
| 85                                               | 5.446G         | 86   | 5.348G         | 87   | 5.427G         | 88   | 5.681G         |
| 89                                               | 5.544G         | 90   | 5.260G         | 91   | 5.606G         | 92   | 5.280G         |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 93 | 5.501G | 94 | 5.438G | 95 | 5.474G | 96  | 5.284G |
| 97 | 5.382G | 98 | 5.376G | 99 | 5.444G | 100 | 5.496G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.635G            | 2    | 5.651G            | 3    | 5.269G            | 4    | 5.372G            |
| 5                                                | 5.328G            | 6    | 5.410G            | 7    | 5.344G            | 8    | 5.563G            |
| 9                                                | 5.250G            | 10   | 5.420G            | 11   | 5.549G            | 12   | 5.565G            |
| 13                                               | 5.346G            | 14   | 5.682G            | 15   | 5.548G            | 16   | 5.632G            |
| 17                                               | 5.573G            | 18   | 5.614G            | 19   | 5.376G            | 20   | 5.690G            |
| 21                                               | 5.495G            | 22   | 5.409G            | 23   | 5.348G            | 24   | 5.648G            |
| 25                                               | 5.469G            | 26   | 5.666G            | 27   | 5.272G            | 28   | 5.408G            |
| 29                                               | 5.584G            | 30   | 5.571G            | 31   | 5.553G            | 32   | 5.425G            |
| 33                                               | 5.512G            | 34   | 5.619G            | 35   | 5.386G            | 36   | 5.368G            |
| 37                                               | 5.318G            | 38   | 5.620G            | 39   | 5.609G            | 40   | 5.336G            |
| 41                                               | 5.560G            | 42   | 5.424G            | 43   | 5.610G            | 44   | 5.429G            |
| 45                                               | 5.433G            | 46   | 5.680G            | 47   | 5.313G            | 48   | 5.366G            |
| 49                                               | 5.576G            | 50   | 5.396G            | 51   | 5.669G            | 52   | 5.663G            |
| 53                                               | 5.283G            | 54   | 5.562G            | 55   | 5.270G            | 56   | 5.697G            |
| 57                                               | 5.481G            | 58   | 5.668G            | 59   | 5.533G            | 60   | 5.688G            |
| 61                                               | 5.487G            | 62   | 5.305G            | 63   | 5.389G            | 64   | 5.589G            |
| 65                                               | 5.296G            | 66   | 5.364G            | 67   | 5.597G            | 68   | 5.494G            |
| 69                                               | 5.419G            | 70   | 5.698G            | 71   | 5.427G            | 72   | 5.662G            |
| 73                                               | 5.397G            | 74   | 5.261G            | 75   | 5.444G            | 76   | 5.465G            |
| 77                                               | 5.678G            | 78   | 5.498G            | 79   | 5.684G            | 80   | 5.629G            |
| 81                                               | 5.464G            | 82   | 5.282G            | 83   | 5.251G            | 84   | 5.700G            |
| 85                                               | 5.473G            | 86   | 5.634G            | 87   | 5.567G            | 88   | 5.380G            |
| 89                                               | 5.460G            | 90   | 5.468G            | 91   | 5.362G            | 92   | 5.527G            |
| 93                                               | 5.539G            | 94   | 5.720G            | 95   | 5.439G            | 96   | 5.704G            |
| 97                                               | 5.438G            | 98   | 5.339G            | 99   | 5.583G            | 100  | 5.486G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.370G            | 2    | 5.453G            | 3    | 5.644G            | 4    | 5.308G            |
| 5                                                | 5.373G            | 6    | 5.503G            | 7    | 5.257G            | 8    | 5.336G            |
| 9                                                | 5.387G            | 10   | 5.669G            | 11   | 5.319G            | 12   | 5.548G            |
| 13                                               | 5.273G            | 14   | 5.334G            | 15   | 5.663G            | 16   | 5.428G            |
| 17                                               | 5.492G            | 18   | 5.638G            | 19   | 5.295G            | 20   | 5.388G            |
| 21                                               | 5.512G            | 22   | 5.513G            | 23   | 5.455G            | 24   | 5.405G            |
| 25                                               | 5.496G            | 26   | 5.538G            | 27   | 5.596G            | 28   | 5.654G            |
| 29                                               | 5.368G            | 30   | 5.674G            | 31   | 5.279G            | 32   | 5.696G            |
| 33                                               | 5.277G            | 34   | 5.718G            | 35   | 5.600G            | 36   | 5.327G            |
| 37                                               | 5.660G            | 38   | 5.714G            | 39   | 5.723G            | 40   | 5.631G            |
| 41                                               | 5.539G            | 42   | 5.420G            | 43   | 5.482G            | 44   | 5.353G            |
| 45                                               | 5.345G            | 46   | 5.702G            | 47   | 5.390G            | 48   | 5.668G            |
| 49                                               | 5.349G            | 50   | 5.480G            | 51   | 5.534G            | 52   | 5.583G            |
| 53                                               | 5.256G            | 54   | 5.526G            | 55   | 5.643G            | 56   | 5.304G            |
| 57                                               | 5.435G            | 58   | 5.377G            | 59   | 5.264G            | 60   | 5.656G            |
| 61                                               | 5.450G            | 62   | 5.448G            | 63   | 5.298G            | 64   | 5.697G            |
| 65                                               | 5.282G            | 66   | 5.468G            | 67   | 5.586G            | 68   | 5.430G            |
| 69                                               | 5.561G            | 70   | 5.576G            | 71   | 5.401G            | 72   | 5.402G            |
| 73                                               | 5.553G            | 74   | 5.568G            | 75   | 5.323G            | 76   | 5.281G            |
| 77                                               | 5.285G            | 78   | 5.381G            | 79   | 5.270G            | 80   | 5.635G            |
| 81                                               | 5.577G            | 82   | 5.486G            | 83   | 5.684G            | 84   | 5.602G            |
| 85                                               | 5.374G            | 86   | 5.708G            | 87   | 5.501G            | 88   | 5.592G            |
| 89                                               | 5.499G            | 90   | 5.484G            | 91   | 5.682G            | 92   | 5.607G            |
| 93                                               | 5.507G            | 94   | 5.375G            | 95   | 5.678G            | 96   | 5.641G            |
| 97                                               | 5.646G            | 98   | 5.557G            | 99   | 5.588G            | 100  | 5.691G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.347G            | 2    | 5.450G            | 3    | 5.355G            | 4    | 5.604G            |
| 5                                                | 5.544G            | 6    | 5.673G            | 7    | 5.325G            | 8    | 5.523G            |
| 9                                                | 5.721G            | 10   | 5.585G            | 11   | 5.703G            | 12   | 5.475G            |
| 13                                               | 5.390G            | 14   | 5.525G            | 15   | 5.337G            | 16   | 5.267G            |
| 17                                               | 5.285G            | 18   | 5.320G            | 19   | 5.322G            | 20   | 5.281G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 21 | 5.682G | 22 | 5.675G | 23 | 5.718G | 24  | 5.669G |
| 25 | 5.279G | 26 | 5.269G | 27 | 5.265G | 28  | 5.636G |
| 29 | 5.677G | 30 | 5.483G | 31 | 5.376G | 32  | 5.495G |
| 33 | 5.535G | 34 | 5.335G | 35 | 5.601G | 36  | 5.275G |
| 37 | 5.349G | 38 | 5.368G | 39 | 5.552G | 40  | 5.521G |
| 41 | 5.411G | 42 | 5.417G | 43 | 5.457G | 44  | 5.303G |
| 45 | 5.366G | 46 | 5.709G | 47 | 5.437G | 48  | 5.292G |
| 49 | 5.536G | 50 | 5.298G | 51 | 5.405G | 52  | 5.333G |
| 53 | 5.658G | 54 | 5.354G | 55 | 5.657G | 56  | 5.623G |
| 57 | 5.403G | 58 | 5.421G | 59 | 5.534G | 60  | 5.491G |
| 61 | 5.582G | 62 | 5.713G | 63 | 5.546G | 64  | 5.428G |
| 65 | 5.459G | 66 | 5.435G | 67 | 5.512G | 68  | 5.352G |
| 69 | 5.280G | 70 | 5.440G | 71 | 5.338G | 72  | 5.487G |
| 73 | 5.426G | 74 | 5.288G | 75 | 5.722G | 76  | 5.705G |
| 77 | 5.704G | 78 | 5.628G | 79 | 5.538G | 80  | 5.478G |
| 81 | 5.602G | 82 | 5.434G | 83 | 5.710G | 84  | 5.441G |
| 85 | 5.315G | 86 | 5.717G | 87 | 5.714G | 88  | 5.569G |
| 89 | 5.592G | 90 | 5.461G | 91 | 5.344G | 92  | 5.622G |
| 93 | 5.511G | 94 | 5.460G | 95 | 5.409G | 96  | 5.668G |
| 97 | 5.264G | 98 | 5.517G | 99 | 5.584G | 100 | 5.259G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.449G            | 2    | 5.476G            | 3    | 5.473G            | 4    | 5.397G            |
| 5                                                | 5.508G            | 6    | 5.695G            | 7    | 5.656G            | 8    | 5.679G            |
| 9                                                | 5.435G            | 10   | 5.293G            | 11   | 5.618G            | 12   | 5.439G            |
| 13                                               | 5.468G            | 14   | 5.521G            | 15   | 5.563G            | 16   | 5.462G            |
| 17                                               | 5.633G            | 18   | 5.641G            | 19   | 5.533G            | 20   | 5.669G            |
| 21                                               | 5.486G            | 22   | 5.627G            | 23   | 5.403G            | 24   | 5.348G            |
| 25                                               | 5.614G            | 26   | 5.529G            | 27   | 5.671G            | 28   | 5.549G            |
| 29                                               | 5.638G            | 30   | 5.295G            | 31   | 5.518G            | 32   | 5.255G            |
| 33                                               | 5.432G            | 34   | 5.277G            | 35   | 5.709G            | 36   | 5.535G            |
| 37                                               | 5.286G            | 38   | 5.557G            | 39   | 5.619G            | 40   | 5.719G            |
| 41                                               | 5.259G            | 42   | 5.320G            | 43   | 5.639G            | 44   | 5.429G            |
| 45                                               | 5.451G            | 46   | 5.603G            | 47   | 5.382G            | 48   | 5.341G            |
| 49                                               | 5.357G            | 50   | 5.714G            | 51   | 5.377G            | 52   | 5.423G            |
| 53                                               | 5.580G            | 54   | 5.314G            | 55   | 5.335G            | 56   | 5.543G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 57 | 5.278G | 58 | 5.406G | 59 | 5.676G | 60  | 5.454G |
| 61 | 5.591G | 62 | 5.433G | 63 | 5.632G | 64  | 5.532G |
| 65 | 5.697G | 66 | 5.422G | 67 | 5.478G | 68  | 5.321G |
| 69 | 5.381G | 70 | 5.569G | 71 | 5.398G | 72  | 5.272G |
| 73 | 5.500G | 74 | 5.635G | 75 | 5.280G | 76  | 5.323G |
| 77 | 5.516G | 78 | 5.299G | 79 | 5.710G | 80  | 5.620G |
| 81 | 5.675G | 82 | 5.345G | 83 | 5.362G | 84  | 5.498G |
| 85 | 5.322G | 86 | 5.339G | 87 | 5.552G | 88  | 5.648G |
| 89 | 5.541G | 90 | 5.523G | 91 | 5.337G | 92  | 5.380G |
| 93 | 5.650G | 94 | 5.326G | 95 | 5.418G | 96  | 5.502G |
| 97 | 5.351G | 98 | 5.264G | 99 | 5.626G | 100 | 5.565G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.672G         | 2    | 5.293G         | 3    | 5.512G         | 4    | 5.436G         |
| 5                                                | 5.415G         | 6    | 5.447G         | 7    | 5.336G         | 8    | 5.636G         |
| 9                                                | 5.316G         | 10   | 5.650G         | 11   | 5.392G         | 12   | 5.567G         |
| 13                                               | 5.600G         | 14   | 5.668G         | 15   | 5.696G         | 16   | 5.459G         |
| 17                                               | 5.305G         | 18   | 5.396G         | 19   | 5.574G         | 20   | 5.587G         |
| 21                                               | 5.623G         | 22   | 5.644G         | 23   | 5.724G         | 24   | 5.442G         |
| 25                                               | 5.294G         | 26   | 5.548G         | 27   | 5.253G         | 28   | 5.443G         |
| 29                                               | 5.542G         | 30   | 5.258G         | 31   | 5.261G         | 32   | 5.353G         |
| 33                                               | 5.515G         | 34   | 5.430G         | 35   | 5.648G         | 36   | 5.344G         |
| 37                                               | 5.296G         | 38   | 5.462G         | 39   | 5.514G         | 40   | 5.709G         |
| 41                                               | 5.562G         | 42   | 5.622G         | 43   | 5.540G         | 44   | 5.365G         |
| 45                                               | 5.417G         | 46   | 5.255G         | 47   | 5.513G         | 48   | 5.639G         |
| 49                                               | 5.621G         | 50   | 5.494G         | 51   | 5.358G         | 52   | 5.398G         |
| 53                                               | 5.700G         | 54   | 5.569G         | 55   | 5.378G         | 56   | 5.420G         |
| 57                                               | 5.444G         | 58   | 5.572G         | 59   | 5.362G         | 60   | 5.297G         |
| 61                                               | 5.712G         | 62   | 5.519G         | 63   | 5.303G         | 64   | 5.505G         |
| 65                                               | 5.486G         | 66   | 5.466G         | 67   | 5.597G         | 68   | 5.427G         |
| 69                                               | 5.448G         | 70   | 5.460G         | 71   | 5.310G         | 72   | 5.502G         |
| 73                                               | 5.590G         | 74   | 5.487G         | 75   | 5.625G         | 76   | 5.581G         |
| 77                                               | 5.431G         | 78   | 5.723G         | 79   | 5.545G         | 80   | 5.264G         |
| 81                                               | 5.651G         | 82   | 5.338G         | 83   | 5.301G         | 84   | 5.299G         |
| 85                                               | 5.346G         | 86   | 5.713G         | 87   | 5.282G         | 88   | 5.286G         |
| 89                                               | 5.559G         | 90   | 5.593G         | 91   | 5.533G         | 92   | 5.278G         |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 93 | 5.266G | 94 | 5.332G | 95 | 5.380G | 96  | 5.350G |
| 97 | 5.483G | 98 | 5.682G | 99 | 5.414G | 100 | 5.428G |

## 802.11ac (VHT80)

| Type 1 Radar Statistical Performances |                                            |                        |                  |         |                       |           |
|---------------------------------------|--------------------------------------------|------------------------|------------------|---------|-----------------------|-----------|
| Trial #                               | Pulse Repetition Frequency Number(1 to 23) | PRF(Pulse per seconds) | Pulses per Burst | PRI (s) | Radar Frequency (MHz) | Detection |
| 1                                     | 1                                          | 1930.5                 | 102              | 518.0u  | 5490                  | Yes       |
| 2                                     | 2                                          | 1858.7                 | 99               | 538.0u  | 5492                  | Yes       |
| 3                                     | 3                                          | 1792.1                 | 95               | 558.0u  | 5495                  | Yes       |
| 4                                     | 4                                          | 1730.1                 | 92               | 578.0u  | 5498                  | Yes       |
| 5                                     | 5                                          | 1672.2                 | 89               | 598.0u  | 5503                  | Yes       |
| 6                                     | 7                                          | 1567.4                 | 86               | 618.0u  | 5508                  | Yes       |
| 7                                     | 8                                          | 1519.8                 | 83               | 638.0u  | 5510                  | Yes       |
| 8                                     | 9                                          | 1474.9                 | 81               | 658.0u  | 5513                  | Yes       |
| 9                                     | 10                                         | 1432.7                 | 76               | 698.0u  | 5518                  | Yes       |
| 10                                    | 11                                         | 1392.8                 | 72               | 738.0u  | 5523                  | Yes       |
| 11                                    | 12                                         | 1355                   | 70               | 758.0u  | 5525                  | Yes       |
| 12                                    | 15                                         | 1253.1                 | 68               | 778.0u  | 5527                  | Yes       |
| 13                                    | 16                                         | 1222.5                 | 67               | 798.0u  | 5528                  | Yes       |
| 14                                    | 17                                         | 1193.3                 | 65               | 818.0u  | 5529                  | Yes       |
| 15                                    | 20                                         | 1113.6                 | 63               | 838.0u  | 5530                  | Yes       |
| 16                                    |                                            | 1474.9                 | 89               | 599.0u  | 5530                  | Yes       |
| 17                                    |                                            | 1239.2                 | 71               | 747.0u  | 5531                  | Yes       |
| 18                                    |                                            | 1102.5                 | 60               | 887.0u  | 5532                  | Yes       |
| 19                                    |                                            | 1300.4                 | 82               | 649.0u  | 5533                  | Yes       |
| 20                                    |                                            | 1076.4                 | 69               | 769.0u  | 5535                  | Yes       |
| 21                                    |                                            | 1584.8                 | 57               | 929.0u  | 5537                  | Yes       |
| 22                                    |                                            | 1122.3                 | 77               | 691.0u  | 5542                  | Yes       |
| 23                                    |                                            | 1876.2                 | 63               | 851.0u  | 5547                  | Yes       |
| 24                                    |                                            | 1293.7                 | 96               | 553.0u  | 5550                  | Yes       |
| 25                                    |                                            | 1071.8                 | 75               | 713.0u  | 5552                  | Yes       |
| 26                                    |                                            | 1481.5                 | 61               | 873.0u  | 5557                  | Yes       |
| 27                                    |                                            | 1197.6                 | 96               | 555.0u  | 5562                  | Yes       |
| 28                                    |                                            | 1224.0                 | 72               | 735.0u  | 5565                  | Yes       |
| 29                                    |                                            | 1426.5                 | 19               | 2.853m  | 5568                  | Yes       |
| 30                                    |                                            | 326.3                  | 83               | 637.0u  | 5570                  | Yes       |
| Detection Rate: 100.0 %               |                                            |                        |                  |         |                       |           |

| Type 2 Radar Statistical Performances |                  |                 |         |                 |           |
|---------------------------------------|------------------|-----------------|---------|-----------------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection |
| 1                                     | 23               | 1.3u            | 228u    | 5567            | Yes       |
| 2                                     | 26               | 3.2u            | 172u    | 5521            | Yes       |
| 3                                     | 27               | 3.9u            | 212u    | 5531            | Yes       |
| 4                                     | 24               | 1.9u            | 213u    | 5559            | Yes       |
| 5                                     | 27               | 3.6u            | 150u    | 5522            | Yes       |
| 6                                     | 26               | 3.3u            | 158u    | 5496            | Yes       |
| 7                                     | 29               | 4.9u            | 210u    | 5546            | Yes       |
| 8                                     | 23               | 1.3u            | 223u    | 5530            | Yes       |
| 9                                     | 29               | 4.9u            | 152u    | 5498            | Yes       |
| 10                                    | 27               | 3.3u            | 190u    | 5500            | Yes       |
| 11                                    | 25               | 2.7u            | 203u    | 5532            | Yes       |
| 12                                    | 29               | 5u              | 227u    | 5504            | Yes       |
| 13                                    | 26               | 3.3u            | 196u    | 5505            | Yes       |
| 14                                    | 28               | 4.4u            | 198u    | 5553            | Yes       |
| 15                                    | 24               | 1.9u            | 161     | 5535            | Yes       |
| 16                                    | 27               | 3.6u            | 226u    | 5520            | Yes       |
| 17                                    | 26               | 2.8u            | 181u    | 5514            | Yes       |
| 18                                    | 25               | 2.5u            | 167uu   | 5517            | Yes       |
| 19                                    | 23               | 1.3u            | 178u    | 5508            | No        |
| 20                                    | 25               | 2.4u            | 187u    | 5570            | Yes       |
| 21                                    | 29               | 4.8u            | 153u    | 5534            | Yes       |
| 22                                    | 27               | 3.5u            | 201u    | 5563            | Yes       |
| 23                                    | 23               | 1.3u            | 166u    | 5491            | Yes       |
| 24                                    | 29               | 4.8u            | 155u    | 5513            | Yes       |
| 25                                    | 28               | 4.3u            | 221u    | 5499            | Yes       |
| 26                                    | 26               | 3.2u            | 191u    | 5562            | Yes       |
| 27                                    | 24               | 1.7u            | 192u    | 5495            | Yes       |
| 28                                    | 23               | 1.2u            | 164u    | 5545            | Yes       |
| 29                                    | 25               | 2.4u            | 154u    | 5518            | Yes       |
| 30                                    | 29               | 5u              | 207u    | 5512            | Yes       |
| Detection Rate: 96.67 %               |                  |                 |         |                 |           |

| Type 3 Radar Statistical Performances |                  |                 |         |                 |           |
|---------------------------------------|------------------|-----------------|---------|-----------------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection |
| 1                                     | 16               | 6.3u            | 403u    | 5490            | No        |
| 2                                     | 17               | 8.2u            | 313u    | 5534            | Yes       |
| 3                                     | 18               | 8.9u            | 214u    | 5493            | Yes       |
| 4                                     | 16               | 6.9u            | 262u    | 5492            | Yes       |
| 5                                     | 17               | 8.6u            | 273u    | 5506            | Yes       |
| 6                                     | 17               | 8.3u            | 470u    | 5502            | Yes       |
| 7                                     | 18               | 9.9u            | 453u    | 5540            | Yes       |
| 8                                     | 16               | 6.3u            | 378u    | 5521            | Yes       |
| 9                                     | 18               | 9.9u            | 483u    | 5518            | Yes       |
| 10                                    | 17               | 8.3u            | 317u    | 5499            | Yes       |
| 11                                    | 17               | 7.7u            | 385u    | 5562            | Yes       |
| 12                                    | 18               | 10u             | 275u    | 5547            | No        |
| 13                                    | 17               | 8.3u            | 497u    | 5494            | Yes       |
| 14                                    | 18               | 9.4u            | 420u    | 5556            | Yes       |
| 15                                    | 16               | 6.9u            | 366u    | 5504            | Yes       |
| 16                                    | 17               | 8.6u            | 414u    | 5501            | Yes       |
| 17                                    | 17               | 7.8u            | 444u    | 5529            | Yes       |
| 18                                    | 17               | 7.5u            | 427u    | 5570            | Yes       |
| 19                                    | 16               | 6.3u            | 338u    | 5498            | Yes       |
| 20                                    | 17               | 7.4u            | 436u    | 5503            | Yes       |
| 21                                    | 18               | 9.8u            | 265u    | 5510            | Yes       |
| 22                                    | 17               | 8.5u            | 451u    | 5509            | Yes       |
| 23                                    | 16               | 6.3u            | 274u    | 5519            | Yes       |
| 24                                    | 18               | 9.8u            | 417u    | 5508            | Yes       |
| 25                                    | 18               | 9.3u            | 330u    | 5563            | Yes       |
| 26                                    | 17               | 8.2u            | 472u    | 5511            | Yes       |
| 27                                    | 16               | 6.7u            | 333u    | 5551            | Yes       |
| 28                                    | 16               | 6.2u            | 377u    | 5516            | Yes       |
| 29                                    | 17               | 7.4u            | 394u    | 5495            | Yes       |
| 30                                    | 18               | 10u             | 296u    | 5554            | Yes       |
| Detection Rate: 93.33 %               |                  |                 |         |                 |           |

| Type 4 Radar Statistical Performances |                  |                 |         |                 |           |
|---------------------------------------|------------------|-----------------|---------|-----------------|-----------|
| Trial #                               | Pulses per Burst | Pulse Width (s) | PRI (s) | Radar Frequency | Detection |
| 1                                     | 12               | 11.7u           | 403u    | 5526            | Yes       |
| 2                                     | 14               | 15.9u           | 313u    | 5496            | Yes       |
| 3                                     | 15               | 17.4u           | 214u    | 5560            | Yes       |
| 4                                     | 13               | 13.2u           | 262u    | 5512            | Yes       |
| 5                                     | 15               | 16.8u           | 273u    | 5565            | No        |
| 6                                     | 14               | 16.1u           | 470u    | 5555            | Yes       |
| 7                                     | 16               | 19.8u           | 453u    | 5510            | Yes       |
| 8                                     | 12               | 11.7u           | 378u    | 5505            | Yes       |
| 9                                     | 16               | 19.8u           | 483u    | 5538            | Yes       |
| 10                                    | 14               | 16.2u           | 317u    | 5499            | Yes       |
| 11                                    | 14               | 14.8u           | 385u    | 5517            | Yes       |
| 12                                    | 16               | 19.9u           | 275u    | 5547            | Yes       |
| 13                                    | 14               | 16.1u           | 497u    | 5544            | Yes       |
| 14                                    | 16               | 18.6u           | 420u    | 5549            | Yes       |
| 15                                    | 13               | 13.2u           | 366u    | 5504            | Yes       |
| 16                                    | 15               | 16.9u           | 414u    | 5513            | Yes       |
| 17                                    | 14               | 15u             | 444u    | 5506            | No        |
| 18                                    | 13               | 14.4u           | 427u    | 5511            | Yes       |
| 19                                    | 12               | 11.7u           | 338u    | 5570            | Yes       |
| 20                                    | 13               | 14.2u           | 436u    | 5562            | Yes       |
| 21                                    | 16               | 19.6u           | 265u    | 5527            | Yes       |
| 22                                    | 15               | 16.5u           | 451u    | 5521            | Yes       |
| 23                                    | 12               | 11.7u           | 274u    | 5558            | Yes       |
| 24                                    | 16               | 19.4u           | 417u    | 5564            | Yes       |
| 25                                    | 16               | 18.3u           | 330u    | 5541            | Yes       |
| 26                                    | 14               | 15.9u           | 472u    | 5561            | Yes       |
| 27                                    | 12               | 12.5u           | 333u    | 5543            | Yes       |
| 28                                    | 12               | 11.5u           | 377u    | 5519            | Yes       |
| 29                                    | 13               | 14.2u           | 394u    | 5518            | Yes       |
| 30                                    | 16               | 19.8u           | 296u    | 5534            | Yes       |
| Detection Rate: 93.33 %               |                  |                 |         |                 |           |

| Type 5 Radar Statistical Performances |                  |                        |
|---------------------------------------|------------------|------------------------|
| Trial #                               | Test Signal Name | Detection              |
| 1                                     | LP_Signal_01     | Yes                    |
| 2                                     | LP_Signal_02     | Yes                    |
| 3                                     | LP_Signal_03     | Yes                    |
| 4                                     | LP_Signal_04     | Yes                    |
| 5                                     | LP_Signal_05     | No                     |
| 6                                     | LP_Signal_06     | Yes                    |
| 7                                     | LP_Signal_07     | Yes                    |
| 8                                     | LP_Signal_08     | Yes                    |
| 9                                     | LP_Signal_09     | No                     |
| 10                                    | LP_Signal_10     | Yes                    |
| 11                                    | LP_Signal_11     | Yes                    |
| 12                                    | LP_Signal_12     | No                     |
| 13                                    | LP_Signal_13     | Yes                    |
| 14                                    | LP_Signal_14     | Yes                    |
| 15                                    | LP_Signal_15     | Yes                    |
| 16                                    | LP_Signal_16     | Yes                    |
| 17                                    | LP_Signal_17     | Yes                    |
| 18                                    | LP_Signal_18     | No                     |
| 19                                    | LP_Signal_19     | Yes                    |
| 20                                    | LP_Signal_20     | Yes                    |
| 21                                    | LP_Signal_21     | Yes                    |
| 22                                    | LP_Signal_22     | Yes                    |
| 23                                    | LP_Signal_23     | Yes                    |
| 24                                    | LP_Signal_24     | Yes                    |
| 25                                    | LP_Signal_25     | Yes                    |
| 26                                    | LP_Signal_26     | Yes                    |
| 27                                    | LP_Signal_27     | Yes                    |
| 28                                    | LP_Signal_28     | Yes                    |
| 29                                    | LP_Signal_29     | Yes                    |
| 30                                    | LP_Signal_30     | Yes                    |
|                                       |                  | Detection Rate: 86.7 % |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_01  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 14   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5493MHz |                  |            |                 |                          |                          |                    |
| 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                | 20M        | 89.8u           | 958.2u                   | -                        | 146.9m             |
| 2                               | 3                | 20M        | 93.1u           | 1.680m                   | 1.399m                   | 602.2m             |
| 3                               | 3                | 20M        | 99.9u           | 1.412m                   | 1.104m                   | 382.3m             |
| 4                               | 3                | 20M        | 81.3u           | 1.361m                   | 1.357m                   | 826.3m             |
| 5                               | 2                | 20M        | 58.9u           | 1.882m                   | -                        | 678.3m             |
| 6                               | 2                | 20M        | 62.6u           | 1.115m                   | -                        | 41.22m             |
| 7                               | 1                | 20M        | 59.4u           | -                        | -                        | 168.2m             |
| 8                               | 2                | 20M        | 58.4u           | 1.786m                   | -                        | 810.7m             |
| 9                               | 3                | 20M        | 93.1u           | 1.298m                   | 1.212m                   | 651.9m             |
| 10                              | 2                | 20M        | 50.6u           | 1.849m                   | -                        | 168.0m             |
| 11                              | 2                | 20M        | 82.1u           | 1.866m                   | -                        | 296.7m             |
| 12                              | 2                | 20M        | 89.9u           | 1.635m                   | -                        | 266.2m             |
| 13                              | 1                | 20M        | 92.5u           | -                        | -                        | 540.8m             |
| 14                              | 3                | 20M        | 92.9u           | 1.003m                   | 1.034m                   | 233.0m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_02  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 20   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5494MHz |                  |            |                 |                          |                          |                    |
| 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                | 20M        | 63.1u           | 1.352m                   | -                        | 165.6m             |
| 2                               | 2                | 20M        | 58.9u           | 1.458m                   | -                        | 231.2m             |
| 3                               | 2                | 20M        | 77.9u           | 1.812m                   | -                        | 578.2m             |
| 4                               | 2                | 20M        | 55.4u           | 1.834m                   | -                        | 493.0m             |
| 5                               | 3                | 20M        | 93.5u           | 1.337m                   | 1.895m                   | 207.5m             |
| 6                               | 2                | 20M        | 92.8u           | 1.212m                   | -                        | 161.6m             |
| 7                               | 3                | 20M        | 60.2u           | 1.500m                   | 1.299m                   | 450.6m             |
| 8                               | 3                | 20M        | 92.9u           | 980.1u                   | 1.224m                   | 70.72m             |
| 9                               | 3                | 20M        | 68.5u           | 1.737m                   | 1.169m                   | 263.0m             |
| 10                              | 2                | 20M        | 85.6u           | 967.4u                   | -                        | 128.5m             |
| 11                              | 2                | 20M        | 85.4u           | 1.165m                   | -                        | 495.9m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 12 | 2 | 20M | 68.2u | 1.498m | -      | 88.26m |
| 13 | 2 | 20M | 66.6u | 1.769m | -      | 10.88m |
| 14 | 3 | 20M | 56.7u | 1.517m | 1.056m | 393.2m |
| 15 | 1 | 20M | 61.9u | -      | -      | 488.3m |
| 16 | 3 | 20M | 92.9u | 1.185m | 1.163m | 309.7m |
| 17 | 2 | 20M | 59.6u | 1.139m | -      | 243.6m |
| 18 | 3 | 20M | 71.4u | 1.337m | 1.026m | 381.3m |
| 19 | 3 | 20M | 66.5u | 1.886m | 1.669m | 75.38m |
| 20 | 1 | 20M | 99.2u | -      | -      | 205.0m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_03  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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                | 20M        | 63.9u           | -                        | -                        | 77.33m             |
| 2                               | 2                | 20M        | 94.7u           | 1.807m                   | -                        | 47.69m             |
| 3                               | 2                | 20M        | 55.2u           | 1.653m                   | -                        | 235.8m             |
| 4                               | 1                | 20M        | 88.6u           | -                        | -                        | 734.4m             |
| 5                               | 3                | 20M        | 58.9u           | 1.448m                   | 1.576m                   | 594.5m             |
| 6                               | 3                | 20M        | 80.2u           | 1.051m                   | 1.328m                   | 738.1m             |
| 7                               | 2                | 20M        | 51.8u           | 1.771m                   | -                        | 610.0m             |
| 8                               | 1                | 20M        | 58.2u           | -                        | -                        | 187.6m             |
| 9                               | 3                | 20M        | 51.5u           | 1.442m                   | 1.642m                   | 91.17m             |
| 10                              | 2                | 20M        | 54.6u           | 1.066m                   | -                        | 128.0m             |
| 11                              | 3                | 20M        | 92.5u           | 1.718m                   | 1.207m                   | 337.4m             |
| 12                              | 3                | 20M        | 88.1u           | 1.794m                   | 1.583m                   | 438.5m             |
| 13                              | 2                | 20M        | 63.5u           | 1.643m                   | -                        | 214.3m             |
| 14                              | 2                | 20M        | 73.1u           | 959.9u                   | -                        | 235.5m             |
| 15                              | 1                | 20M        | 71.4u           | -                        | -                        | 509.1m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_04  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 17   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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                | 18M        | 99.1u           | -                        | -                        | 365.0m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 2  | 2 | 18M | 80.2u | 1.073m | -      | 218.9m |
| 3  | 1 | 18M | 98.4u | -      | -      | 62.40m |
| 4  | 2 | 18M | 79.9u | 924.1u | -      | 28.38m |
| 5  | 3 | 18M | 85.7u | 1.729m | 1.103m | 59.49m |
| 6  | 3 | 18M | 83.1u | 1.033m | 1.823m | 360.0m |
| 7  | 1 | 18M | 93.9u | -      | -      | 207.7m |
| 8  | 2 | 18M | 92.9u | 1.657m | -      | 307.2m |
| 9  | 2 | 18M | 93.9u | 1.164m | -      | 269.1m |
| 10 | 3 | 18M | 71.8u | 1.516m | 1.207m | 433.3m |
| 11 | 2 | 18M | 60.1u | 1.913m | -      | 334.1m |
| 12 | 2 | 18M | 65.1u | 1.569m | -      | 471.0m |
| 13 | 2 | 18M | 70.1u | 1.020m | -      | 403.4m |
| 14 | 2 | 18M | 54.7u | 1.505m | -      | 537.2m |
| 15 | 2 | 18M | 71.7u | 1.764m | -      | 569.9m |
| 16 | 2 | 18M | 98.5u | 1.729m | -      | 505.7m |
| 17 | 2 | 18M | 90.2u | 1.677m | -      | 644.0m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_05  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 11   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5495MHz |                  |            |                 |                          |                          |                    |
| 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                | 18M        | 64.2u           | -                        | -                        | 494.2m             |
| 2                               | 2                | 18M        | 97.0u           | 1.292m                   | -                        | 114.8m             |
| 3                               | 2                | 18M        | 52.3u           | 1.620m                   | -                        | 1.064              |
| 4                               | 2                | 18M        | 60.6u           | 1.251m                   | -                        | 410.6m             |
| 5                               | 3                | 18M        | 84.8u           | 1.723m                   | 1.288m                   | 300.7m             |
| 6                               | 1                | 18M        | 50.7u           | -                        | -                        | 53.23m             |
| 7                               | 3                | 18M        | 89.9u           | 1.262m                   | 1.445m                   | 710.3m             |
| 8                               | 2                | 18M        | 97.5u           | 1.135m                   | -                        | 685.6m             |
| 9                               | 1                | 18M        | 64.6u           | -                        | -                        | 299.5m             |
| 10                              | 3                | 18M        | 54.2u           | 1.045m                   | 1.103m                   | 829.1m             |
| 11                              | 1                | 18M        | 71.8u           | -                        | -                        | 490.9m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_06  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5496MHz |                  |            |                 |                          |                          |                    |
| 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                | 18M        | 76.9u           | 1.237m                   | -                        | 555.7m             |
| 2                               | 3                | 18M        | 90.6u           | 1.903m                   | 1.092m                   | 438.1m             |
| 3                               | 2                | 18M        | 99.3u           | 1.507m                   | -                        | 346.0m             |
| 4                               | 2                | 18M        | 89.9u           | 1.524m                   | -                        | 345.9m             |
| 5                               | 2                | 18M        | 65.6u           | 1.720m                   | -                        | 258.9m             |
| 6                               | 1                | 18M        | 77.2u           | -                        | -                        | 347.7m             |
| 7                               | 1                | 18M        | 60.5u           | -                        | -                        | 359.7m             |
| 8                               | 3                | 18M        | 65.1u           | 1.373m                   | 1.097m                   | 337.8m             |
| 9                               | 2                | 18M        | 65.7u           | 1.587m                   | -                        | 359.4m             |
| 10                              | 3                | 18M        | 90.6u           | 1.294m                   | 1.142m                   | 366.8m             |
| 11                              | 2                | 18M        | 82.4u           | 1.038m                   | -                        | 435.3m             |
| 12                              | 2                | 18M        | 95.2u           | 980.8u                   | -                        | 333.7m             |
| 13                              | 1                | 18M        | 50.2u           | -                        | -                        | 586.5m             |
| 14                              | 2                | 18M        | 55.7u           | 1.311m                   | -                        | 577.6m             |
| 15                              | 1                | 18M        | 76.5u           | -                        | -                        | 29.99m             |
| 16                              | 3                | 18M        | 73.2u           | 1.228m                   | 960.8u                   | 610.8m             |
| 17                              | 3                | 18M        | 80.8u           | 1.016m                   | 1.639m                   | 124.7m             |
| 18                              | 1                | 18M        | 75.1u           | -                        | -                        | 525.7m             |
| 19                              | 2                | 18M        | 90.5u           | 1.397m                   | -                        | 210.0m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_07  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 12   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5496MHz |                  |            |                 |                          |                          |                    |
| 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        | 93.4u           | 1.791m                   | -                        | 467.1m             |
| 2                               | 2                | 17M        | 53.0u           | 1.331m                   | -                        | 100.2m             |
| 3                               | 2                | 17M        | 63.1u           | 1.017m                   | -                        | 444.6m             |
| 4                               | 2                | 17M        | 66.4u           | 1.835m                   | -                        | 765.4m             |
| 5                               | 2                | 17M        | 54.8u           | 1.828m                   | -                        | 810.6m             |
| 6                               | 3                | 17M        | 99.5u           | 974.5u                   | 1.850m                   | 833.5m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 7  | 1 | 17M | 94.7u | -      | -      | 898.3m |
| 8  | 3 | 17M | 51.2u | 1.184m | 1.832m | 783.4m |
| 9  | 3 | 17M | 87.4u | 1.279m | 1.661m | 145.4m |
| 10 | 3 | 17M | 60.8u | 1.353m | 1.908m | 109.4m |
| 11 | 2 | 17M | 81.3u | 1.689m | -      | 467.0m |
| 12 | 2 | 17M | 65.6u | 957.4u | -      | 612.4m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_08  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5497MHz |                  |            |                 |                          |                          |                    |
| 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        | 74.4u           | 1.078m                   | -                        | 405.4m             |
| 2                               | 2                | 17M        | 64.5u           | 1.652m                   | -                        | 642.9m             |
| 3                               | 2                | 17M        | 60.9u           | 1.407m                   | -                        | 702.7m             |
| 4                               | 1                | 17M        | 93.7u           | -                        | -                        | 738.4m             |
| 5                               | 3                | 17M        | 73.4u           | 1.274m                   | 1.171m                   | 600.8m             |
| 6                               | 2                | 17M        | 65.8u           | 1.640m                   | -                        | 566.8m             |
| 7                               | 2                | 17M        | 67.9u           | 1.038m                   | -                        | 561.0m             |
| 8                               | 2                | 17M        | 75.2u           | 970.8u                   | -                        | 25.08m             |
| 9                               | 1                | 17M        | 58.5u           | -                        | -                        | 667.7m             |
| 10                              | 1                | 17M        | 97.9u           | -                        | -                        | 176.6m             |
| 11                              | 3                | 17M        | 87.6u           | 1.679m                   | 1.187m                   | 730.3m             |
| 12                              | 1                | 17M        | 94.5u           | -                        | -                        | 720.4m             |
| 13                              | 3                | 17M        | 56.4u           | 1.013m                   | 1.776m                   | 274.4m             |
| 14                              | 2                | 17M        | 84.2u           | 1.338m                   | -                        | 186.8m             |
| 15                              | 1                | 17M        | 67.2u           | -                        | -                        | 223.4m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_09  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 10   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5498MHz |                  |            |                 |                          |                          |                    |
| 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        | 99.1u           | 1.432m                   | -                        | 452.6m             |
| 2                               | 2                | 17M        | 85.7u           | 1.749m                   | -                        | 995.1m             |
| 3                               | 2                | 17M        | 63.1u           | 1.583m                   | -                        | 348.2m             |
| 4                               | 2                | 17M        | 78.7u           | 1.420m                   | -                        | 1.184              |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 5  | 2 | 17M | 82.0u | 1.576m | -      | 745.4m |
| 6  | 1 | 17M | 52.4u | -      | -      | 410.8m |
| 7  | 3 | 17M | 79.4u | 1.362m | 994.6u | 206.2m |
| 8  | 3 | 17M | 90.4u | 1.173m | 1.671m | 534.7m |
| 9  | 2 | 17M | 92.6u | 1.715m | -      | 1.114  |
| 10 | 2 | 17M | 84.6u | 1.254m | -      | 963.0m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_10  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 12   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5499MHz |                  |            |                 |                          |                          |                    |
| 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                | 15M        | 91.9u           | 1.303m                   | 1.089m                   | 773.6m             |
| 2                               | 3                | 15M        | 60.3u           | 1.462m                   | 1.450m                   | 919.7m             |
| 3                               | 2                | 15M        | 67.3u           | 1.863m                   | -                        | 541.7m             |
| 4                               | 2                | 15M        | 81.9u           | 1.640m                   | -                        | 615.1m             |
| 5                               | 2                | 15M        | 86.7u           | 1.507m                   | -                        | 774.5m             |
| 6                               | 2                | 15M        | 79.8u           | 1.827m                   | -                        | 615.8m             |
| 7                               | 2                | 15M        | 94.9u           | 1.478m                   | -                        | 145.1m             |
| 8                               | 2                | 15M        | 77.6u           | 1.605m                   | -                        | 650.7m             |
| 9                               | 2                | 15M        | 88.8u           | 1.690m                   | -                        | 806.3m             |
| 10                              | 1                | 15M        | 89.3u           | -                        | -                        | 451.0m             |
| 11                              | 2                | 15M        | 80.7u           | 1.437m                   | -                        | 12.93m             |
| 12                              | 2                | 15M        | 80.1u           | 1.246m                   | -                        | 6.725m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_11  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 8    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5530MHz |                  |            |                 |                          |                          |                    |
| 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        | 61.9u           | 1.482m                   | -                        | 23.65m             |
| 2                               | 2                | 15M        | 76.8u           | 1.819m                   | -                        | 1.274              |
| 3                               | 1                | 15M        | 93.8u           | -                        | -                        | 1.028              |
| 4                               | 3                | 15M        | 67.8u           | 1.480m                   | 1.136m                   | 355.3m             |
| 5                               | 2                | 15M        | 79.1u           | 1.648m                   | -                        | 1.431              |
| 6                               | 2                | 15M        | 82.1u           | 1.086m                   | -                        | 516.9m             |
| 7                               | 1                | 15M        | 70.6u           | -                        | -                        | 1.348              |

|   |   |     |       |        |   |       |
|---|---|-----|-------|--------|---|-------|
| 8 | 2 | 15M | 77.9u | 1.747m | - | 1.102 |
|---|---|-----|-------|--------|---|-------|

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_12  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 13   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5531MHz |                  |            |                 |                          |                          |                    |
| 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        | 58.8u           | -                        | -                        | 24.59m             |
| 2                               | 2                | 15M        | 70.7u           | 1.396m                   | -                        | 679.2m             |
| 3                               | 2                | 15M        | 73.6u           | 1.819m                   | -                        | 117.6m             |
| 4                               | 2                | 15M        | 61.6u           | 1.469m                   | -                        | 619.5m             |
| 5                               | 2                | 15M        | 94.1u           | 1.818m                   | -                        | 334.8m             |
| 6                               | 2                | 15M        | 75.1u           | 1.779m                   | -                        | 356.5m             |
| 7                               | 2                | 15M        | 72.8u           | 1.892m                   | -                        | 109.8m             |
| 8                               | 1                | 15M        | 60.6u           | -                        | -                        | 347.6m             |
| 9                               | 1                | 15M        | 78.3u           | -                        | -                        | 296.3m             |
| 10                              | 1                | 15M        | 92.8u           | -                        | -                        | 611.0m             |
| 11                              | 2                | 15M        | 87.0u           | 1.901m                   | -                        | 64.79m             |
| 12                              | 2                | 15M        | 98.1u           | 1.888m                   | -                        | 304.4m             |
| 13                              | 2                | 15M        | 53.2u           | 1.031m                   | -                        | 667.8m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_13  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5532MHz |                  |            |                 |                          |                          |                    |
| 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        | 85.7u           | 1.367m                   | -                        | 603.6m             |
| 2                               | 3                | 14M        | 78.6u           | 1.641m                   | 1.199m                   | 161.4m             |
| 3                               | 3                | 14M        | 80.1u           | 1.820m                   | 1.882m                   | 517.0m             |
| 4                               | 2                | 14M        | 62.7u           | 979.3u                   | -                        | 319.0m             |
| 5                               | 2                | 14M        | 85.2u           | 1.237m                   | -                        | 559.3m             |
| 6                               | 3                | 14M        | 98.1u           | 1.761m                   | 1.255m                   | 106.3m             |
| 7                               | 1                | 14M        | 72.0u           | -                        | -                        | 136.6m             |
| 8                               | 2                | 14M        | 68.4u           | 1.583m                   | -                        | 562.6m             |
| 9                               | 1                | 14M        | 82.6u           | -                        | -                        | 591.2m             |
| 10                              | 2                | 14M        | 82.9u           | 1.029m                   | -                        | 339.8m             |
| 11                              | 1                | 14M        | 66.1u           | -                        | -                        | 277.3m             |

|    |   |     |       |        |   |        |
|----|---|-----|-------|--------|---|--------|
| 12 | 2 | 14M | 72.6u | 1.029m | - | 514.5m |
| 13 | 1 | 14M | 87.3u | -      | - | 169.0m |
| 14 | 2 | 14M | 77.9u | 1.828m | - | 416.6m |
| 15 | 2 | 14M | 69.3u | 1.609m | - | 602.9m |
| 16 | 1 | 14M | 56.2u | -      | - | 104.6m |
| 17 | 1 | 14M | 99.7u | -      | - | 399.8m |
| 18 | 2 | 14M | 53.6u | 1.552m | - | 494.2m |
| 19 | 1 | 14M | 79.0u | -      | - | 195.2m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_14  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 10   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5533MHz |                  |            |                 |                          |                          |                    |
| 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        | 92.7u           | -                        | -                        | 887.6m             |
| 2                               | 3                | 14M        | 64.5u           | 1.123m                   | 1.453m                   | 993.9m             |
| 3                               | 3                | 14M        | 79.5u           | 1.032m                   | 1.898m                   | 914.2m             |
| 4                               | 2                | 14M        | 72.5u           | 1.066m                   | -                        | 235.3m             |
| 5                               | 3                | 14M        | 69.3u           | 1.795m                   | 1.885m                   | 777.4m             |
| 6                               | 2                | 14M        | 76.1u           | 1.019m                   | -                        | 784.7m             |
| 7                               | 3                | 14M        | 71.3u           | 1.083m                   | 1.707m                   | 633.9m             |
| 8                               | 3                | 14M        | 89.4u           | 1.194m                   | 1.196m                   | 543.2m             |
| 9                               | 2                | 14M        | 75.7u           | 943.3u                   | -                        | 280.3m             |
| 10                              | 3                | 14M        | 80.4u           | 1.683m                   | 1.273m                   | 521.0m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_15  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 11   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5529MHz |                  |            |                 |                          |                          |                    |
| 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        | 51.2u           | 1.554m                   | 1.600m                   | 938.5m             |
| 2                               | 2                | 14M        | 62.1u           | 1.523m                   | -                        | 66.65m             |
| 3                               | 2                | 14M        | 84.1u           | 1.237m                   | -                        | 333.2m             |
| 4                               | 1                | 14M        | 83.6u           | -                        | -                        | 226.5m             |
| 5                               | 2                | 14M        | 94.4u           | 1.354m                   | -                        | 662.1m             |
| 6                               | 3                | 14M        | 73.6u           | 1.860m                   | 1.455m                   | 990.1m             |
| 7                               | 1                | 14M        | 72.7u           | -                        | -                        | 690.2m             |

|    |   |     |       |        |   |        |
|----|---|-----|-------|--------|---|--------|
| 8  | 2 | 14M | 84.4u | 1.778m | - | 809.3m |
| 9  | 2 | 14M | 72.2u | 1.660m | - | 636.3m |
| 10 | 2 | 14M | 95.6u | 1.055m | - | 474.9m |
| 11 | 1 | 14M | 70.9u | -      | - | 98.17m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_16  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5528MHz |                  |            |                 |                          |                          |                    |
| 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        | 72.1u           | 1.176m                   | 1.245m                   | 711.3m             |
| 2                               | 3                | 12M        | 66.5u           | 1.451m                   | 952.5u                   | 689.2m             |
| 3                               | 2                | 12M        | 97.3u           | 1.333m                   | -                        | 62.65m             |
| 4                               | 2                | 12M        | 67.6u           | 1.035m                   | -                        | 387.6m             |
| 5                               | 1                | 12M        | 51.6u           | -                        | -                        | 26.37m             |
| 6                               | 2                | 12M        | 87.9u           | 1.499m                   | -                        | 438.2m             |
| 7                               | 2                | 12M        | 88.9u           | 1.856m                   | -                        | 606.1m             |
| 8                               | 3                | 12M        | 76.6u           | 1.341m                   | 1.440m                   | 646.0m             |
| 9                               | 2                | 12M        | 65.9u           | 1.898m                   | -                        | 262.9m             |
| 10                              | 2                | 12M        | 65.9u           | 1.233m                   | -                        | 530.7m             |
| 11                              | 1                | 12M        | 56.8u           | -                        | -                        | 94.44m             |
| 12                              | 3                | 12M        | 95.3u           | 1.778m                   | 1.437m                   | 485.4m             |
| 13                              | 1                | 12M        | 89.3u           | -                        | -                        | 384.7m             |
| 14                              | 2                | 12M        | 77.2u           | 1.862m                   | -                        | 516.6m             |
| 15                              | 2                | 12M        | 67.4u           | 1.159m                   | -                        | 275.1m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_17  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5527MHz |                  |            |                 |                          |                          |                    |
| 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        | 81.6u           | 1.612m                   | -                        | 637.0m             |
| 2                               | 3                | 12M        | 90.9u           | 1.408m                   | 1.477m                   | 341.8m             |
| 3                               | 3                | 12M        | 80.3u           | 1.062m                   | 1.686m                   | 433.0m             |
| 4                               | 2                | 12M        | 75.5u           | 1.727m                   | -                        | 214.7m             |
| 5                               | 1                | 12M        | 60.4u           | -                        | -                        | 485.5m             |
| 6                               | 2                | 12M        | 66.3u           | 1.927m                   | -                        | 87.10m             |

|    |   |     |       |        |        |        |
|----|---|-----|-------|--------|--------|--------|
| 7  | 2 | 12M | 64.0u | 1.316m | -      | 184.3m |
| 8  | 1 | 12M | 75.3u | -      | -      | 392.1m |
| 9  | 2 | 12M | 99.4u | 1.005m | -      | 9.492m |
| 10 | 2 | 12M | 68.8u | 1.053m | -      | 492.9m |
| 11 | 2 | 12M | 87.1u | 1.357m | -      | 641.1m |
| 12 | 2 | 12M | 58.8u | 1.074m | -      | 519.2m |
| 13 | 2 | 12M | 58.6u | 1.788m | -      | 219.9m |
| 14 | 3 | 12M | 99.7u | 1.593m | 1.282m | 157.8m |
| 15 | 3 | 12M | 72.4u | 1.515m | 1.350m | 755.6m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_18  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5534MHz |                  |            |                 |                          |                          |                    |
| 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        | 81.7u           | 1.402m                   | 1.721m                   | 48.18m             |
| 2                               | 2                | 12M        | 59.9u           | 1.602m                   | -                        | 424.8m             |
| 3                               | 1                | 12M        | 89.9u           | -                        | -                        | 534.9m             |
| 4                               | 2                | 12M        | 71.6u           | 1.654m                   | -                        | 77.70m             |
| 5                               | 3                | 12M        | 91.6u           | 1.405m                   | 1.096m                   | 136.0m             |
| 6                               | 3                | 12M        | 72.6u           | 1.402m                   | 1.899m                   | 322.1m             |
| 7                               | 3                | 12M        | 94.7u           | 1.579m                   | 1.078m                   | 281.5m             |
| 8                               | 1                | 12M        | 78.0u           | -                        | -                        | 111.9m             |
| 9                               | 2                | 12M        | 53.4u           | 1.065m                   | -                        | 496.4m             |
| 10                              | 2                | 12M        | 58.1u           | 1.830m                   | -                        | 74.32m             |
| 11                              | 1                | 12M        | 65.9u           | -                        | -                        | 145.2m             |
| 12                              | 2                | 12M        | 79.8u           | 1.918m                   | -                        | 336.8m             |
| 13                              | 2                | 12M        | 87.9u           | 1.039m                   | -                        | 229.4m             |
| 14                              | 1                | 12M        | 50.2u           | -                        | -                        | 138.3m             |
| 15                              | 3                | 12M        | 59.6u           | 1.741m                   | 1.366m                   | 142.6m             |
| 16                              | 3                | 12M        | 86.9u           | 1.369m                   | 1.489m                   | 448.6m             |
| 17                              | 2                | 12M        | 78.2u           | 971.8u                   | -                        | 615.9m             |
| 18                              | 1                | 12M        | 80.4u           | -                        | -                        | 442.1m             |
| 19                              | 2                | 12M        | 59.4u           | 1.211m                   | -                        | 129.1m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_19  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 17   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5526MHz |                  |            |                 |                          |                          |                    |
| 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         | 97.1u           | 1.264m                   | 1.430m                   | 328.8m             |
| 2                               | 1                | 9M         | 91.0u           | -                        | -                        | 488.2m             |
| 3                               | 2                | 9M         | 53.0u           | 1.114m                   | -                        | 242.3m             |
| 4                               | 3                | 9M         | 62.2u           | 1.021m                   | 1.349m                   | 260.4m             |
| 5                               | 3                | 9M         | 83.4u           | 999.6u                   | 1.416m                   | 342.1m             |
| 6                               | 2                | 9M         | 97.3u           | 1.829m                   | -                        | 53.44m             |
| 7                               | 1                | 9M         | 86.6u           | -                        | -                        | 494.1m             |
| 8                               | 2                | 9M         | 86.3u           | 1.709m                   | -                        | 47.12m             |
| 9                               | 2                | 9M         | 65.9u           | 1.147m                   | -                        | 496.4m             |
| 10                              | 2                | 9M         | 95.9u           | 1.142m                   | -                        | 167.4m             |
| 11                              | 2                | 9M         | 91.3u           | 1.871m                   | -                        | 623.7m             |
| 12                              | 3                | 9M         | 73.8u           | 1.157m                   | 1.923m                   | 162.0m             |
| 13                              | 1                | 9M         | 66.7u           | -                        | -                        | 479.4m             |
| 14                              | 1                | 9M         | 72.0u           | -                        | -                        | 231.6m             |
| 15                              | 2                | 9M         | 52.7u           | 1.902m                   | -                        | 274.7m             |
| 16                              | 1                | 9M         | 87.5u           | -                        | -                        | 558.9m             |
| 17                              | 1                | 9M         | 77.3u           | -                        | -                        | 525.9m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_20  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 18   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5525MHz |                  |            |                 |                          |                          |                    |
| 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                | 9M         | 92.6u           | -                        | -                        | 574.7m             |
| 2                               | 3                | 9M         | 67.9u           | 1.272m                   | 1.316m                   | 302.6m             |
| 3                               | 1                | 9M         | 85.3u           | -                        | -                        | 195.7m             |
| 4                               | 2                | 9M         | 87.8u           | 1.863m                   | -                        | 517.8m             |
| 5                               | 2                | 9M         | 73.7u           | 1.364m                   | -                        | 350.7m             |
| 6                               | 1                | 9M         | 55.8u           | -                        | -                        | 569.5m             |
| 7                               | 3                | 9M         | 99.1u           | 936.9u                   | 1.756m                   | 652.9m             |
| 8                               | 2                | 9M         | 94.5u           | 1.889m                   | -                        | 175.3m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 9  | 2 | 9M | 69.1u | 1.741m | -      | 186.8m |
| 10 | 2 | 9M | 60.2u | 1.826m | -      | 144.5m |
| 11 | 2 | 9M | 90.0u | 1.419m | -      | 500.0m |
| 12 | 2 | 9M | 98.3u | 1.336m | -      | 157.3m |
| 13 | 2 | 9M | 94.4u | 1.660m | -      | 479.9m |
| 14 | 3 | 9M | 91.0u | 1.788m | 1.474m | 137.2m |
| 15 | 1 | 9M | 74.3u | -      | -      | 351.9m |
| 16 | 2 | 9M | 55.0u | 1.665m | -      | 89.03m |
| 17 | 3 | 9M | 85.5u | 981.5u | 1.182m | 444.9m |
| 18 | 2 | 9M | 86.1u | 1.623m | -      | 259.0m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_21  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 15   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5568MHz |                  |            |                 |                          |                          |                    |
| 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                | 9M         | 89.4u           | -                        | -                        | 338.0m             |
| 2                               | 3                | 9M         | 68.3u           | 1.753m                   | 1.438m                   | 613.1m             |
| 3                               | 2                | 9M         | 63.6u           | 1.362m                   | -                        | 303.8m             |
| 4                               | 2                | 9M         | 80.5u           | 993.5u                   | -                        | 595.4m             |
| 5                               | 2                | 9M         | 73.6u           | 1.540m                   | -                        | 78.46m             |
| 6                               | 1                | 9M         | 87.3u           | -                        | -                        | 160.7m             |
| 7                               | 2                | 9M         | 74.5u           | 1.600m                   | -                        | 607.5m             |
| 8                               | 2                | 9M         | 77.4u           | 1.693m                   | -                        | 479.2m             |
| 9                               | 2                | 9M         | 78.4u           | 989.6u                   | -                        | 115.9m             |
| 10                              | 2                | 9M         | 93.1u           | 1.366m                   | -                        | 724.2m             |
| 11                              | 1                | 9M         | 84.2u           | -                        | -                        | 81.00m             |
| 12                              | 1                | 9M         | 74.9u           | -                        | -                        | 557.2m             |
| 13                              | 2                | 9M         | 81.2u           | 1.048m                   | -                        | 738.1m             |
| 14                              | 2                | 9M         | 55.9u           | 1.240m                   | -                        | 186.3m             |
| 15                              | 3                | 9M         | 76.3u           | 1.412m                   | 1.545m                   | 715.8m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_22  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 11   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5567MHz |                  |            |                 |                          |                          |                    |
| 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                | 8M         | 71.1u           | -                        | -                        | 436.6m             |
| 2                               | 1                | 8M         | 87.7u           | -                        | -                        | 18.39m             |
| 3                               | 1                | 8M         | 56.2u           | -                        | -                        | 170.2m             |
| 4                               | 2                | 8M         | 87.7u           | 1.268m                   | -                        | 279.7m             |
| 5                               | 2                | 8M         | 77.9u           | 1.903m                   | -                        | 679.5m             |
| 6                               | 3                | 8M         | 53.6u           | 969.4u                   | 1.477m                   | 1.068              |
| 7                               | 1                | 8M         | 69.4u           | -                        | -                        | 447.7m             |
| 8                               | 2                | 8M         | 93.5u           | 1.630m                   | -                        | 178.2m             |
| 9                               | 2                | 8M         | 52.4u           | 1.119m                   | -                        | 320.4m             |
| 10                              | 2                | 8M         | 76.3u           | 1.579m                   | -                        | 806.7m             |
| 11                              | 2                | 8M         | 72.0u           | 1.881m                   | -                        | 90.84m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_23  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 14   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5566MHz |                  |            |                 |                          |                          |                    |
| 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        | 63.5u           | -                        | -                        | 839.9m             |
| 2                               | 3                | 6M         | 97.5u           | 1.416m                   | 925.5u                   | 48.28m             |
| 3                               | 1                | 15M        | 91.8u           | -                        | -                        | 752.4m             |
| 4                               | 1                | 14M        | 86.5u           | -                        | -                        | 143.7m             |
| 5                               | 2                | 18M        | 71.1u           | 1.545m                   | -                        | 601.8m             |
| 6                               | 1                | 6M         | 82.8u           | -                        | -                        | 148.8m             |
| 7                               | 1                | 7M         | 64.4u           | -                        | -                        | 386.1m             |
| 8                               | 1                | 18M        | 53.6u           | -                        | -                        | 560.5m             |
| 9                               | 1                | 15M        | 98.6u           | -                        | -                        | 725.7m             |
| 10                              | 3                | 19M        | 85.5u           | 1.115m                   | 1.136m                   | 119.7m             |
| 11                              | 1                | 15M        | 100.0u          | -                        | -                        | 278.8m             |
| 12                              | 3                | 12M        | 87.8u           | 946.2u                   | 1.112m                   | 177.8m             |
| 13                              | 2                | 9M         | 61.9u           | 1.555m                   | -                        | 393.5m             |
| 14                              | 3                | 18M        | 86.5u           | 1.084m                   | 1.587m                   | 38.97m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_24  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 9    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5565MHz |                  |            |                 |                          |                          |                    |
| 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                | 8M         | 71.1u           | 1.222m                   | 1.413m                   | 444.6m             |
| 2                               | 2                | 8M         | 59.0u           | 1.893m                   | -                        | 289.7m             |
| 3                               | 2                | 8M         | 60.7u           | 1.211m                   | -                        | 933.9m             |
| 4                               | 3                | 8M         | 68.6u           | 1.430m                   | 1.751m                   | 827.1m             |
| 5                               | 3                | 8M         | 78.0u           | 1.707m                   | 1.351m                   | 65.79m             |
| 6                               | 3                | 8M         | 95.0u           | 1.577m                   | 1.175m                   | 1.235              |
| 7                               | 2                | 8M         | 94.0u           | 1.043m                   | -                        | 1.170              |
| 8                               | 2                | 8M         | 82.2u           | 1.181m                   | -                        | 463.7m             |
| 9                               | 1                | 8M         | 55.8u           | -                        | -                        | 543.3m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_25  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 18   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5565MHz |                  |            |                 |                          |                          |                    |
| 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         | 78.8u           | 1.762m                   | -                        | 465.6m             |
| 2                               | 2                | 6M         | 52.8u           | 1.329m                   | -                        | 583.2m             |
| 3                               | 1                | 6M         | 59.6u           | -                        | -                        | 447.7m             |
| 4                               | 1                | 6M         | 70.0u           | -                        | -                        | 305.9m             |
| 5                               | 2                | 6M         | 64.5u           | 1.427m                   | -                        | 370.3m             |
| 6                               | 1                | 6M         | 94.0u           | -                        | -                        | 355.4m             |
| 7                               | 1                | 6M         | 98.4u           | -                        | -                        | 230.2m             |
| 8                               | 1                | 6M         | 98.8u           | -                        | -                        | 465.8m             |
| 9                               | 3                | 6M         | 93.1u           | 936.9u                   | 1.278m                   | 643.2m             |
| 10                              | 1                | 6M         | 79.3u           | -                        | -                        | 619.5m             |
| 11                              | 1                | 6M         | 96.8u           | -                        | -                        | 60.72m             |
| 12                              | 3                | 6M         | 96.8u           | 1.449m                   | 1.845m                   | 392.2m             |
| 13                              | 3                | 6M         | 62.4u           | 1.516m                   | 1.547m                   | 326.3m             |
| 14                              | 2                | 6M         | 79.7u           | 1.539m                   | -                        | 573.3m             |
| 15                              | 2                | 6M         | 83.8u           | 1.568m                   | -                        | 166.7m             |
| 16                              | 3                | 6M         | 65.1u           | 1.162m                   | 1.623m                   | 29.54m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 17 | 2 | 6M | 64.0u | 1.434m | -      | 440.0m |
| 18 | 3 | 6M | 95.5u | 1.227m | 1.583m | 339.8m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_26  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 16   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5564MHz |                  |            |                 |                          |                          |                    |
| 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         | 58.3u           | 1.169m                   | 1.228m                   | 212.0m             |
| 2                               | 1                | 6M         | 67.9u           | -                        | -                        | 683.3m             |
| 3                               | 2                | 6M         | 76.5u           | 1.176m                   | -                        | 683.9m             |
| 4                               | 2                | 6M         | 54.8u           | 1.298m                   | -                        | 490.2m             |
| 5                               | 3                | 6M         | 79.2u           | 1.024m                   | 1.835m                   | 160.4m             |
| 6                               | 2                | 6M         | 89.3u           | 1.805m                   | -                        | 653.3m             |
| 7                               | 1                | 6M         | 77.2u           | -                        | -                        | 73.40m             |
| 8                               | 3                | 6M         | 89.4u           | 1.249m                   | 1.228m                   | 589.4m             |
| 9                               | 3                | 6M         | 97.7u           | 1.549m                   | 1.052m                   | 484.7m             |
| 10                              | 3                | 6M         | 99.5u           | 1.824m                   | 1.045m                   | 490.8m             |
| 11                              | 2                | 6M         | 62.4u           | 1.758m                   | -                        | 48.28m             |
| 12                              | 2                | 6M         | 99.1u           | 1.202m                   | -                        | 270.9m             |
| 13                              | 3                | 6M         | 92.6u           | 1.079m                   | 1.569m                   | 227.5m             |
| 14                              | 2                | 6M         | 87.4u           | 1.359m                   | -                        | 577.4m             |
| 15                              | 1                | 6M         | 81.1u           | -                        | -                        | 371.3m             |
| 16                              | 3                | 6M         | 50.5u           | 1.117m                   | 996.5u                   | 19.19m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_27  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 16   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5564MHz |                  |            |                 |                          |                          |                    |
| 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         | 61.5u           | 1.386m                   | -                        | 311.0m             |
| 2                               | 3                | 6M         | 67.1u           | 1.513m                   | 1.138m                   | 208.0m             |
| 3                               | 2                | 6M         | 96.6u           | 1.844m                   | -                        | 387.8m             |
| 4                               | 1                | 6M         | 82.7u           | -                        | -                        | 224.5m             |
| 5                               | 2                | 6M         | 67.8u           | 1.718m                   | -                        | 627.0m             |
| 6                               | 2                | 6M         | 87.2u           | 1.177m                   | -                        | 181.9m             |
| 7                               | 2                | 6M         | 67.9u           | 1.705m                   | -                        | 545.1m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 8  | 3 | 6M | 92.8u | 1.251m | 1.284m | 255.7m |
| 9  | 1 | 6M | 68.4u | -      | -      | 724.0m |
| 10 | 3 | 6M | 70.6u | 1.617m | 1.276m | 638.6m |
| 11 | 2 | 6M | 79.2u | 1.690m | -      | 1.461m |
| 12 | 2 | 6M | 66.8u | 1.231m | -      | 710.1m |
| 13 | 2 | 6M | 79.3u | 1.785m | -      | 297.6m |
| 14 | 3 | 6M | 52.6u | 1.716m | 1.394m | 154.1m |
| 15 | 1 | 6M | 51.5u | -      | -      | 341.0m |
| 16 | 2 | 6M | 60.8u | 1.100m | -      | 636.3m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_28  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 9    |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5563MHz |                  |            |                 |                          |                          |                    |
| 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         | 53.7u           | 985.3u                   | 1.100m                   | 677.3m             |
| 2                               | 2                | 5M         | 87.5u           | 1.371m                   | -                        | 858.8m             |
| 3                               | 2                | 5M         | 92.1u           | 1.415m                   | -                        | 312.5m             |
| 4                               | 2                | 5M         | 92.5u           | 1.790m                   | -                        | 890.4m             |
| 5                               | 1                | 5M         | 92.6u           | -                        | -                        | 308.8m             |
| 6                               | 2                | 5M         | 97.7u           | 1.644m                   | -                        | 462.4m             |
| 7                               | 2                | 5M         | 77.6u           | 1.302m                   | -                        | 313.9m             |
| 8                               | 2                | 5M         | 58.4u           | 1.411m                   | -                        | 609.2m             |
| 9                               | 3                | 5M         | 61.9u           | 1.171m                   | 1.289m                   | 854.2m             |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_29  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5563MHz |                  |            |                 |                          |                          |                    |
| 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         | 61.2u           | 1.793m                   | 1.857m                   | 398.8m             |
| 2                               | 1                | 5M         | 53.7u           | -                        | -                        | 300.3m             |
| 3                               | 2                | 5M         | 82.7u           | 1.900m                   | -                        | 154.0m             |
| 4                               | 3                | 5M         | 98.8u           | 1.369m                   | 1.879m                   | 7.212m             |
| 5                               | 2                | 5M         | 54.9u           | 1.516m                   | -                        | 475.2m             |
| 6                               | 3                | 5M         | 57.2u           | 1.640m                   | 1.396m                   | 427.7m             |
| 7                               | 2                | 5M         | 91.6u           | 1.507m                   | -                        | 435.3m             |

|    |   |    |       |        |        |        |
|----|---|----|-------|--------|--------|--------|
| 8  | 2 | 5M | 69.8u | 1.897m | -      | 349.7m |
| 9  | 2 | 5M | 58.1u | 1.668m | -      | 584.4m |
| 10 | 2 | 5M | 81.6u | 1.380m | -      | 184.8m |
| 11 | 2 | 5M | 57.5u | 1.242m | -      | 221.2m |
| 12 | 3 | 5M | 92.2u | 1.227m | 913.8u | 353.3m |
| 13 | 2 | 5M | 81.9u | 1.129m | -      | 486.4m |
| 14 | 2 | 5M | 66.9u | 1.395m | -      | 235.5m |
| 15 | 1 | 5M | 67.9u | -      | -      | 415.5m |
| 16 | 3 | 5M | 99.2u | 1.884m | 1.803m | 462.9m |
| 17 | 2 | 5M | 71.2u | 1.043m | -      | 214.2m |
| 18 | 1 | 5M | 70.9u | -      | -      | 379.4m |
| 19 | 2 | 5M | 68.8u | 1.209m | -      | 322.3m |

| Long Pulse Radar Test Signal    |                  |            |                 |                          |                          |                    |
|---------------------------------|------------------|------------|-----------------|--------------------------|--------------------------|--------------------|
| Test Signal Name: LP_Signal_30  |                  |            |                 |                          |                          |                    |
| Number of Bursts in Trial: 19   |                  |            |                 |                          |                          |                    |
| Chrip Center Frequency: 5561MHz |                  |            |                 |                          |                          |                    |
| 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                | 5M         | 50.4u           | 1.916m                   | -                        | 334.6m             |
| 2                               | 2                | 5M         | 54.2u           | 1.760m                   | -                        | 40.17m             |
| 3                               | 2                | 5M         | 66.7u           | 1.591m                   | -                        | 375.0m             |
| 4                               | 1                | 5M         | 81.8u           | -                        | -                        | 224.8m             |
| 5                               | 3                | 5M         | 85.3u           | 1.562m                   | 1.550m                   | 598.5m             |
| 6                               | 2                | 5M         | 50.9u           | 1.097m                   | -                        | 247.8m             |
| 7                               | 3                | 5M         | 71.5u           | 1.403m                   | 1.250m                   | 384.9m             |
| 8                               | 1                | 5M         | 57.3u           | -                        | -                        | 545.1m             |
| 9                               | 1                | 5M         | 99.4u           | -                        | -                        | 327.7m             |
| 10                              | 2                | 5M         | 81.7u           | 1.762m                   | -                        | 346.5m             |
| 11                              | 3                | 5M         | 87.0u           | 1.625m                   | 1.683m                   | 237.2m             |
| 12                              | 2                | 5M         | 94.9u           | 1.522m                   | -                        | 585.4m             |
| 13                              | 2                | 5M         | 83.5u           | 1.529m                   | -                        | 480.1m             |
| 14                              | 2                | 5M         | 66.1u           | 1.677m                   | -                        | 545.9m             |
| 15                              | 2                | 5M         | 52.9u           | 1.709m                   | -                        | 563.8m             |
| 16                              | 3                | 5M         | 51.5u           | 1.865m                   | 1.887m                   | 433.2m             |
| 17                              | 1                | 5M         | 82.8u           | -                        | -                        | 4.846m             |
| 18                              | 2                | 5M         | 84.6u           | 957.4u                   | -                        | 397.1m             |
| 19                              | 3                | 5M         | 70.6u           | 1.247m                   | 1.791m                   | 432.2m             |

| Type 6 Radar Statistical Performances |                                 |                         |
|---------------------------------------|---------------------------------|-------------------------|
| Trial #                               | Hopping Frequency Sequence Name | Detection               |
| 1                                     | HOP_FREQ_SEQ_01                 | Yes                     |
| 2                                     | HOP_FREQ_SEQ_02                 | Yes                     |
| 3                                     | HOP_FREQ_SEQ_03                 | Yes                     |
| 4                                     | HOP_FREQ_SEQ_04                 | Yes                     |
| 5                                     | HOP_FREQ_SEQ_05                 | Yes                     |
| 6                                     | HOP_FREQ_SEQ_06                 | Yes                     |
| 7                                     | HOP_FREQ_SEQ_07                 | Yes                     |
| 8                                     | HOP_FREQ_SEQ_08                 | Yes                     |
| 9                                     | HOP_FREQ_SEQ_09                 | Yes                     |
| 10                                    | HOP_FREQ_SEQ_10                 | Yes                     |
| 11                                    | HOP_FREQ_SEQ_11                 | Yes                     |
| 12                                    | HOP_FREQ_SEQ_12                 | Yes                     |
| 13                                    | HOP_FREQ_SEQ_13                 | Yes                     |
| 14                                    | HOP_FREQ_SEQ_14                 | Yes                     |
| 15                                    | HOP_FREQ_SEQ_15                 | Yes                     |
| 16                                    | HOP_FREQ_SEQ_16                 | Yes                     |
| 17                                    | HOP_FREQ_SEQ_17                 | Yes                     |
| 18                                    | HOP_FREQ_SEQ_18                 | Yes                     |
| 19                                    | HOP_FREQ_SEQ_19                 | Yes                     |
| 20                                    | HOP_FREQ_SEQ_20                 | Yes                     |
| 21                                    | HOP_FREQ_SEQ_21                 | Yes                     |
| 22                                    | HOP_FREQ_SEQ_22                 | Yes                     |
| 23                                    | HOP_FREQ_SEQ_23                 | Yes                     |
| 24                                    | HOP_FREQ_SEQ_24                 | Yes                     |
| 25                                    | HOP_FREQ_SEQ_25                 | Yes                     |
| 26                                    | HOP_FREQ_SEQ_26                 | Yes                     |
| 27                                    | HOP_FREQ_SEQ_27                 | Yes                     |
| 28                                    | HOP_FREQ_SEQ_28                 | Yes                     |
| 29                                    | HOP_FREQ_SEQ_29                 | Yes                     |
| 30                                    | HOP_FREQ_SEQ_30                 | Yes                     |
|                                       |                                 | Detection Rate: 100.0 % |

| Type 6 Radar Statistical Performances |                                 |                         |
|---------------------------------------|---------------------------------|-------------------------|
| Trial #                               | Hopping Frequency Sequence Name | Detection               |
| 1                                     | HOP_FREQ_SEQ_01                 | Yes                     |
| 2                                     | HOP_FREQ_SEQ_02                 | Yes                     |
| 3                                     | HOP_FREQ_SEQ_03                 | Yes                     |
| 4                                     | HOP_FREQ_SEQ_04                 | Yes                     |
| 5                                     | HOP_FREQ_SEQ_05                 | Yes                     |
| 6                                     | HOP_FREQ_SEQ_06                 | Yes                     |
| 7                                     | HOP_FREQ_SEQ_07                 | Yes                     |
| 8                                     | HOP_FREQ_SEQ_08                 | Yes                     |
| 9                                     | HOP_FREQ_SEQ_09                 | Yes                     |
| 10                                    | HOP_FREQ_SEQ_10                 | Yes                     |
| 11                                    | HOP_FREQ_SEQ_11                 | Yes                     |
| 12                                    | HOP_FREQ_SEQ_12                 | Yes                     |
| 13                                    | HOP_FREQ_SEQ_13                 | Yes                     |
| 14                                    | HOP_FREQ_SEQ_14                 | Yes                     |
| 15                                    | HOP_FREQ_SEQ_15                 | Yes                     |
| 16                                    | HOP_FREQ_SEQ_16                 | Yes                     |
| 17                                    | HOP_FREQ_SEQ_17                 | Yes                     |
| 18                                    | HOP_FREQ_SEQ_18                 | Yes                     |
| 19                                    | HOP_FREQ_SEQ_19                 | Yes                     |
| 20                                    | HOP_FREQ_SEQ_20                 | Yes                     |
| 21                                    | HOP_FREQ_SEQ_21                 | Yes                     |
| 22                                    | HOP_FREQ_SEQ_22                 | Yes                     |
| 23                                    | HOP_FREQ_SEQ_23                 | Yes                     |
| 24                                    | HOP_FREQ_SEQ_24                 | Yes                     |
| 25                                    | HOP_FREQ_SEQ_25                 | Yes                     |
| 26                                    | HOP_FREQ_SEQ_26                 | Yes                     |
| 27                                    | HOP_FREQ_SEQ_27                 | Yes                     |
| 28                                    | HOP_FREQ_SEQ_28                 | Yes                     |
| 29                                    | HOP_FREQ_SEQ_29                 | Yes                     |
| 30                                    | HOP_FREQ_SEQ_30                 | Yes                     |
|                                       |                                 | Detection Rate: 100.0 % |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.584G            | 2    | 5.650G            | 3    | 5.556G            | 4    | 5.372G            |
| 5                                                | 5.441G            | 6    | 5.637G            | 7    | 5.635G            | 8    | 5.288G            |
| 9                                                | 5.697G            | 10   | 5.412G            | 11   | 5.323G            | 12   | 5.452G            |
| 13                                               | 5.659G            | 14   | 5.460G            | 15   | 5.641G            | 16   | 5.681G            |
| 17                                               | 5.374G            | 18   | 5.301G            | 19   | 5.510G            | 20   | 5.468G            |
| 21                                               | 5.585G            | 22   | 5.486G            | 23   | 5.314G            | 24   | 5.677G            |
| 25                                               | 5.655G            | 26   | 5.570G            | 27   | 5.687G            | 28   | 5.675G            |
| 29                                               | 5.572G            | 30   | 5.583G            | 31   | 5.505G            | 32   | 5.698G            |
| 33                                               | 5.350G            | 34   | 5.551G            | 35   | 5.597G            | 36   | 5.707G            |
| 37                                               | 5.333G            | 38   | 5.617G            | 39   | 5.259G            | 40   | 5.663G            |
| 41                                               | 5.620G            | 42   | 5.398G            | 43   | 5.366G            | 44   | 5.685G            |
| 45                                               | 5.516G            | 46   | 5.630G            | 47   | 5.633G            | 48   | 5.445G            |
| 49                                               | 5.458G            | 50   | 5.345G            | 51   | 5.680G            | 52   | 5.592G            |
| 53                                               | 5.396G            | 54   | 5.463G            | 55   | 5.469G            | 56   | 5.672G            |
| 57                                               | 5.518G            | 58   | 5.648G            | 59   | 5.435G            | 60   | 5.297G            |
| 61                                               | 5.332G            | 62   | 5.526G            | 63   | 5.586G            | 64   | 5.609G            |
| 65                                               | 5.657G            | 66   | 5.430G            | 67   | 5.274G            | 68   | 5.471G            |
| 69                                               | 5.310G            | 70   | 5.504G            | 71   | 5.673G            | 72   | 5.281G            |
| 73                                               | 5.682G            | 74   | 5.498G            | 75   | 5.688G            | 76   | 5.544G            |
| 77                                               | 5.712G            | 78   | 5.634G            | 79   | 5.608G            | 80   | 5.282G            |
| 81                                               | 5.631G            | 82   | 5.415G            | 83   | 5.699G            | 84   | 5.360G            |
| 85                                               | 5.283G            | 86   | 5.316G            | 87   | 5.472G            | 88   | 5.449G            |
| 89                                               | 5.694G            | 90   | 5.269G            | 91   | 5.700G            | 92   | 5.294G            |
| 93                                               | 5.692G            | 94   | 5.286G            | 95   | 5.501G            | 96   | 5.689G            |
| 97                                               | 5.324G            | 98   | 5.588G            | 99   | 5.536G            | 100  | 5.579G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.346G            | 2    | 5.501G            | 3    | 5.272G            | 4    | 5.295G            |
| 5                                                | 5.403G            | 6    | 5.712G            | 7    | 5.613G            | 8    | 5.429G            |
| 9                                                | 5.263G            | 10   | 5.351G            | 11   | 5.476G            | 12   | 5.323G            |
| 13                                               | 5.606G            | 14   | 5.355G            | 15   | 5.603G            | 16   | 5.402G            |
| 17                                               | 5.721G            | 18   | 5.330G            | 19   | 5.557G            | 20   | 5.354G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 21 | 5.315G | 22 | 5.465G | 23 | 5.590G | 24  | 5.704G |
| 25 | 5.551G | 26 | 5.303G | 27 | 5.638G | 28  | 5.493G |
| 29 | 5.480G | 30 | 5.709G | 31 | 5.438G | 32  | 5.255G |
| 33 | 5.344G | 34 | 5.256G | 35 | 5.651G | 36  | 5.460G |
| 37 | 5.660G | 38 | 5.343G | 39 | 5.277G | 40  | 5.436G |
| 41 | 5.658G | 42 | 5.370G | 43 | 5.286G | 44  | 5.446G |
| 45 | 5.655G | 46 | 5.517G | 47 | 5.394G | 48  | 5.360G |
| 49 | 5.648G | 50 | 5.425G | 51 | 5.612G | 52  | 5.620G |
| 53 | 5.592G | 54 | 5.570G | 55 | 5.518G | 56  | 5.298G |
| 57 | 5.632G | 58 | 5.600G | 59 | 5.448G | 60  | 5.258G |
| 61 | 5.487G | 62 | 5.701G | 63 | 5.297G | 64  | 5.449G |
| 65 | 5.691G | 66 | 5.450G | 67 | 5.565G | 68  | 5.348G |
| 69 | 5.679G | 70 | 5.629G | 71 | 5.380G | 72  | 5.453G |
| 73 | 5.584G | 74 | 5.335G | 75 | 5.591G | 76  | 5.705G |
| 77 | 5.398G | 78 | 5.270G | 79 | 5.622G | 80  | 5.514G |
| 81 | 5.434G | 82 | 5.369G | 83 | 5.485G | 84  | 5.301G |
| 85 | 5.345G | 86 | 5.618G | 87 | 5.452G | 88  | 5.441G |
| 89 | 5.474G | 90 | 5.250G | 91 | 5.616G | 92  | 5.710G |
| 93 | 5.468G | 94 | 5.513G | 95 | 5.692G | 96  | 5.334G |
| 97 | 5.504G | 98 | 5.347G | 99 | 5.280G | 100 | 5.400G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.520G            | 2    | 5.463G            | 3    | 5.410G            | 4    | 5.684G            |
| 5                                                | 5.482G            | 6    | 5.448G            | 7    | 5.370G            | 8    | 5.610G            |
| 9                                                | 5.413G            | 10   | 5.667G            | 11   | 5.326G            | 12   | 5.381G            |
| 13                                               | 5.443G            | 14   | 5.583G            | 15   | 5.334G            | 16   | 5.642G            |
| 17                                               | 5.414G            | 18   | 5.457G            | 19   | 5.385G            | 20   | 5.412G            |
| 21                                               | 5.382G            | 22   | 5.578G            | 23   | 5.670G            | 24   | 5.465G            |
| 25                                               | 5.483G            | 26   | 5.257G            | 27   | 5.323G            | 28   | 5.674G            |
| 29                                               | 5.536G            | 30   | 5.384G            | 31   | 5.596G            | 32   | 5.722G            |
| 33                                               | 5.269G            | 34   | 5.643G            | 35   | 5.560G            | 36   | 5.628G            |
| 37                                               | 5.580G            | 38   | 5.415G            | 39   | 5.369G            | 40   | 5.636G            |
| 41                                               | 5.660G            | 42   | 5.477G            | 43   | 5.678G            | 44   | 5.492G            |
| 45                                               | 5.624G            | 46   | 5.337G            | 47   | 5.400G            | 48   | 5.698G            |
| 49                                               | 5.640G            | 50   | 5.260G            | 51   | 5.564G            | 52   | 5.403G            |
| 53                                               | 5.427G            | 54   | 5.627G            | 55   | 5.350G            | 56   | 5.611G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 57 | 5.566G | 58 | 5.691G | 59 | 5.358G | 60  | 5.648G |
| 61 | 5.262G | 62 | 5.429G | 63 | 5.378G | 64  | 5.590G |
| 65 | 5.393G | 66 | 5.278G | 67 | 5.718G | 68  | 5.312G |
| 69 | 5.529G | 70 | 5.305G | 71 | 5.552G | 72  | 5.650G |
| 73 | 5.454G | 74 | 5.330G | 75 | 5.422G | 76  | 5.341G |
| 77 | 5.356G | 78 | 5.485G | 79 | 5.551G | 80  | 5.588G |
| 81 | 5.544G | 82 | 5.716G | 83 | 5.304G | 84  | 5.659G |
| 85 | 5.277G | 86 | 5.703G | 87 | 5.472G | 88  | 5.575G |
| 89 | 5.537G | 90 | 5.294G | 91 | 5.690G | 92  | 5.380G |
| 93 | 5.614G | 94 | 5.362G | 95 | 5.423G | 96  | 5.311G |
| 97 | 5.637G | 98 | 5.540G | 99 | 5.270G | 100 | 5.302G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.397G         | 2    | 5.383G         | 3    | 5.462G         | 4    | 5.338G         |
| 5                                                | 5.267G         | 6    | 5.261G         | 7    | 5.454G         | 8    | 5.500G         |
| 9                                                | 5.603G         | 10   | 5.568G         | 11   | 5.328G         | 12   | 5.467G         |
| 13                                               | 5.629G         | 14   | 5.612G         | 15   | 5.544G         | 16   | 5.375G         |
| 17                                               | 5.325G         | 18   | 5.507G         | 19   | 5.514G         | 20   | 5.433G         |
| 21                                               | 5.718G         | 22   | 5.526G         | 23   | 5.497G         | 24   | 5.520G         |
| 25                                               | 5.555G         | 26   | 5.389G         | 27   | 5.628G         | 28   | 5.511G         |
| 29                                               | 5.435G         | 30   | 5.424G         | 31   | 5.319G         | 32   | 5.453G         |
| 33                                               | 5.493G         | 34   | 5.311G         | 35   | 5.641G         | 36   | 5.415G         |
| 37                                               | 5.547G         | 38   | 5.655G         | 39   | 5.711G         | 40   | 5.579G         |
| 41                                               | 5.702G         | 42   | 5.260G         | 43   | 5.336G         | 44   | 5.278G         |
| 45                                               | 5.314G         | 46   | 5.587G         | 47   | 5.688G         | 48   | 5.598G         |
| 49                                               | 5.443G         | 50   | 5.719G         | 51   | 5.291G         | 52   | 5.428G         |
| 53                                               | 5.441G         | 54   | 5.377G         | 55   | 5.385G         | 56   | 5.315G         |
| 57                                               | 5.609G         | 58   | 5.274G         | 59   | 5.409G         | 60   | 5.546G         |
| 61                                               | 5.431G         | 62   | 5.288G         | 63   | 5.324G         | 64   | 5.341G         |
| 65                                               | 5.376G         | 66   | 5.689G         | 67   | 5.541G         | 68   | 5.422G         |
| 69                                               | 5.695G         | 70   | 5.679G         | 71   | 5.618G         | 72   | 5.465G         |
| 73                                               | 5.255G         | 74   | 5.590G         | 75   | 5.634G         | 76   | 5.388G         |
| 77                                               | 5.406G         | 78   | 5.420G         | 79   | 5.309G         | 80   | 5.362G         |
| 81                                               | 5.425G         | 82   | 5.605G         | 83   | 5.624G         | 84   | 5.374G         |
| 85                                               | 5.366G         | 86   | 5.360G         | 87   | 5.645G         | 88   | 5.297G         |
| 89                                               | 5.556G         | 90   | 5.554G         | 91   | 5.351G         | 92   | 5.596G         |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 93 | 5.302G | 94 | 5.470G | 95 | 5.654G | 96  | 5.299G |
| 97 | 5.481G | 98 | 5.606G | 99 | 5.487G | 100 | 5.343G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.421G         | 2    | 5.644G         | 3    | 5.275G         | 4    | 5.412G         |
| 5                                                | 5.320G         | 6    | 5.350G         | 7    | 5.652G         | 8    | 5.620G         |
| 9                                                | 5.548G         | 10   | 5.601G         | 11   | 5.640G         | 12   | 5.450G         |
| 13                                               | 5.582G         | 14   | 5.702G         | 15   | 5.311G         | 16   | 5.349G         |
| 17                                               | 5.489G         | 18   | 5.605G         | 19   | 5.698G         | 20   | 5.407G         |
| 21                                               | 5.478G         | 22   | 5.545G         | 23   | 5.267G         | 24   | 5.658G         |
| 25                                               | 5.376G         | 26   | 5.707G         | 27   | 5.592G         | 28   | 5.696G         |
| 29                                               | 5.655G         | 30   | 5.504G         | 31   | 5.271G         | 32   | 5.416G         |
| 33                                               | 5.667G         | 34   | 5.673G         | 35   | 5.347G         | 36   | 5.700G         |
| 37                                               | 5.307G         | 38   | 5.723G         | 39   | 5.357G         | 40   | 5.522G         |
| 41                                               | 5.417G         | 42   | 5.257G         | 43   | 5.383G         | 44   | 5.419G         |
| 45                                               | 5.714G         | 46   | 5.393G         | 47   | 5.261G         | 48   | 5.508G         |
| 49                                               | 5.485G         | 50   | 5.260G         | 51   | 5.318G         | 52   | 5.628G         |
| 53                                               | 5.278G         | 54   | 5.430G         | 55   | 5.520G         | 56   | 5.392G         |
| 57                                               | 5.358G         | 58   | 5.270G         | 59   | 5.627G         | 60   | 5.557G         |
| 61                                               | 5.558G         | 62   | 5.305G         | 63   | 5.526G         | 64   | 5.314G         |
| 65                                               | 5.528G         | 66   | 5.555G         | 67   | 5.540G         | 68   | 5.380G         |
| 69                                               | 5.573G         | 70   | 5.268G         | 71   | 5.459G         | 72   | 5.482G         |
| 73                                               | 5.653G         | 74   | 5.353G         | 75   | 5.306G         | 76   | 5.324G         |
| 77                                               | 5.497G         | 78   | 5.693G         | 79   | 5.362G         | 80   | 5.514G         |
| 81                                               | 5.581G         | 82   | 5.415G         | 83   | 5.368G         | 84   | 5.599G         |
| 85                                               | 5.291G         | 86   | 5.704G         | 87   | 5.503G         | 88   | 5.564G         |
| 89                                               | 5.611G         | 90   | 5.634G         | 91   | 5.560G         | 92   | 5.300G         |
| 93                                               | 5.646G         | 94   | 5.561G         | 95   | 5.692G         | 96   | 5.633G         |
| 97                                               | 5.635G         | 98   | 5.492G         | 99   | 5.312G         | 100  | 5.690G         |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.510G         | 2    | 5.475G         | 3    | 5.466G         | 4    | 5.512G         |
| 5                                                | 5.665G         | 6    | 5.493G         | 7    | 5.595G         | 8    | 5.412G         |
| 9                                                | 5.488G         | 10   | 5.435G         | 11   | 5.408G         | 12   | 5.263G         |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 13 | 5.569G | 14 | 5.713G | 15 | 5.269G | 16  | 5.687G |
| 17 | 5.554G | 18 | 5.392G | 19 | 5.455G | 20  | 5.592G |
| 21 | 5.264G | 22 | 5.670G | 23 | 5.660G | 24  | 5.614G |
| 25 | 5.715G | 26 | 5.560G | 27 | 5.591G | 28  | 5.461G |
| 29 | 5.290G | 30 | 5.278G | 31 | 5.714G | 32  | 5.365G |
| 33 | 5.650G | 34 | 5.307G | 35 | 5.432G | 36  | 5.641G |
| 37 | 5.490G | 38 | 5.417G | 39 | 5.265G | 40  | 5.457G |
| 41 | 5.367G | 42 | 5.598G | 43 | 5.308G | 44  | 5.669G |
| 45 | 5.287G | 46 | 5.413G | 47 | 5.312G | 48  | 5.389G |
| 49 | 5.495G | 50 | 5.530G | 51 | 5.532G | 52  | 5.525G |
| 53 | 5.697G | 54 | 5.619G | 55 | 5.494G | 56  | 5.577G |
| 57 | 5.563G | 58 | 5.342G | 59 | 5.288G | 60  | 5.313G |
| 61 | 5.513G | 62 | 5.636G | 63 | 5.316G | 64  | 5.428G |
| 65 | 5.304G | 66 | 5.326G | 67 | 5.681G | 68  | 5.584G |
| 69 | 5.272G | 70 | 5.363G | 71 | 5.460G | 72  | 5.468G |
| 73 | 5.710G | 74 | 5.362G | 75 | 5.722G | 76  | 5.262G |
| 77 | 5.385G | 78 | 5.482G | 79 | 5.336G | 80  | 5.390G |
| 81 | 5.688G | 82 | 5.277G | 83 | 5.407G | 84  | 5.393G |
| 85 | 5.334G | 86 | 5.372G | 87 | 5.422G | 88  | 5.322G |
| 89 | 5.581G | 90 | 5.559G | 91 | 5.346G | 92  | 5.380G |
| 93 | 5.515G | 94 | 5.258G | 95 | 5.606G | 96  | 5.406G |
| 97 | 5.564G | 98 | 5.444G | 99 | 5.613G | 100 | 5.526G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.551G            | 2    | 5.676G            | 3    | 5.484G            | 4    | 5.572G            |
| 5                                                | 5.380G            | 6    | 5.718G            | 7    | 5.660G            | 8    | 5.644G            |
| 9                                                | 5.397G            | 10   | 5.438G            | 11   | 5.410G            | 12   | 5.256G            |
| 13                                               | 5.538G            | 14   | 5.542G            | 15   | 5.550G            | 16   | 5.480G            |
| 17                                               | 5.413G            | 18   | 5.461G            | 19   | 5.463G            | 20   | 5.369G            |
| 21                                               | 5.640G            | 22   | 5.383G            | 23   | 5.375G            | 24   | 5.488G            |
| 25                                               | 5.570G            | 26   | 5.281G            | 27   | 5.613G            | 28   | 5.282G            |
| 29                                               | 5.310G            | 30   | 5.273G            | 31   | 5.724G            | 32   | 5.622G            |
| 33                                               | 5.633G            | 34   | 5.267G            | 35   | 5.715G            | 36   | 5.523G            |
| 37                                               | 5.632G            | 38   | 5.620G            | 39   | 5.567G            | 40   | 5.589G            |
| 41                                               | 5.318G            | 42   | 5.263G            | 43   | 5.378G            | 44   | 5.716G            |
| 45                                               | 5.289G            | 46   | 5.568G            | 47   | 5.710G            | 48   | 5.516G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 49 | 5.606G | 50 | 5.337G | 51 | 5.283G | 52  | 5.717G |
| 53 | 5.424G | 54 | 5.651G | 55 | 5.711G | 56  | 5.707G |
| 57 | 5.698G | 58 | 5.462G | 59 | 5.518G | 60  | 5.445G |
| 61 | 5.360G | 62 | 5.653G | 63 | 5.307G | 64  | 5.341G |
| 65 | 5.581G | 66 | 5.457G | 67 | 5.601G | 68  | 5.345G |
| 69 | 5.658G | 70 | 5.431G | 71 | 5.648G | 72  | 5.253G |
| 73 | 5.683G | 74 | 5.384G | 75 | 5.398G | 76  | 5.459G |
| 77 | 5.254G | 78 | 5.607G | 79 | 5.301G | 80  | 5.417G |
| 81 | 5.347G | 82 | 5.643G | 83 | 5.712G | 84  | 5.514G |
| 85 | 5.576G | 86 | 5.610G | 87 | 5.386G | 88  | 5.381G |
| 89 | 5.476G | 90 | 5.680G | 91 | 5.272G | 92  | 5.477G |
| 93 | 5.565G | 94 | 5.450G | 95 | 5.414G | 96  | 5.343G |
| 97 | 5.497G | 98 | 5.405G | 99 | 5.503G | 100 | 5.577G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.452G            | 2    | 5.443G            | 3    | 5.458G            | 4    | 5.492G            |
| 5                                                | 5.281G            | 6    | 5.280G            | 7    | 5.290G            | 8    | 5.685G            |
| 9                                                | 5.655G            | 10   | 5.636G            | 11   | 5.369G            | 12   | 5.320G            |
| 13                                               | 5.272G            | 14   | 5.644G            | 15   | 5.250G            | 16   | 5.695G            |
| 17                                               | 5.303G            | 18   | 5.268G            | 19   | 5.384G            | 20   | 5.351G            |
| 21                                               | 5.620G            | 22   | 5.588G            | 23   | 5.447G            | 24   | 5.283G            |
| 25                                               | 5.658G            | 26   | 5.566G            | 27   | 5.457G            | 28   | 5.476G            |
| 29                                               | 5.626G            | 30   | 5.325G            | 31   | 5.679G            | 32   | 5.590G            |
| 33                                               | 5.282G            | 34   | 5.538G            | 35   | 5.269G            | 36   | 5.539G            |
| 37                                               | 5.408G            | 38   | 5.400G            | 39   | 5.604G            | 40   | 5.371G            |
| 41                                               | 5.520G            | 42   | 5.499G            | 43   | 5.274G            | 44   | 5.352G            |
| 45                                               | 5.436G            | 46   | 5.505G            | 47   | 5.394G            | 48   | 5.617G            |
| 49                                               | 5.330G            | 50   | 5.652G            | 51   | 5.700G            | 52   | 5.317G            |
| 53                                               | 5.592G            | 54   | 5.473G            | 55   | 5.398G            | 56   | 5.573G            |
| 57                                               | 5.393G            | 58   | 5.674G            | 59   | 5.635G            | 60   | 5.546G            |
| 61                                               | 5.370G            | 62   | 5.542G            | 63   | 5.376G            | 64   | 5.561G            |
| 65                                               | 5.385G            | 66   | 5.606G            | 67   | 5.516G            | 68   | 5.613G            |
| 69                                               | 5.701G            | 70   | 5.510G            | 71   | 5.397G            | 72   | 5.332G            |
| 73                                               | 5.642G            | 74   | 5.651G            | 75   | 5.430G            | 76   | 5.551G            |
| 77                                               | 5.560G            | 78   | 5.316G            | 79   | 5.302G            | 80   | 5.382G            |
| 81                                               | 5.714G            | 82   | 5.341G            | 83   | 5.429G            | 84   | 5.693G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 85 | 5.523G | 86 | 5.470G | 87 | 5.252G | 88  | 5.420G |
| 89 | 5.266G | 90 | 5.563G | 91 | 5.472G | 92  | 5.601G |
| 93 | 5.273G | 94 | 5.340G | 95 | 5.296G | 96  | 5.333G |
| 97 | 5.441G | 98 | 5.550G | 99 | 5.475G | 100 | 5.678G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.618G            | 2    | 5.628G            | 3    | 5.634G            | 4    | 5.468G            |
| 5                                                | 5.711G            | 6    | 5.257G            | 7    | 5.588G            | 8    | 5.445G            |
| 9                                                | 5.625G            | 10   | 5.675G            | 11   | 5.527G            | 12   | 5.470G            |
| 13                                               | 5.707G            | 14   | 5.438G            | 15   | 5.559G            | 16   | 5.499G            |
| 17                                               | 5.388G            | 18   | 5.662G            | 19   | 5.594G            | 20   | 5.394G            |
| 21                                               | 5.354G            | 22   | 5.678G            | 23   | 5.418G            | 24   | 5.332G            |
| 25                                               | 5.696G            | 26   | 5.716G            | 27   | 5.621G            | 28   | 5.450G            |
| 29                                               | 5.348G            | 30   | 5.434G            | 31   | 5.452G            | 32   | 5.368G            |
| 33                                               | 5.382G            | 34   | 5.254G            | 35   | 5.578G            | 36   | 5.377G            |
| 37                                               | 5.269G            | 38   | 5.554G            | 39   | 5.449G            | 40   | 5.430G            |
| 41                                               | 5.383G            | 42   | 5.623G            | 43   | 5.401G            | 44   | 5.399G            |
| 45                                               | 5.550G            | 46   | 5.586G            | 47   | 5.581G            | 48   | 5.308G            |
| 49                                               | 5.512G            | 50   | 5.275G            | 51   | 5.362G            | 52   | 5.363G            |
| 53                                               | 5.576G            | 54   | 5.671G            | 55   | 5.342G            | 56   | 5.381G            |
| 57                                               | 5.284G            | 58   | 5.390G            | 59   | 5.605G            | 60   | 5.455G            |
| 61                                               | 5.503G            | 62   | 5.547G            | 63   | 5.562G            | 64   | 5.429G            |
| 65                                               | 5.704G            | 66   | 5.426G            | 67   | 5.411G            | 68   | 5.613G            |
| 69                                               | 5.584G            | 70   | 5.311G            | 71   | 5.501G            | 72   | 5.537G            |
| 73                                               | 5.451G            | 74   | 5.717G            | 75   | 5.709G            | 76   | 5.695G            |
| 77                                               | 5.303G            | 78   | 5.369G            | 79   | 5.514G            | 80   | 5.570G            |
| 81                                               | 5.665G            | 82   | 5.592G            | 83   | 5.631G            | 84   | 5.253G            |
| 85                                               | 5.622G            | 86   | 5.463G            | 87   | 5.469G            | 88   | 5.518G            |
| 89                                               | 5.437G            | 90   | 5.642G            | 91   | 5.630G            | 92   | 5.398G            |
| 93                                               | 5.491G            | 94   | 5.367G            | 95   | 5.346G            | 96   | 5.425G            |
| 97                                               | 5.414G            | 98   | 5.640G            | 99   | 5.321G            | 100  | 5.393G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.314G            | 2    | 5.430G            | 3    | 5.302G            | 4    | 5.313G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 5  | 5.617G | 6  | 5.493G | 7  | 5.598G | 8   | 5.300G |
| 9  | 5.712G | 10 | 5.573G | 11 | 5.578G | 12  | 5.340G |
| 13 | 5.359G | 14 | 5.593G | 15 | 5.351G | 16  | 5.451G |
| 17 | 5.354G | 18 | 5.389G | 19 | 5.275G | 20  | 5.625G |
| 21 | 5.515G | 22 | 5.574G | 23 | 5.404G | 24  | 5.552G |
| 25 | 5.426G | 26 | 5.561G | 27 | 5.685G | 28  | 5.555G |
| 29 | 5.592G | 30 | 5.363G | 31 | 5.717G | 32  | 5.347G |
| 33 | 5.252G | 34 | 5.701G | 35 | 5.614G | 36  | 5.608G |
| 37 | 5.671G | 38 | 5.449G | 39 | 5.556G | 40  | 5.371G |
| 41 | 5.373G | 42 | 5.652G | 43 | 5.365G | 44  | 5.304G |
| 45 | 5.537G | 46 | 5.634G | 47 | 5.281G | 48  | 5.647G |
| 49 | 5.324G | 50 | 5.544G | 51 | 5.447G | 52  | 5.437G |
| 53 | 5.400G | 54 | 5.289G | 55 | 5.325G | 56  | 5.505G |
| 57 | 5.603G | 58 | 5.279G | 59 | 5.416G | 60  | 5.446G |
| 61 | 5.326G | 62 | 5.419G | 63 | 5.550G | 64  | 5.409G |
| 65 | 5.605G | 66 | 5.316G | 67 | 5.360G | 68  | 5.540G |
| 69 | 5.370G | 70 | 5.495G | 71 | 5.613G | 72  | 5.467G |
| 73 | 5.362G | 74 | 5.514G | 75 | 5.298G | 76  | 5.559G |
| 77 | 5.380G | 78 | 5.636G | 79 | 5.589G | 80  | 5.470G |
| 81 | 5.551G | 82 | 5.428G | 83 | 5.429G | 84  | 5.716G |
| 85 | 5.361G | 86 | 5.330G | 87 | 5.441G | 88  | 5.402G |
| 89 | 5.271G | 90 | 5.297G | 91 | 5.696G | 92  | 5.691G |
| 93 | 5.376G | 94 | 5.424G | 95 | 5.707G | 96  | 5.307G |
| 97 | 5.435G | 98 | 5.385G | 99 | 5.638G | 100 | 5.563G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11 |                |      |                |      |                |      |                |
|--------------------------------------------------|----------------|------|----------------|------|----------------|------|----------------|
| SEQ#                                             | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1                                                | 5.583G         | 2    | 5.494G         | 3    | 5.698G         | 4    | 5.598G         |
| 5                                                | 5.625G         | 6    | 5.370G         | 7    | 5.326G         | 8    | 5.606G         |
| 9                                                | 5.498G         | 10   | 5.328G         | 11   | 5.694G         | 12   | 5.709G         |
| 13                                               | 5.613G         | 14   | 5.481G         | 15   | 5.418G         | 16   | 5.677G         |
| 17                                               | 5.448G         | 18   | 5.343G         | 19   | 5.357G         | 20   | 5.554G         |
| 21                                               | 5.659G         | 22   | 5.396G         | 23   | 5.303G         | 24   | 5.419G         |
| 25                                               | 5.362G         | 26   | 5.428G         | 27   | 5.469G         | 28   | 5.268G         |
| 29                                               | 5.394G         | 30   | 5.492G         | 31   | 5.663G         | 32   | 5.720G         |
| 33                                               | 5.567G         | 34   | 5.356G         | 35   | 5.635G         | 36   | 5.372G         |
| 37                                               | 5.386G         | 38   | 5.345G         | 39   | 5.600G         | 40   | 5.412G         |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 41 | 5.258G | 42 | 5.411G | 43 | 5.301G | 44  | 5.618G |
| 45 | 5.699G | 46 | 5.604G | 47 | 5.463G | 48  | 5.542G |
| 49 | 5.680G | 50 | 5.670G | 51 | 5.368G | 52  | 5.589G |
| 53 | 5.553G | 54 | 5.515G | 55 | 5.446G | 56  | 5.304G |
| 57 | 5.441G | 58 | 5.424G | 59 | 5.620G | 60  | 5.263G |
| 61 | 5.592G | 62 | 5.629G | 63 | 5.466G | 64  | 5.556G |
| 65 | 5.636G | 66 | 5.722G | 67 | 5.302G | 68  | 5.656G |
| 69 | 5.252G | 70 | 5.286G | 71 | 5.369G | 72  | 5.723G |
| 73 | 5.573G | 74 | 5.569G | 75 | 5.558G | 76  | 5.250G |
| 77 | 5.500G | 78 | 5.457G | 79 | 5.462G | 80  | 5.562G |
| 81 | 5.716G | 82 | 5.614G | 83 | 5.347G | 84  | 5.565G |
| 85 | 5.288G | 86 | 5.627G | 87 | 5.342G | 88  | 5.696G |
| 89 | 5.712G | 90 | 5.337G | 91 | 5.649G | 92  | 5.538G |
| 93 | 5.688G | 94 | 5.549G | 95 | 5.272G | 96  | 5.447G |
| 97 | 5.519G | 98 | 5.323G | 99 | 5.314G | 100 | 5.706G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.511G            | 2    | 5.597G            | 3    | 5.289G            | 4    | 5.670G            |
| 5                                                | 5.617G            | 6    | 5.438G            | 7    | 5.491G            | 8    | 5.682G            |
| 9                                                | 5.526G            | 10   | 5.298G            | 11   | 5.352G            | 12   | 5.714G            |
| 13                                               | 5.689G            | 14   | 5.688G            | 15   | 5.360G            | 16   | 5.431G            |
| 17                                               | 5.530G            | 18   | 5.549G            | 19   | 5.478G            | 20   | 5.411G            |
| 21                                               | 5.658G            | 22   | 5.356G            | 23   | 5.265G            | 24   | 5.345G            |
| 25                                               | 5.520G            | 26   | 5.624G            | 27   | 5.562G            | 28   | 5.674G            |
| 29                                               | 5.284G            | 30   | 5.707G            | 31   | 5.464G            | 32   | 5.502G            |
| 33                                               | 5.315G            | 34   | 5.297G            | 35   | 5.639G            | 36   | 5.469G            |
| 37                                               | 5.407G            | 38   | 5.353G            | 39   | 5.542G            | 40   | 5.458G            |
| 41                                               | 5.545G            | 42   | 5.367G            | 43   | 5.569G            | 44   | 5.687G            |
| 45                                               | 5.680G            | 46   | 5.722G            | 47   | 5.312G            | 48   | 5.465G            |
| 49                                               | 5.574G            | 50   | 5.319G            | 51   | 5.648G            | 52   | 5.702G            |
| 53                                               | 5.664G            | 54   | 5.515G            | 55   | 5.613G            | 56   | 5.504G            |
| 57                                               | 5.662G            | 58   | 5.251G            | 59   | 5.322G            | 60   | 5.448G            |
| 61                                               | 5.395G            | 62   | 5.582G            | 63   | 5.350G            | 64   | 5.563G            |
| 65                                               | 5.508G            | 66   | 5.261G            | 67   | 5.577G            | 68   | 5.393G            |
| 69                                               | 5.280G            | 70   | 5.374G            | 71   | 5.380G            | 72   | 5.519G            |
| 73                                               | 5.460G            | 74   | 5.587G            | 75   | 5.720G            | 76   | 5.653G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 77 | 5.611G | 78 | 5.657G | 79 | 5.596G | 80  | 5.642G |
| 81 | 5.684G | 82 | 5.604G | 83 | 5.538G | 84  | 5.415G |
| 85 | 5.692G | 86 | 5.423G | 87 | 5.258G | 88  | 5.336G |
| 89 | 5.436G | 90 | 5.349G | 91 | 5.287G | 92  | 5.427G |
| 93 | 5.283G | 94 | 5.711G | 95 | 5.316G | 96  | 5.638G |
| 97 | 5.507G | 98 | 5.691G | 99 | 5.399G | 100 | 5.610G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.524G            | 2    | 5.546G            | 3    | 5.257G            | 4    | 5.323G            |
| 5                                                | 5.303G            | 6    | 5.498G            | 7    | 5.585G            | 8    | 5.653G            |
| 9                                                | 5.540G            | 10   | 5.413G            | 11   | 5.482G            | 12   | 5.462G            |
| 13                                               | 5.296G            | 14   | 5.656G            | 15   | 5.626G            | 16   | 5.631G            |
| 17                                               | 5.567G            | 18   | 5.711G            | 19   | 5.418G            | 20   | 5.374G            |
| 21                                               | 5.666G            | 22   | 5.623G            | 23   | 5.382G            | 24   | 5.408G            |
| 25                                               | 5.615G            | 26   | 5.394G            | 27   | 5.593G            | 28   | 5.657G            |
| 29                                               | 5.441G            | 30   | 5.395G            | 31   | 5.714G            | 32   | 5.607G            |
| 33                                               | 5.254G            | 34   | 5.612G            | 35   | 5.677G            | 36   | 5.717G            |
| 37                                               | 5.684G            | 38   | 5.660G            | 39   | 5.273G            | 40   | 5.415G            |
| 41                                               | 5.351G            | 42   | 5.484G            | 43   | 5.673G            | 44   | 5.610G            |
| 45                                               | 5.442G            | 46   | 5.478G            | 47   | 5.661G            | 48   | 5.563G            |
| 49                                               | 5.560G            | 50   | 5.617G            | 51   | 5.463G            | 52   | 5.459G            |
| 53                                               | 5.469G            | 54   | 5.417G            | 55   | 5.525G            | 56   | 5.555G            |
| 57                                               | 5.493G            | 58   | 5.371G            | 59   | 5.516G            | 60   | 5.663G            |
| 61                                               | 5.347G            | 62   | 5.288G            | 63   | 5.580G            | 64   | 5.350G            |
| 65                                               | 5.378G            | 66   | 5.700G            | 67   | 5.597G            | 68   | 5.324G            |
| 69                                               | 5.458G            | 70   | 5.471G            | 71   | 5.538G            | 72   | 5.599G            |
| 73                                               | 5.426G            | 74   | 5.310G            | 75   | 5.688G            | 76   | 5.333G            |
| 77                                               | 5.475G            | 78   | 5.258G            | 79   | 5.419G            | 80   | 5.701G            |
| 81                                               | 5.600G            | 82   | 5.590G            | 83   | 5.690G            | 84   | 5.528G            |
| 85                                               | 5.362G            | 86   | 5.342G            | 87   | 5.502G            | 88   | 5.414G            |
| 89                                               | 5.457G            | 90   | 5.297G            | 91   | 5.357G            | 92   | 5.509G            |
| 93                                               | 5.274G            | 94   | 5.451G            | 95   | 5.328G            | 96   | 5.539G            |
| 97                                               | 5.596G            | 98   | 5.479G            | 99   | 5.474G            | 100  | 5.284G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14 |           |      |           |      |           |      |           |
|--------------------------------------------------|-----------|------|-----------|------|-----------|------|-----------|
| SEQ#                                             | Frequency | SEQ# | Frequency | SEQ# | Frequency | SEQ# | Frequency |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
|    | (Hz)   |    | (Hz)   |    | (Hz)   |     | (Hz)   |
| 1  | 5.284G | 2  | 5.688G | 3  | 5.520G | 4   | 5.344G |
| 5  | 5.339G | 6  | 5.657G | 7  | 5.545G | 8   | 5.607G |
| 9  | 5.538G | 10 | 5.297G | 11 | 5.658G | 12  | 5.600G |
| 13 | 5.460G | 14 | 5.285G | 15 | 5.398G | 16  | 5.264G |
| 17 | 5.303G | 18 | 5.465G | 19 | 5.708G | 20  | 5.443G |
| 21 | 5.421G | 22 | 5.630G | 23 | 5.386G | 24  | 5.357G |
| 25 | 5.723G | 26 | 5.684G | 27 | 5.483G | 28  | 5.551G |
| 29 | 5.529G | 30 | 5.275G | 31 | 5.381G | 32  | 5.444G |
| 33 | 5.639G | 34 | 5.345G | 35 | 5.326G | 36  | 5.506G |
| 37 | 5.531G | 38 | 5.679G | 39 | 5.355G | 40  | 5.649G |
| 41 | 5.560G | 42 | 5.377G | 43 | 5.331G | 44  | 5.428G |
| 45 | 5.575G | 46 | 5.500G | 47 | 5.509G | 48  | 5.656G |
| 49 | 5.693G | 50 | 5.376G | 51 | 5.434G | 52  | 5.327G |
| 53 | 5.542G | 54 | 5.368G | 55 | 5.321G | 56  | 5.349G |
| 57 | 5.389G | 58 | 5.353G | 59 | 5.606G | 60  | 5.494G |
| 61 | 5.315G | 62 | 5.568G | 63 | 5.559G | 64  | 5.278G |
| 65 | 5.680G | 66 | 5.288G | 67 | 5.557G | 68  | 5.405G |
| 69 | 5.589G | 70 | 5.634G | 71 | 5.721G | 72  | 5.350G |
| 73 | 5.485G | 74 | 5.481G | 75 | 5.433G | 76  | 5.296G |
| 77 | 5.691G | 78 | 5.544G | 79 | 5.587G | 80  | 5.599G |
| 81 | 5.713G | 82 | 5.632G | 83 | 5.676G | 84  | 5.307G |
| 85 | 5.497G | 86 | 5.328G | 87 | 5.653G | 88  | 5.578G |
| 89 | 5.332G | 90 | 5.608G | 91 | 5.310G | 92  | 5.445G |
| 93 | 5.419G | 94 | 5.576G | 95 | 5.503G | 96  | 5.549G |
| 97 | 5.322G | 98 | 5.683G | 99 | 5.707G | 100 | 5.698G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.522G            | 2    | 5.425G            | 3    | 5.421G            | 4    | 5.722G            |
| 5                                                | 5.369G            | 6    | 5.553G            | 7    | 5.395G            | 8    | 5.265G            |
| 9                                                | 5.669G            | 10   | 5.543G            | 11   | 5.266G            | 12   | 5.490G            |
| 13                                               | 5.724G            | 14   | 5.250G            | 15   | 5.405G            | 16   | 5.579G            |
| 17                                               | 5.520G            | 18   | 5.608G            | 19   | 5.686G            | 20   | 5.404G            |
| 21                                               | 5.494G            | 22   | 5.560G            | 23   | 5.446G            | 24   | 5.367G            |
| 25                                               | 5.545G            | 26   | 5.388G            | 27   | 5.350G            | 28   | 5.402G            |
| 29                                               | 5.640G            | 30   | 5.286G            | 31   | 5.273G            | 32   | 5.680G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 33 | 5.256G | 34 | 5.292G | 35 | 5.308G | 36  | 5.481G |
| 37 | 5.304G | 38 | 5.600G | 39 | 5.397G | 40  | 5.299G |
| 41 | 5.386G | 42 | 5.586G | 43 | 5.602G | 44  | 5.444G |
| 45 | 5.684G | 46 | 5.505G | 47 | 5.723G | 48  | 5.613G |
| 49 | 5.532G | 50 | 5.319G | 51 | 5.595G | 52  | 5.370G |
| 53 | 5.318G | 54 | 5.314G | 55 | 5.487G | 56  | 5.531G |
| 57 | 5.604G | 58 | 5.272G | 59 | 5.572G | 60  | 5.598G |
| 61 | 5.384G | 62 | 5.591G | 63 | 5.619G | 64  | 5.695G |
| 65 | 5.372G | 66 | 5.452G | 67 | 5.443G | 68  | 5.269G |
| 69 | 5.462G | 70 | 5.568G | 71 | 5.346G | 72  | 5.422G |
| 73 | 5.257G | 74 | 5.523G | 75 | 5.671G | 76  | 5.307G |
| 77 | 5.361G | 78 | 5.416G | 79 | 5.433G | 80  | 5.617G |
| 81 | 5.398G | 82 | 5.351G | 83 | 5.485G | 84  | 5.650G |
| 85 | 5.347G | 86 | 5.334G | 87 | 5.442G | 88  | 5.276G |
| 89 | 5.392G | 90 | 5.360G | 91 | 5.456G | 92  | 5.468G |
| 93 | 5.309G | 94 | 5.328G | 95 | 5.497G | 96  | 5.337G |
| 97 | 5.294G | 98 | 5.261G | 99 | 5.557G | 100 | 5.665G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.587G            | 2    | 5.395G            | 3    | 5.533G            | 4    | 5.319G            |
| 5                                                | 5.473G            | 6    | 5.361G            | 7    | 5.697G            | 8    | 5.549G            |
| 9                                                | 5.680G            | 10   | 5.507G            | 11   | 5.526G            | 12   | 5.374G            |
| 13                                               | 5.377G            | 14   | 5.723G            | 15   | 5.444G            | 16   | 5.457G            |
| 17                                               | 5.347G            | 18   | 5.517G            | 19   | 5.313G            | 20   | 5.412G            |
| 21                                               | 5.720G            | 22   | 5.719G            | 23   | 5.380G            | 24   | 5.410G            |
| 25                                               | 5.692G            | 26   | 5.323G            | 27   | 5.466G            | 28   | 5.506G            |
| 29                                               | 5.386G            | 30   | 5.286G            | 31   | 5.643G            | 32   | 5.681G            |
| 33                                               | 5.370G            | 34   | 5.333G            | 35   | 5.476G            | 36   | 5.498G            |
| 37                                               | 5.655G            | 38   | 5.368G            | 39   | 5.612G            | 40   | 5.254G            |
| 41                                               | 5.602G            | 42   | 5.627G            | 43   | 5.335G            | 44   | 5.404G            |
| 45                                               | 5.718G            | 46   | 5.656G            | 47   | 5.667G            | 48   | 5.431G            |
| 49                                               | 5.686G            | 50   | 5.651G            | 51   | 5.585G            | 52   | 5.649G            |
| 53                                               | 5.265G            | 54   | 5.474G            | 55   | 5.268G            | 56   | 5.631G            |
| 57                                               | 5.376G            | 58   | 5.260G            | 59   | 5.488G            | 60   | 5.521G            |
| 61                                               | 5.672G            | 62   | 5.618G            | 63   | 5.403G            | 64   | 5.610G            |
| 65                                               | 5.315G            | 66   | 5.556G            | 67   | 5.659G            | 68   | 5.420G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 69 | 5.596G | 70 | 5.270G | 71 | 5.324G | 72  | 5.546G |
| 73 | 5.358G | 74 | 5.675G | 75 | 5.295G | 76  | 5.568G |
| 77 | 5.281G | 78 | 5.630G | 79 | 5.499G | 80  | 5.263G |
| 81 | 5.325G | 82 | 5.541G | 83 | 5.490G | 84  | 5.371G |
| 85 | 5.634G | 86 | 5.464G | 87 | 5.352G | 88  | 5.326G |
| 89 | 5.330G | 90 | 5.606G | 91 | 5.711G | 92  | 5.381G |
| 93 | 5.580G | 94 | 5.280G | 95 | 5.554G | 96  | 5.362G |
| 97 | 5.626G | 98 | 5.510G | 99 | 5.716G | 100 | 5.441G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.293G            | 2    | 5.283G            | 3    | 5.433G            | 4    | 5.556G            |
| 5                                                | 5.494G            | 6    | 5.344G            | 7    | 5.320G            | 8    | 5.656G            |
| 9                                                | 5.405G            | 10   | 5.606G            | 11   | 5.323G            | 12   | 5.358G            |
| 13                                               | 5.274G            | 14   | 5.521G            | 15   | 5.434G            | 16   | 5.546G            |
| 17                                               | 5.644G            | 18   | 5.487G            | 19   | 5.313G            | 20   | 5.676G            |
| 21                                               | 5.609G            | 22   | 5.297G            | 23   | 5.565G            | 24   | 5.377G            |
| 25                                               | 5.288G            | 26   | 5.397G            | 27   | 5.470G            | 28   | 5.299G            |
| 29                                               | 5.645G            | 30   | 5.292G            | 31   | 5.667G            | 32   | 5.473G            |
| 33                                               | 5.615G            | 34   | 5.513G            | 35   | 5.558G            | 36   | 5.447G            |
| 37                                               | 5.549G            | 38   | 5.362G            | 39   | 5.365G            | 40   | 5.465G            |
| 41                                               | 5.483G            | 42   | 5.370G            | 43   | 5.361G            | 44   | 5.702G            |
| 45                                               | 5.369G            | 46   | 5.723G            | 47   | 5.328G            | 48   | 5.278G            |
| 49                                               | 5.311G            | 50   | 5.539G            | 51   | 5.419G            | 52   | 5.554G            |
| 53                                               | 5.262G            | 54   | 5.379G            | 55   | 5.713G            | 56   | 5.493G            |
| 57                                               | 5.294G            | 58   | 5.603G            | 59   | 5.304G            | 60   | 5.340G            |
| 61                                               | 5.614G            | 62   | 5.350G            | 63   | 5.551G            | 64   | 5.626G            |
| 65                                               | 5.295G            | 66   | 5.671G            | 67   | 5.336G            | 68   | 5.694G            |
| 69                                               | 5.621G            | 70   | 5.540G            | 71   | 5.648G            | 72   | 5.391G            |
| 73                                               | 5.373G            | 74   | 5.682G            | 75   | 5.463G            | 76   | 5.672G            |
| 77                                               | 5.559G            | 78   | 5.477G            | 79   | 5.518G            | 80   | 5.607G            |
| 81                                               | 5.647G            | 82   | 5.442G            | 83   | 5.720G            | 84   | 5.590G            |
| 85                                               | 5.403G            | 86   | 5.580G            | 87   | 5.591G            | 88   | 5.637G            |
| 89                                               | 5.506G            | 90   | 5.411G            | 91   | 5.587G            | 92   | 5.543G            |
| 93                                               | 5.601G            | 94   | 5.455G            | 95   | 5.697G            | 96   | 5.668G            |
| 97                                               | 5.695G            | 98   | 5.271G            | 99   | 5.430G            | 100  | 5.514G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.715G            | 2    | 5.594G            | 3    | 5.450G            | 4    | 5.473G            |
| 5                                                | 5.287G            | 6    | 5.338G            | 7    | 5.346G            | 8    | 5.288G            |
| 9                                                | 5.542G            | 10   | 5.306G            | 11   | 5.333G            | 12   | 5.472G            |
| 13                                               | 5.490G            | 14   | 5.551G            | 15   | 5.644G            | 16   | 5.651G            |
| 17                                               | 5.618G            | 18   | 5.434G            | 19   | 5.691G            | 20   | 5.666G            |
| 21                                               | 5.648G            | 22   | 5.558G            | 23   | 5.397G            | 24   | 5.316G            |
| 25                                               | 5.602G            | 26   | 5.545G            | 27   | 5.336G            | 28   | 5.701G            |
| 29                                               | 5.401G            | 30   | 5.582G            | 31   | 5.576G            | 32   | 5.429G            |
| 33                                               | 5.367G            | 34   | 5.527G            | 35   | 5.344G            | 36   | 5.286G            |
| 37                                               | 5.304G            | 38   | 5.660G            | 39   | 5.687G            | 40   | 5.631G            |
| 41                                               | 5.622G            | 42   | 5.677G            | 43   | 5.383G            | 44   | 5.296G            |
| 45                                               | 5.619G            | 46   | 5.503G            | 47   | 5.708G            | 48   | 5.482G            |
| 49                                               | 5.624G            | 50   | 5.599G            | 51   | 5.667G            | 52   | 5.298G            |
| 53                                               | 5.414G            | 54   | 5.349G            | 55   | 5.548G            | 56   | 5.615G            |
| 57                                               | 5.568G            | 58   | 5.424G            | 59   | 5.720G            | 60   | 5.271G            |
| 61                                               | 5.369G            | 62   | 5.559G            | 63   | 5.276G            | 64   | 5.356G            |
| 65                                               | 5.256G            | 66   | 5.681G            | 67   | 5.540G            | 68   | 5.263G            |
| 69                                               | 5.275G            | 70   | 5.629G            | 71   | 5.303G            | 72   | 5.433G            |
| 73                                               | 5.481G            | 74   | 5.523G            | 75   | 5.285G            | 76   | 5.407G            |
| 77                                               | 5.378G            | 78   | 5.512G            | 79   | 5.650G            | 80   | 5.278G            |
| 81                                               | 5.446G            | 82   | 5.546G            | 83   | 5.486G            | 84   | 5.564G            |
| 85                                               | 5.613G            | 86   | 5.390G            | 87   | 5.348G            | 88   | 5.468G            |
| 89                                               | 5.565G            | 90   | 5.518G            | 91   | 5.600G            | 92   | 5.311G            |
| 93                                               | 5.506G            | 94   | 5.484G            | 95   | 5.438G            | 96   | 5.381G            |
| 97                                               | 5.553G            | 98   | 5.364G            | 99   | 5.423G            | 100  | 5.343G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.666G            | 2    | 5.487G            | 3    | 5.470G            | 4    | 5.359G            |
| 5                                                | 5.338G            | 6    | 5.472G            | 7    | 5.390G            | 8    | 5.708G            |
| 9                                                | 5.589G            | 10   | 5.366G            | 11   | 5.485G            | 12   | 5.519G            |
| 13                                               | 5.337G            | 14   | 5.659G            | 15   | 5.501G            | 16   | 5.405G            |
| 17                                               | 5.295G            | 18   | 5.369G            | 19   | 5.284G            | 20   | 5.425G            |
| 21                                               | 5.661G            | 22   | 5.447G            | 23   | 5.483G            | 24   | 5.267G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 25 | 5.285G | 26 | 5.549G | 27 | 5.306G | 28  | 5.473G |
| 29 | 5.637G | 30 | 5.578G | 31 | 5.513G | 32  | 5.605G |
| 33 | 5.623G | 34 | 5.573G | 35 | 5.536G | 36  | 5.663G |
| 37 | 5.511G | 38 | 5.479G | 39 | 5.611G | 40  | 5.510G |
| 41 | 5.403G | 42 | 5.301G | 43 | 5.711G | 44  | 5.706G |
| 45 | 5.259G | 46 | 5.554G | 47 | 5.494G | 48  | 5.254G |
| 49 | 5.250G | 50 | 5.497G | 51 | 5.291G | 52  | 5.543G |
| 53 | 5.495G | 54 | 5.376G | 55 | 5.481G | 56  | 5.325G |
| 57 | 5.506G | 58 | 5.697G | 59 | 5.340G | 60  | 5.378G |
| 61 | 5.579G | 62 | 5.558G | 63 | 5.664G | 64  | 5.364G |
| 65 | 5.290G | 66 | 5.467G | 67 | 5.446G | 68  | 5.417G |
| 69 | 5.684G | 70 | 5.700G | 71 | 5.408G | 72  | 5.545G |
| 73 | 5.316G | 74 | 5.305G | 75 | 5.616G | 76  | 5.329G |
| 77 | 5.255G | 78 | 5.601G | 79 | 5.455G | 80  | 5.486G |
| 81 | 5.478G | 82 | 5.383G | 83 | 5.450G | 84  | 5.358G |
| 85 | 5.678G | 86 | 5.407G | 87 | 5.514G | 88  | 5.718G |
| 89 | 5.331G | 90 | 5.468G | 91 | 5.698G | 92  | 5.507G |
| 93 | 5.312G | 94 | 5.719G | 95 | 5.372G | 96  | 5.570G |
| 97 | 5.271G | 98 | 5.528G | 99 | 5.582G | 100 | 5.644G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.388G            | 2    | 5.645G            | 3    | 5.618G            | 4    | 5.275G            |
| 5                                                | 5.406G            | 6    | 5.363G            | 7    | 5.279G            | 8    | 5.639G            |
| 9                                                | 5.665G            | 10   | 5.617G            | 11   | 5.579G            | 12   | 5.691G            |
| 13                                               | 5.295G            | 14   | 5.602G            | 15   | 5.372G            | 16   | 5.484G            |
| 17                                               | 5.516G            | 18   | 5.345G            | 19   | 5.649G            | 20   | 5.597G            |
| 21                                               | 5.394G            | 22   | 5.404G            | 23   | 5.487G            | 24   | 5.483G            |
| 25                                               | 5.543G            | 26   | 5.722G            | 27   | 5.574G            | 28   | 5.353G            |
| 29                                               | 5.528G            | 30   | 5.522G            | 31   | 5.401G            | 32   | 5.467G            |
| 33                                               | 5.325G            | 34   | 5.585G            | 35   | 5.277G            | 36   | 5.264G            |
| 37                                               | 5.525G            | 38   | 5.586G            | 39   | 5.430G            | 40   | 5.350G            |
| 41                                               | 5.445G            | 42   | 5.635G            | 43   | 5.675G            | 44   | 5.285G            |
| 45                                               | 5.674G            | 46   | 5.307G            | 47   | 5.328G            | 48   | 5.338G            |
| 49                                               | 5.286G            | 50   | 5.540G            | 51   | 5.657G            | 52   | 5.313G            |
| 53                                               | 5.546G            | 54   | 5.370G            | 55   | 5.358G            | 56   | 5.611G            |
| 57                                               | 5.495G            | 58   | 5.410G            | 59   | 5.268G            | 60   | 5.640G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 61 | 5.311G | 62 | 5.513G | 63 | 5.584G | 64  | 5.562G |
| 65 | 5.518G | 66 | 5.572G | 67 | 5.456G | 68  | 5.680G |
| 69 | 5.461G | 70 | 5.348G | 71 | 5.505G | 72  | 5.340G |
| 73 | 5.409G | 74 | 5.699G | 75 | 5.362G | 76  | 5.714G |
| 77 | 5.706G | 78 | 5.684G | 79 | 5.431G | 80  | 5.463G |
| 81 | 5.288G | 82 | 5.418G | 83 | 5.374G | 84  | 5.270G |
| 85 | 5.571G | 86 | 5.414G | 87 | 5.266G | 88  | 5.322G |
| 89 | 5.547G | 90 | 5.272G | 91 | 5.710G | 92  | 5.327G |
| 93 | 5.331G | 94 | 5.282G | 95 | 5.403G | 96  | 5.560G |
| 97 | 5.342G | 98 | 5.321G | 99 | 5.701G | 100 | 5.504G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.637G            | 2    | 5.337G            | 3    | 5.452G            | 4    | 5.302G            |
| 5                                                | 5.278G            | 6    | 5.606G            | 7    | 5.696G            | 8    | 5.579G            |
| 9                                                | 5.363G            | 10   | 5.285G            | 11   | 5.275G            | 12   | 5.484G            |
| 13                                               | 5.427G            | 14   | 5.468G            | 15   | 5.309G            | 16   | 5.607G            |
| 17                                               | 5.494G            | 18   | 5.684G            | 19   | 5.272G            | 20   | 5.697G            |
| 21                                               | 5.447G            | 22   | 5.367G            | 23   | 5.338G            | 24   | 5.504G            |
| 25                                               | 5.465G            | 26   | 5.381G            | 27   | 5.368G            | 28   | 5.471G            |
| 29                                               | 5.310G            | 30   | 5.455G            | 31   | 5.553G            | 32   | 5.626G            |
| 33                                               | 5.457G            | 34   | 5.420G            | 35   | 5.362G            | 36   | 5.621G            |
| 37                                               | 5.700G            | 38   | 5.599G            | 39   | 5.653G            | 40   | 5.615G            |
| 41                                               | 5.402G            | 42   | 5.379G            | 43   | 5.490G            | 44   | 5.715G            |
| 45                                               | 5.695G            | 46   | 5.595G            | 47   | 5.421G            | 48   | 5.609G            |
| 49                                               | 5.664G            | 50   | 5.642G            | 51   | 5.628G            | 52   | 5.674G            |
| 53                                               | 5.507G            | 54   | 5.617G            | 55   | 5.656G            | 56   | 5.493G            |
| 57                                               | 5.266G            | 58   | 5.714G            | 59   | 5.319G            | 60   | 5.441G            |
| 61                                               | 5.478G            | 62   | 5.444G            | 63   | 5.474G            | 64   | 5.575G            |
| 65                                               | 5.294G            | 66   | 5.282G            | 67   | 5.328G            | 68   | 5.462G            |
| 69                                               | 5.289G            | 70   | 5.724G            | 71   | 5.454G            | 72   | 5.306G            |
| 73                                               | 5.380G            | 74   | 5.332G            | 75   | 5.677G            | 76   | 5.374G            |
| 77                                               | 5.712G            | 78   | 5.387G            | 79   | 5.472G            | 80   | 5.542G            |
| 81                                               | 5.533G            | 82   | 5.426G            | 83   | 5.254G            | 84   | 5.669G            |
| 85                                               | 5.271G            | 86   | 5.577G            | 87   | 5.502G            | 88   | 5.403G            |
| 89                                               | 5.543G            | 90   | 5.571G            | 91   | 5.513G            | 92   | 5.479G            |
| 93                                               | 5.601G            | 94   | 5.482G            | 95   | 5.428G            | 96   | 5.614G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 97 | 5.336G | 98 | 5.372G | 99 | 5.600G | 100 | 5.470G |
|----|--------|----|--------|----|--------|-----|--------|

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.335G            | 2    | 5.570G            | 3    | 5.334G            | 4    | 5.433G            |
| 5                                                | 5.464G            | 6    | 5.451G            | 7    | 5.687G            | 8    | 5.586G            |
| 9                                                | 5.254G            | 10   | 5.634G            | 11   | 5.438G            | 12   | 5.722G            |
| 13                                               | 5.386G            | 14   | 5.607G            | 15   | 5.290G            | 16   | 5.262G            |
| 17                                               | 5.515G            | 18   | 5.441G            | 19   | 5.636G            | 20   | 5.270G            |
| 21                                               | 5.256G            | 22   | 5.279G            | 23   | 5.620G            | 24   | 5.447G            |
| 25                                               | 5.471G            | 26   | 5.417G            | 27   | 5.473G            | 28   | 5.708G            |
| 29                                               | 5.468G            | 30   | 5.362G            | 31   | 5.572G            | 32   | 5.563G            |
| 33                                               | 5.328G            | 34   | 5.601G            | 35   | 5.541G            | 36   | 5.629G            |
| 37                                               | 5.393G            | 38   | 5.667G            | 39   | 5.531G            | 40   | 5.313G            |
| 41                                               | 5.633G            | 42   | 5.403G            | 43   | 5.613G            | 44   | 5.553G            |
| 45                                               | 5.465G            | 46   | 5.716G            | 47   | 5.329G            | 48   | 5.356G            |
| 49                                               | 5.320G            | 50   | 5.391G            | 51   | 5.255G            | 52   | 5.276G            |
| 53                                               | 5.324G            | 54   | 5.271G            | 55   | 5.500G            | 56   | 5.646G            |
| 57                                               | 5.404G            | 58   | 5.265G            | 59   | 5.671G            | 60   | 5.616G            |
| 61                                               | 5.371G            | 62   | 5.606G            | 63   | 5.477G            | 64   | 5.467G            |
| 65                                               | 5.561G            | 66   | 5.359G            | 67   | 5.603G            | 68   | 5.407G            |
| 69                                               | 5.426G            | 70   | 5.715G            | 71   | 5.663G            | 72   | 5.680G            |
| 73                                               | 5.463G            | 74   | 5.274G            | 75   | 5.567G            | 76   | 5.721G            |
| 77                                               | 5.678G            | 78   | 5.657G            | 79   | 5.443G            | 80   | 5.338G            |
| 81                                               | 5.293G            | 82   | 5.325G            | 83   | 5.724G            | 84   | 5.402G            |
| 85                                               | 5.581G            | 86   | 5.478G            | 87   | 5.507G            | 88   | 5.669G            |
| 89                                               | 5.409G            | 90   | 5.495G            | 91   | 5.627G            | 92   | 5.519G            |
| 93                                               | 5.508G            | 94   | 5.322G            | 95   | 5.373G            | 96   | 5.382G            |
| 97                                               | 5.530G            | 98   | 5.589G            | 99   | 5.587G            | 100  | 5.580G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.295G            | 2    | 5.251G            | 3    | 5.536G            | 4    | 5.257G            |
| 5                                                | 5.694G            | 6    | 5.615G            | 7    | 5.373G            | 8    | 5.529G            |
| 9                                                | 5.255G            | 10   | 5.542G            | 11   | 5.604G            | 12   | 5.280G            |
| 13                                               | 5.288G            | 14   | 5.479G            | 15   | 5.706G            | 16   | 5.600G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 17 | 5.420G | 18 | 5.640G | 19 | 5.256G | 20  | 5.260G |
| 21 | 5.605G | 22 | 5.349G | 23 | 5.466G | 24  | 5.576G |
| 25 | 5.310G | 26 | 5.696G | 27 | 5.658G | 28  | 5.284G |
| 29 | 5.286G | 30 | 5.651G | 31 | 5.324G | 32  | 5.570G |
| 33 | 5.627G | 34 | 5.610G | 35 | 5.541G | 36  | 5.505G |
| 37 | 5.527G | 38 | 5.481G | 39 | 5.270G | 40  | 5.301G |
| 41 | 5.667G | 42 | 5.516G | 43 | 5.409G | 44  | 5.299G |
| 45 | 5.348G | 46 | 5.482G | 47 | 5.617G | 48  | 5.586G |
| 49 | 5.442G | 50 | 5.297G | 51 | 5.470G | 52  | 5.296G |
| 53 | 5.417G | 54 | 5.282G | 55 | 5.671G | 56  | 5.676G |
| 57 | 5.506G | 58 | 5.421G | 59 | 5.438G | 60  | 5.345G |
| 61 | 5.402G | 62 | 5.350G | 63 | 5.483G | 64  | 5.577G |
| 65 | 5.573G | 66 | 5.537G | 67 | 5.635G | 68  | 5.426G |
| 69 | 5.278G | 70 | 5.303G | 71 | 5.276G | 72  | 5.591G |
| 73 | 5.686G | 74 | 5.568G | 75 | 5.559G | 76  | 5.712G |
| 77 | 5.621G | 78 | 5.414G | 79 | 5.669G | 80  | 5.398G |
| 81 | 5.630G | 82 | 5.521G | 83 | 5.662G | 84  | 5.619G |
| 85 | 5.262G | 86 | 5.578G | 87 | 5.335G | 88  | 5.401G |
| 89 | 5.645G | 90 | 5.312G | 91 | 5.546G | 92  | 5.292G |
| 93 | 5.654G | 94 | 5.663G | 95 | 5.557G | 96  | 5.628G |
| 97 | 5.504G | 98 | 5.305G | 99 | 5.632G | 100 | 5.624G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.471G            | 2    | 5.508G            | 3    | 5.494G            | 4    | 5.442G            |
| 5                                                | 5.648G            | 6    | 5.621G            | 7    | 5.433G            | 8    | 5.405G            |
| 9                                                | 5.339G            | 10   | 5.302G            | 11   | 5.546G            | 12   | 5.502G            |
| 13                                               | 5.268G            | 14   | 5.607G            | 15   | 5.673G            | 16   | 5.406G            |
| 17                                               | 5.669G            | 18   | 5.307G            | 19   | 5.453G            | 20   | 5.670G            |
| 21                                               | 5.274G            | 22   | 5.570G            | 23   | 5.636G            | 24   | 5.484G            |
| 25                                               | 5.599G            | 26   | 5.458G            | 27   | 5.294G            | 28   | 5.595G            |
| 29                                               | 5.308G            | 30   | 5.606G            | 31   | 5.556G            | 32   | 5.402G            |
| 33                                               | 5.392G            | 34   | 5.626G            | 35   | 5.603G            | 36   | 5.416G            |
| 37                                               | 5.645G            | 38   | 5.709G            | 39   | 5.665G            | 40   | 5.407G            |
| 41                                               | 5.290G            | 42   | 5.298G            | 43   | 5.628G            | 44   | 5.314G            |
| 45                                               | 5.363G            | 46   | 5.366G            | 47   | 5.557G            | 48   | 5.321G            |
| 49                                               | 5.722G            | 50   | 5.525G            | 51   | 5.351G            | 52   | 5.390G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 53 | 5.309G | 54 | 5.614G | 55 | 5.464G | 56  | 5.281G |
| 57 | 5.639G | 58 | 5.293G | 59 | 5.424G | 60  | 5.413G |
| 61 | 5.332G | 62 | 5.478G | 63 | 5.305G | 64  | 5.398G |
| 65 | 5.619G | 66 | 5.507G | 67 | 5.642G | 68  | 5.299G |
| 69 | 5.488G | 70 | 5.480G | 71 | 5.396G | 72  | 5.682G |
| 73 | 5.450G | 74 | 5.592G | 75 | 5.403G | 76  | 5.374G |
| 77 | 5.538G | 78 | 5.287G | 79 | 5.282G | 80  | 5.537G |
| 81 | 5.710G | 82 | 5.641G | 83 | 5.615G | 84  | 5.358G |
| 85 | 5.613G | 86 | 5.438G | 87 | 5.346G | 88  | 5.386G |
| 89 | 5.680G | 90 | 5.255G | 91 | 5.486G | 92  | 5.379G |
| 93 | 5.304G | 94 | 5.320G | 95 | 5.446G | 96  | 5.720G |
| 97 | 5.503G | 98 | 5.690G | 99 | 5.269G | 100 | 5.306G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.545G            | 2    | 5.281G            | 3    | 5.677G            | 4    | 5.635G            |
| 5                                                | 5.287G            | 6    | 5.663G            | 7    | 5.632G            | 8    | 5.290G            |
| 9                                                | 5.395G            | 10   | 5.614G            | 11   | 5.260G            | 12   | 5.396G            |
| 13                                               | 5.646G            | 14   | 5.538G            | 15   | 5.390G            | 16   | 5.611G            |
| 17                                               | 5.402G            | 18   | 5.647G            | 19   | 5.561G            | 20   | 5.397G            |
| 21                                               | 5.373G            | 22   | 5.444G            | 23   | 5.315G            | 24   | 5.300G            |
| 25                                               | 5.501G            | 26   | 5.407G            | 27   | 5.670G            | 28   | 5.514G            |
| 29                                               | 5.448G            | 30   | 5.343G            | 31   | 5.294G            | 32   | 5.382G            |
| 33                                               | 5.580G            | 34   | 5.606G            | 35   | 5.261G            | 36   | 5.329G            |
| 37                                               | 5.334G            | 38   | 5.527G            | 39   | 5.480G            | 40   | 5.666G            |
| 41                                               | 5.276G            | 42   | 5.422G            | 43   | 5.301G            | 44   | 5.639G            |
| 45                                               | 5.661G            | 46   | 5.684G            | 47   | 5.616G            | 48   | 5.369G            |
| 49                                               | 5.385G            | 50   | 5.317G            | 51   | 5.590G            | 52   | 5.253G            |
| 53                                               | 5.689G            | 54   | 5.375G            | 55   | 5.714G            | 56   | 5.693G            |
| 57                                               | 5.496G            | 58   | 5.596G            | 59   | 5.583G            | 60   | 5.529G            |
| 61                                               | 5.340G            | 62   | 5.477G            | 63   | 5.723G            | 64   | 5.656G            |
| 65                                               | 5.252G            | 66   | 5.662G            | 67   | 5.629G            | 68   | 5.622G            |
| 69                                               | 5.335G            | 70   | 5.592G            | 71   | 5.360G            | 72   | 5.333G            |
| 73                                               | 5.391G            | 74   | 5.603G            | 75   | 5.374G            | 76   | 5.665G            |
| 77                                               | 5.420G            | 78   | 5.681G            | 79   | 5.674G            | 80   | 5.368G            |
| 81                                               | 5.324G            | 82   | 5.312G            | 83   | 5.468G            | 84   | 5.319G            |
| 85                                               | 5.559G            | 86   | 5.518G            | 87   | 5.367G            | 88   | 5.275G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 89 | 5.709G | 90 | 5.262G | 91 | 5.692G | 92  | 5.582G |
| 93 | 5.584G | 94 | 5.473G | 95 | 5.282G | 96  | 5.331G |
| 97 | 5.298G | 98 | 5.565G | 99 | 5.470G | 100 | 5.626G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.475G            | 2    | 5.337G            | 3    | 5.544G            | 4    | 5.723G            |
| 5                                                | 5.509G            | 6    | 5.506G            | 7    | 5.328G            | 8    | 5.327G            |
| 9                                                | 5.260G            | 10   | 5.716G            | 11   | 5.542G            | 12   | 5.256G            |
| 13                                               | 5.441G            | 14   | 5.349G            | 15   | 5.634G            | 16   | 5.680G            |
| 17                                               | 5.545G            | 18   | 5.661G            | 19   | 5.469G            | 20   | 5.704G            |
| 21                                               | 5.478G            | 22   | 5.446G            | 23   | 5.393G            | 24   | 5.521G            |
| 25                                               | 5.400G            | 26   | 5.306G            | 27   | 5.295G            | 28   | 5.280G            |
| 29                                               | 5.367G            | 30   | 5.557G            | 31   | 5.681G            | 32   | 5.471G            |
| 33                                               | 5.573G            | 34   | 5.637G            | 35   | 5.554G            | 36   | 5.444G            |
| 37                                               | 5.292G            | 38   | 5.552G            | 39   | 5.413G            | 40   | 5.588G            |
| 41                                               | 5.252G            | 42   | 5.447G            | 43   | 5.496G            | 44   | 5.582G            |
| 45                                               | 5.502G            | 46   | 5.373G            | 47   | 5.311G            | 48   | 5.415G            |
| 49                                               | 5.354G            | 50   | 5.412G            | 51   | 5.418G            | 52   | 5.685G            |
| 53                                               | 5.267G            | 54   | 5.483G            | 55   | 5.334G            | 56   | 5.626G            |
| 57                                               | 5.368G            | 58   | 5.600G            | 59   | 5.307G            | 60   | 5.498G            |
| 61                                               | 5.428G            | 62   | 5.341G            | 63   | 5.693G            | 64   | 5.569G            |
| 65                                               | 5.495G            | 66   | 5.647G            | 67   | 5.266G            | 68   | 5.481G            |
| 69                                               | 5.624G            | 70   | 5.477G            | 71   | 5.399G            | 72   | 5.422G            |
| 73                                               | 5.452G            | 74   | 5.689G            | 75   | 5.282G            | 76   | 5.296G            |
| 77                                               | 5.344G            | 78   | 5.333G            | 79   | 5.301G            | 80   | 5.595G            |
| 81                                               | 5.503G            | 82   | 5.501G            | 83   | 5.277G            | 84   | 5.358G            |
| 85                                               | 5.253G            | 86   | 5.419G            | 87   | 5.593G            | 88   | 5.456G            |
| 89                                               | 5.673G            | 90   | 5.629G            | 91   | 5.656G            | 92   | 5.671G            |
| 93                                               | 5.375G            | 94   | 5.650G            | 95   | 5.459G            | 96   | 5.678G            |
| 97                                               | 5.635G            | 98   | 5.615G            | 99   | 5.434G            | 100  | 5.575G            |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.289G            | 2    | 5.560G            | 3    | 5.603G            | 4    | 5.697G            |
| 5                                                | 5.449G            | 6    | 5.529G            | 7    | 5.462G            | 8    | 5.262G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 9  | 5.570G | 10 | 5.701G | 11 | 5.340G | 12  | 5.274G |
| 13 | 5.651G | 14 | 5.673G | 15 | 5.536G | 16  | 5.712G |
| 17 | 5.411G | 18 | 5.566G | 19 | 5.686G | 20  | 5.376G |
| 21 | 5.717G | 22 | 5.531G | 23 | 5.692G | 24  | 5.295G |
| 25 | 5.611G | 26 | 5.719G | 27 | 5.661G | 28  | 5.667G |
| 29 | 5.311G | 30 | 5.470G | 31 | 5.287G | 32  | 5.561G |
| 33 | 5.316G | 34 | 5.517G | 35 | 5.286G | 36  | 5.604G |
| 37 | 5.556G | 38 | 5.398G | 39 | 5.446G | 40  | 5.350G |
| 41 | 5.282G | 42 | 5.380G | 43 | 5.549G | 44  | 5.480G |
| 45 | 5.522G | 46 | 5.408G | 47 | 5.623G | 48  | 5.416G |
| 49 | 5.263G | 50 | 5.352G | 51 | 5.621G | 52  | 5.674G |
| 53 | 5.714G | 54 | 5.644G | 55 | 5.665G | 56  | 5.412G |
| 57 | 5.305G | 58 | 5.315G | 59 | 5.710G | 60  | 5.251G |
| 61 | 5.471G | 62 | 5.302G | 63 | 5.357G | 64  | 5.575G |
| 65 | 5.432G | 66 | 5.630G | 67 | 5.456G | 68  | 5.720G |
| 69 | 5.707G | 70 | 5.513G | 71 | 5.303G | 72  | 5.330G |
| 73 | 5.482G | 74 | 5.296G | 75 | 5.595G | 76  | 5.457G |
| 77 | 5.297G | 78 | 5.371G | 79 | 5.632G | 80  | 5.643G |
| 81 | 5.540G | 82 | 5.687G | 83 | 5.310G | 84  | 5.684G |
| 85 | 5.721G | 86 | 5.658G | 87 | 5.465G | 88  | 5.341G |
| 89 | 5.553G | 90 | 5.506G | 91 | 5.563G | 92  | 5.463G |
| 93 | 5.691G | 94 | 5.417G | 95 | 5.481G | 96  | 5.472G |
| 97 | 5.581G | 98 | 5.500G | 99 | 5.304G | 100 | 5.568G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.388G            | 2    | 5.252G            | 3    | 5.315G            | 4    | 5.290G            |
| 5                                                | 5.590G            | 6    | 5.638G            | 7    | 5.636G            | 8    | 5.550G            |
| 9                                                | 5.335G            | 10   | 5.642G            | 11   | 5.254G            | 12   | 5.566G            |
| 13                                               | 5.549G            | 14   | 5.640G            | 15   | 5.279G            | 16   | 5.499G            |
| 17                                               | 5.649G            | 18   | 5.267G            | 19   | 5.491G            | 20   | 5.587G            |
| 21                                               | 5.712G            | 22   | 5.309G            | 23   | 5.393G            | 24   | 5.260G            |
| 25                                               | 5.416G            | 26   | 5.271G            | 27   | 5.293G            | 28   | 5.366G            |
| 29                                               | 5.596G            | 30   | 5.446G            | 31   | 5.594G            | 32   | 5.624G            |
| 33                                               | 5.438G            | 34   | 5.343G            | 35   | 5.319G            | 36   | 5.313G            |
| 37                                               | 5.310G            | 38   | 5.341G            | 39   | 5.650G            | 40   | 5.263G            |
| 41                                               | 5.560G            | 42   | 5.403G            | 43   | 5.580G            | 44   | 5.508G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 45 | 5.265G | 46 | 5.272G | 47 | 5.684G | 48  | 5.479G |
| 49 | 5.456G | 50 | 5.701G | 51 | 5.277G | 52  | 5.620G |
| 53 | 5.588G | 54 | 5.289G | 55 | 5.258G | 56  | 5.611G |
| 57 | 5.327G | 58 | 5.300G | 59 | 5.405G | 60  | 5.564G |
| 61 | 5.628G | 62 | 5.409G | 63 | 5.670G | 64  | 5.255G |
| 65 | 5.529G | 66 | 5.497G | 67 | 5.326G | 68  | 5.496G |
| 69 | 5.711G | 70 | 5.717G | 71 | 5.357G | 72  | 5.724G |
| 73 | 5.526G | 74 | 5.618G | 75 | 5.274G | 76  | 5.441G |
| 77 | 5.678G | 78 | 5.544G | 79 | 5.614G | 80  | 5.418G |
| 81 | 5.386G | 82 | 5.721G | 83 | 5.668G | 84  | 5.379G |
| 85 | 5.463G | 86 | 5.396G | 87 | 5.664G | 88  | 5.353G |
| 89 | 5.703G | 90 | 5.298G | 91 | 5.644G | 92  | 5.307G |
| 93 | 5.509G | 94 | 5.553G | 95 | 5.681G | 96  | 5.589G |
| 97 | 5.513G | 98 | 5.547G | 99 | 5.527G | 100 | 5.295G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.351G            | 2    | 5.612G            | 3    | 5.484G            | 4    | 5.268G            |
| 5                                                | 5.493G            | 6    | 5.636G            | 7    | 5.631G            | 8    | 5.693G            |
| 9                                                | 5.284G            | 10   | 5.413G            | 11   | 5.451G            | 12   | 5.706G            |
| 13                                               | 5.580G            | 14   | 5.382G            | 15   | 5.683G            | 16   | 5.344G            |
| 17                                               | 5.712G            | 18   | 5.288G            | 19   | 5.355G            | 20   | 5.361G            |
| 21                                               | 5.460G            | 22   | 5.305G            | 23   | 5.584G            | 24   | 5.594G            |
| 25                                               | 5.336G            | 26   | 5.358G            | 27   | 5.633G            | 28   | 5.335G            |
| 29                                               | 5.696G            | 30   | 5.386G            | 31   | 5.267G            | 32   | 5.517G            |
| 33                                               | 5.289G            | 34   | 5.489G            | 35   | 5.313G            | 36   | 5.568G            |
| 37                                               | 5.271G            | 38   | 5.514G            | 39   | 5.605G            | 40   | 5.511G            |
| 41                                               | 5.473G            | 42   | 5.270G            | 43   | 5.446G            | 44   | 5.626G            |
| 45                                               | 5.596G            | 46   | 5.378G            | 47   | 5.718G            | 48   | 5.582G            |
| 49                                               | 5.505G            | 50   | 5.297G            | 51   | 5.573G            | 52   | 5.672G            |
| 53                                               | 5.603G            | 54   | 5.639G            | 55   | 5.640G            | 56   | 5.346G            |
| 57                                               | 5.688G            | 58   | 5.678G            | 59   | 5.258G            | 60   | 5.657G            |
| 61                                               | 5.668G            | 62   | 5.512G            | 63   | 5.450G            | 64   | 5.254G            |
| 65                                               | 5.327G            | 66   | 5.308G            | 67   | 5.320G            | 68   | 5.434G            |
| 69                                               | 5.454G            | 70   | 5.495G            | 71   | 5.326G            | 72   | 5.457G            |
| 73                                               | 5.458G            | 74   | 5.577G            | 75   | 5.667G            | 76   | 5.622G            |
| 77                                               | 5.647G            | 78   | 5.274G            | 79   | 5.364G            | 80   | 5.628G            |

|    |        |    |        |    |        |     |        |
|----|--------|----|--------|----|--------|-----|--------|
| 81 | 5.585G | 82 | 5.620G | 83 | 5.250G | 84  | 5.609G |
| 85 | 5.474G | 86 | 5.420G | 87 | 5.390G | 88  | 5.638G |
| 89 | 5.311G | 90 | 5.463G | 91 | 5.713G | 92  | 5.412G |
| 93 | 5.499G | 94 | 5.306G | 95 | 5.348G | 96  | 5.279G |
| 97 | 5.572G | 98 | 5.559G | 99 | 5.275G | 100 | 5.680G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30 |                   |      |                   |      |                   |      |                   |
|--------------------------------------------------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| SEQ#                                             | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) | SEQ# | Frequency<br>(Hz) |
| 1                                                | 5.673G            | 2    | 5.315G            | 3    | 5.496G            | 4    | 5.668G            |
| 5                                                | 5.371G            | 6    | 5.565G            | 7    | 5.279G            | 8    | 5.577G            |
| 9                                                | 5.487G            | 10   | 5.664G            | 11   | 5.641G            | 12   | 5.649G            |
| 13                                               | 5.386G            | 14   | 5.545G            | 15   | 5.687G            | 16   | 5.393G            |
| 17                                               | 5.455G            | 18   | 5.467G            | 19   | 5.480G            | 20   | 5.642G            |
| 21                                               | 5.362G            | 22   | 5.602G            | 23   | 5.704G            | 24   | 5.499G            |
| 25                                               | 5.260G            | 26   | 5.591G            | 27   | 5.357G            | 28   | 5.605G            |
| 29                                               | 5.459G            | 30   | 5.403G            | 31   | 5.328G            | 32   | 5.586G            |
| 33                                               | 5.651G            | 34   | 5.520G            | 35   | 5.684G            | 36   | 5.384G            |
| 37                                               | 5.677G            | 38   | 5.601G            | 39   | 5.259G            | 40   | 5.251G            |
| 41                                               | 5.502G            | 42   | 5.432G            | 43   | 5.346G            | 44   | 5.648G            |
| 45                                               | 5.353G            | 46   | 5.612G            | 47   | 5.283G            | 48   | 5.718G            |
| 49                                               | 5.321G            | 50   | 5.349G            | 51   | 5.369G            | 52   | 5.627G            |
| 53                                               | 5.524G            | 54   | 5.708G            | 55   | 5.381G            | 56   | 5.274G            |
| 57                                               | 5.544G            | 58   | 5.409G            | 59   | 5.611G            | 60   | 5.380G            |
| 61                                               | 5.580G            | 62   | 5.498G            | 63   | 5.468G            | 64   | 5.257G            |
| 65                                               | 5.584G            | 66   | 5.266G            | 67   | 5.509G            | 68   | 5.629G            |
| 69                                               | 5.305G            | 70   | 5.324G            | 71   | 5.395G            | 72   | 5.676G            |
| 73                                               | 5.533G            | 74   | 5.688G            | 75   | 5.449G            | 76   | 5.388G            |
| 77                                               | 5.703G            | 78   | 5.603G            | 79   | 5.262G            | 80   | 5.686G            |
| 81                                               | 5.394G            | 82   | 5.661G            | 83   | 5.450G            | 84   | 5.342G            |
| 85                                               | 5.355G            | 86   | 5.483G            | 87   | 5.540G            | 88   | 5.538G            |
| 89                                               | 5.401G            | 90   | 5.276G            | 91   | 5.526G            | 92   | 5.400G            |
| 93                                               | 5.457G            | 94   | 5.654G            | 95   | 5.559G            | 96   | 5.377G            |
| 97                                               | 5.513G            | 98   | 5.678G            | 99   | 5.549G            | 100  | 5.301G            |