# DFS TEST REPORT

| | |
|---|---|
| **REPORT NO.:** | RF130715C28-3 |
| **MODEL NO.:** | WAP-7410 |
| **FCC ID:** | 2AATB-000001 |
| **RECEIVED:** | Jul. 15, 2013 |
| **TESTED:** | Oct. 11, 2013 |
| **ISSUED:** | Oct. 14, 2013 |

| | |
|---|---|
| **APPLICANT:** | TATUNG TECHNOLOGY INC |
| **ADDRESS:** | 22, CHUNGSHAN N.RD., 3RD SEC, TAIPEI, TAIWAN, 10435 |

| | |
|---|---|
| **ISSUED BY:** | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch |
| **LAB ADDRESS:** | No. 47, 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 Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C. |

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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# RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| RF130715C28-3 | Original release | Oct. 14, 2013 |

# 1. CERTIFICATION

**PRODUCT:** Video Bridge
**MODEL:** WAP-7410
**BRAND:** TATUNG TECHNOLOGY INC
**APPLICANT:** TATUNG TECHNOLOGY INC
**TESTED:** Oct. 11, 2013
**TEST SAMPLE:** Production Unit
**STANDARDS:** **FCC Part 15, Subpart E (Section 15.407)**
FCC 06-96

The above equipment (model: WAP-7410) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY** : _____ , **DATE :** Oct. 14, 2013
Pettie Chen / Senior Specialist

**APPROVED BY** : _____ , **DATE :** Oct. 14, 2013
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 | ✓ | ✓ |

The EUT doesn't operate in 5600 ~ 5650MHz via software controls.

## 2.2 EUT SOFTWARE AND FIRMWARE VERSION

**TABLE 2: THE EUT SOFTWARE/FIRMWARE VERSION**

| NO. | PRODUCT | MODEL NO. | SOFTWARE/FIRMWARE VERSION |
|---|---|---|---|
| 1 | Video Bridge | WAP-7410 | V1.0.0.3_TestAutoCh |

## 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

**TABLE 3: ANTENNA LIST**

| ANT NO. | ANTENNA TYPE | OPERATION FREQUENCY RANGE (MHz) | MAX. GAIN (dBi) |
|---|---|---|---|
| 1. | PCB | 5250-5350 | 2.99 |
| 1. | PCB | 5470-5725 | 3.88 |

## 2.4 EUT MAXIMUM CONDUCTED POWER

**TABLE 4: THE MEASURED CONDUCTED OUTPUT POWER**

### Master Mode

**802.11n (40MHz)**

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER | |
|---|---|---|---|
| | | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1 | 5250~5350 | 21.45 | 139.637 |
| 1 | 5470~5725 | 20.92 | 123.595 |

### Client Mode

**802.11n (40MHz)**

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER | |
|---|---|---|---|
| | | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1 | 5250~5350 | 21.45 | 139.637 |
| 1 | 5470~5725 | 20.92 | 123.595 |

## 2.5 EUT MAXIMUM E.I.R.P. POWER

**TABLE 5: THE E.I.R.P OUTPUT POWER LIST**

### Master Mode

**802.11n (40MHz)**

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER | |
|---|---|---|---|
| | | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1 | 5250~5350 | 24.44 | 277.971 |
| 1 | 5470~5725 | 24.80 | 301.995 |

### Client Mode

**802.11n (40MHz)**

| ANT NO. | FREQUENCY BAND (MHz) | MAX. POWER | |
|---|---|---|---|
| | | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |
| 1 | 5250~5350 | 24.44 | 277.971 |
| 1 | 5470~5725 | 24.80 | 301.995 |

# 3. U-NII DFS RULE REQUIREMENTS

## 3.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

**TABLE 6: APPLICABILITY OF DFS REQUIREMENTS PRIOR TO USE A CHANNEL**

| REQUIREMENT | OPERATIONAL MODE | | |
|---|---|---|---|
| | MASTER | CLIENT WITHOUT RADAR DETECTION | CLIENT WITH RADAR DETECTION |
| Non-Occupancy Period | ✓ | Not required | ✓ |
| DFS Detection Threshold | ✓ | Not required | ✓ |
| Channel Availability Check Time | ✓ | Not required | Not required |
| Uniform Spreading | ✓ | Not required | Not required |
| U-NII Detection Bandwidth | ✓ | Not required | ✓ |

**TABLE 7: APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION**

| REQUIREMENT | OPERATIONAL MODE | | |
|---|---|---|---|
| | MASTER | CLIENT WITHOUT RADAR DETECTION | CLIENT WITH RADAR DETECTION |
| DFS Detection Threshold | ✓ | Not required | ✓ |
| Channel Closing Transmission Time | ✓ | ✓ | ✓ |
| Channel Move Time | ✓ | ✓ | ✓ |
| U-NII Detection Bandwidth | ✓ | Not required | ✓ |

## 3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

**DETECTION THRESHOLD VALUES**

**TABLE 8: DFS DETECTION THRESHOLDS FOR MASTER DEVICES AND CLIENT DEVICES WITH RADAR DETECTION**

| MAXIMUM TRANSMIT POWER | VALUE (SEE Note 1 and 2) |
|---|---|
| ≥ 200 milliwatt | -64 dBm |
| < 200 milliwatt | -62 dBm |

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.

**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**TABLE 9: DFS RESPONSE REQUIREMENT VALUES**

| PARAMETER | VALUE |
|---|---|
| Non-occupancy period | Minimum 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds<br>See Note 1. |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth | Minimum 80% of the UNII 99% transmission power bandwidth.<br>See Note 3. |

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

• For the Short Pulse Radar Test Signals this instant is the end of the Burst.

• For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.

• For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

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

**Note 3:** During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

## PARAMETERS OF DFS TEST SIGNALS

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

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

| RADAR TYPE | PULSE WIDTH (µsec) | PRI (µsec) | NUMBER OF PULSES | MINIMUM PERCENTAGE OF SUCCESSFUL DETECTION | MINIMUM NUMBER OF TRIALS |
|---|---|---|---|---|---|
| 1 | 1 | 1428 | 18 | 60% | 30 |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |

**TABLE 11: LONG PULSE RADAR TEST WAVEFORM**

| RADAR TYPE | PULSE WIDTH (µsec) | CHIRP WIDTH (MHz) | PRI (µsec) | NUMBER OF PULSES PER BURST | NUMBER OF BURSTS | MINIMUM PERCENTAGE OF SUCCESSFUL DETECTION | MINIMUM NUMBER OF TRIALS |
|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

**TABLE 12: FREQUENCY HOPPING RADAR TEST WAVEFORM**

| RADAR TYPE | PULSE WIDTH (µsec) | PRI (µsec) | PULSES PER HOP | HOPPING RATE (kHz) | HOPPING SEQUENCE LENGTH (msec) | MINIMUM PERCENTAGE OF SUCCESSFUL DETECTION | MINIMUM NUMBER OF TRIALS |
|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

# 4. TEST & SUPPORT EQUIPMENT LIST

## 4.1 TEST INSTRUMENTS

**TABLE 1: TEST INSTRUMENTS LIST**

| DESCRIPTION & MANUFACTURER | MODEL NO. | BRAND | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| R&S Spectrum analyzer | FSP40 | R&S | 2013/01/28 | 2014/01/27 |
| Signal generator | 8645A | Agilent | 2013/06/25 | 2014/06/24 |
| Oscilloscope | TDS 5104 | Tektronix | 2013/03/08 | 2014/03/07 |

## 4.2 DESCRIPTION OF SUPPORT UNITS

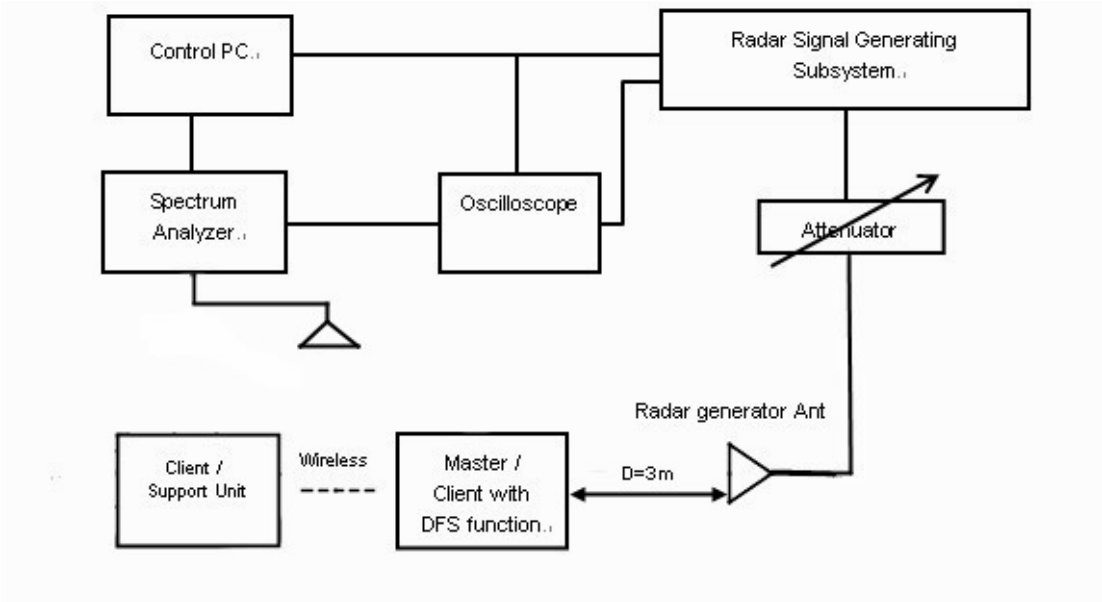
This EUT was functioned as a Master & Slave device during the DFS test.

# 5. TEST PROCEDURE

## 5.1 ADT DFS MEASUREMENT SYSTEM

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

**RADIATED SETUP CONFIGURATION OF ADT DFS MEASUREMENT SYSTEM**

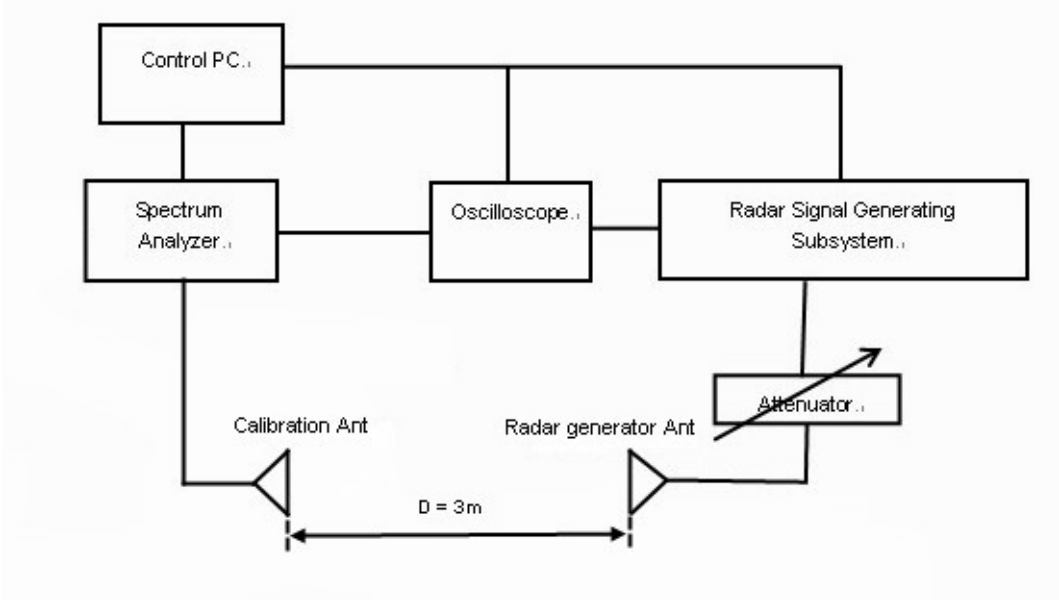



The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 $\frac{1}{2}$ Magic Hours) from Master device, the designated MPEG test file and instructions are located at: http://ntiacsd.ntia.doc.gov/dfs/.

## 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

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

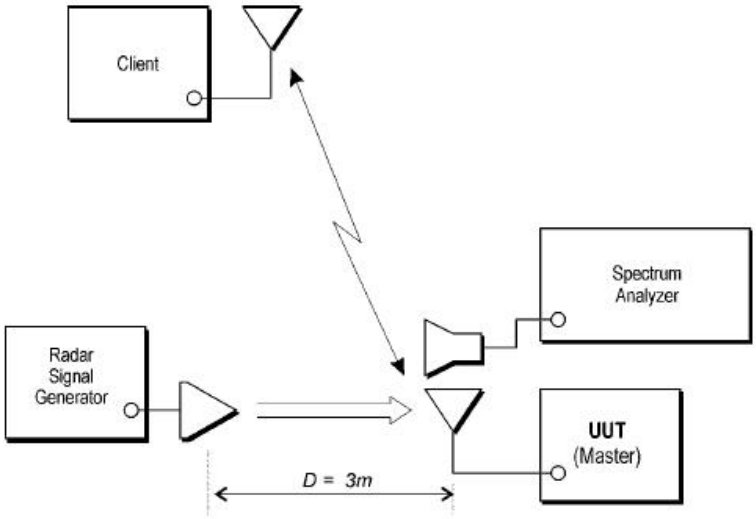



## 5.3 DEVIATION FROM TEST STANDARD

No deviation.

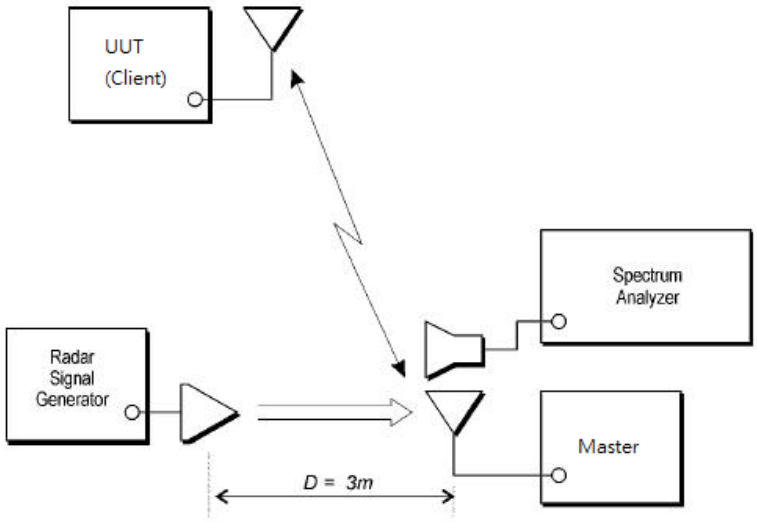
## 5.4 RADIATED TEST SETUP CONFIGURATION

### 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.

### 5.4.2 CLIENT MODE




The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.

# 6. TEST RESULTS

## 6.1 SUMMARY OF TEST RESULTS

### 6.1.1 MASTER MODE

| 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 |

### 6.1.2 SLAVE WITHOUT RADAR DETECTION MODE MASTER MODE

| CLAUSE | TEST PARAMETER | REMARKS | PASS/FAIL |
|---|---|---|---|
| 15.407 | DFS Detection Threshold | Not Applicable | NA |
| 15.407 | Channel Availability Check Time | Not Applicable | NA |
| 15.407 | Channel Move Time | Applicable | Pass |
| 15.407 | Channel Closing Transmission Time | Applicable | Pass |
| 15.407 | Non- Occupancy Period | Applicable | Pass |
| 15.407 | Uniform Spreading | Not Applicable | NA |
| 15.407 | U-NII Detection Bandwidth | Not Applicable | NA |
| 15.407 | Non-associated test | Applicable | Pass |
| 15.407 | Non-Co-Channel test | Applicable | Pass |

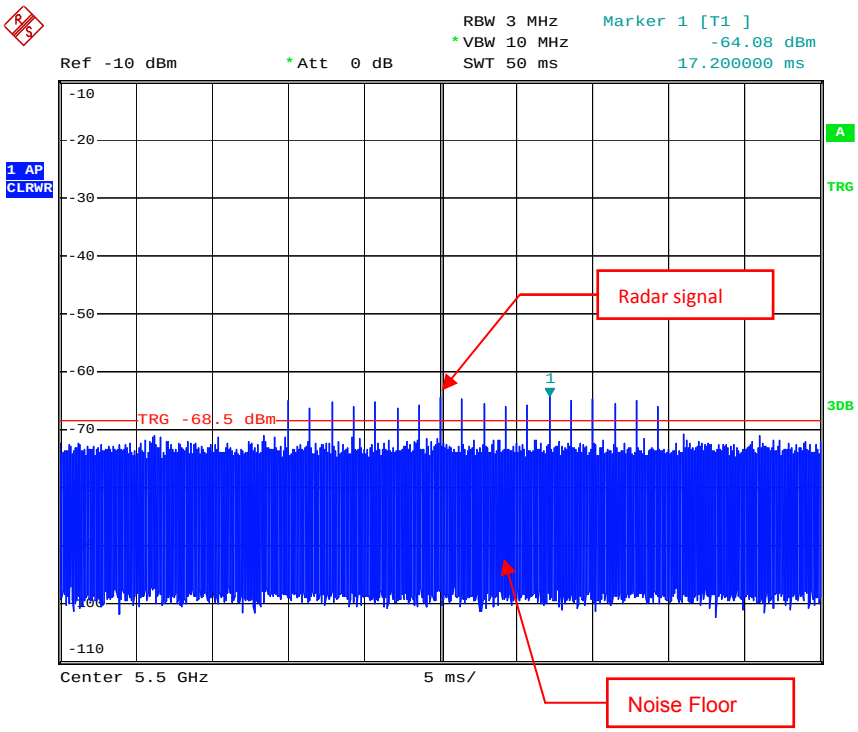
## 6.2 TEST RESULTS

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

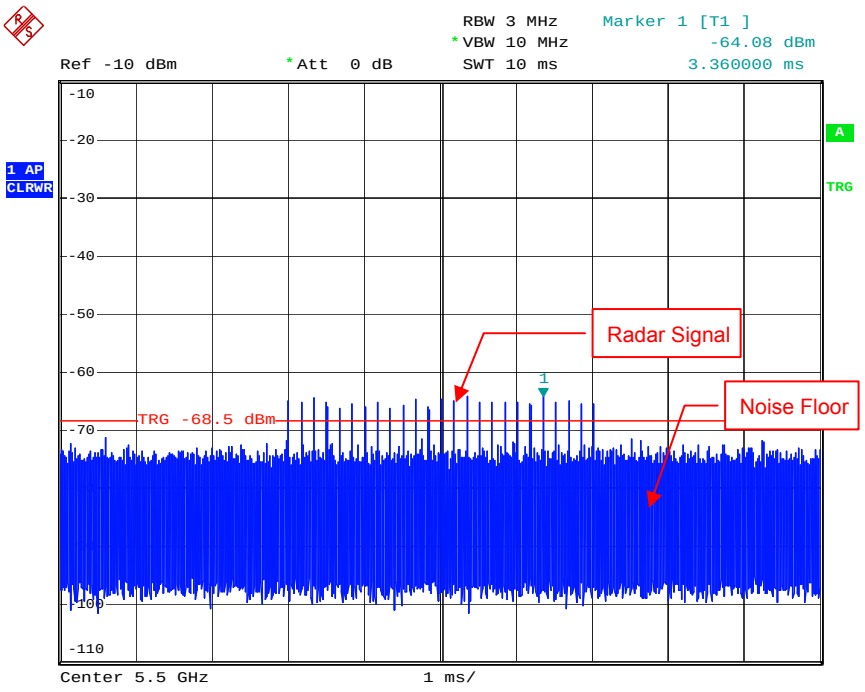
Master with injection at the Master. (Radar Test Waveforms are injected into the Master.

**DFS DETECTION THRESHOLD**

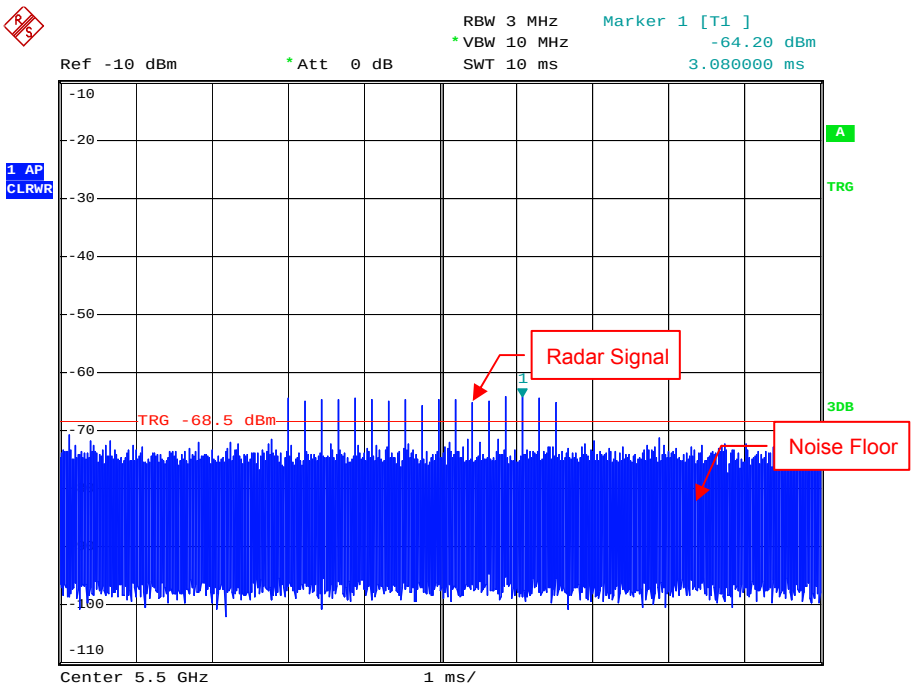
For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64 dBm. The tested level is lower than required level hence it provides margin to the limit.



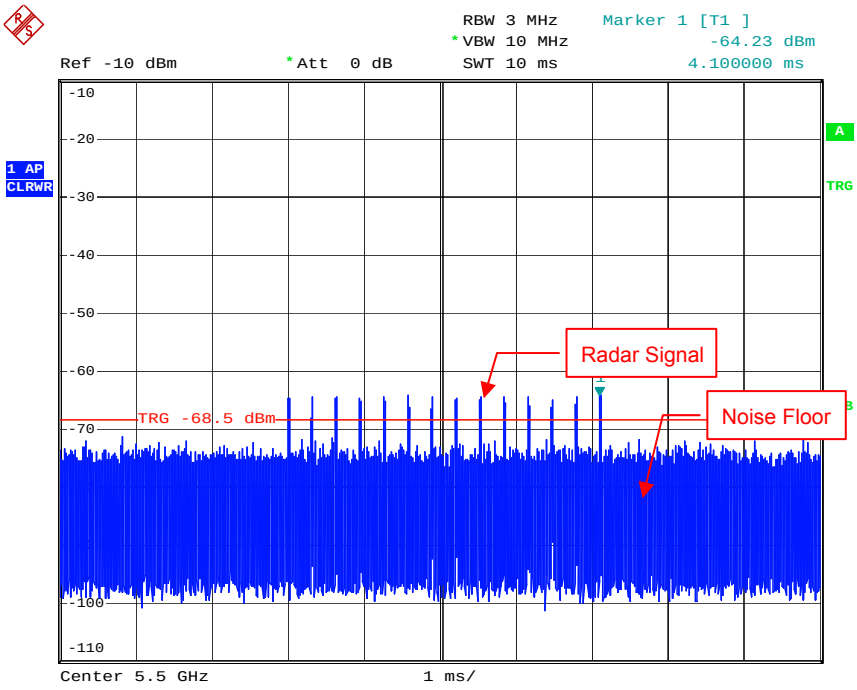

Radar Signal 1



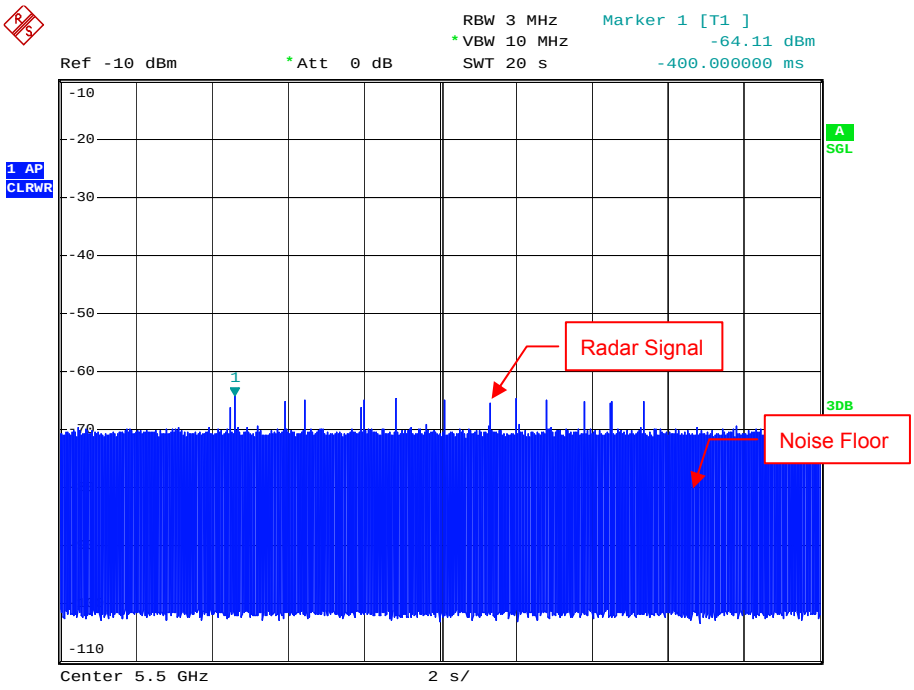

Radar Signal 2



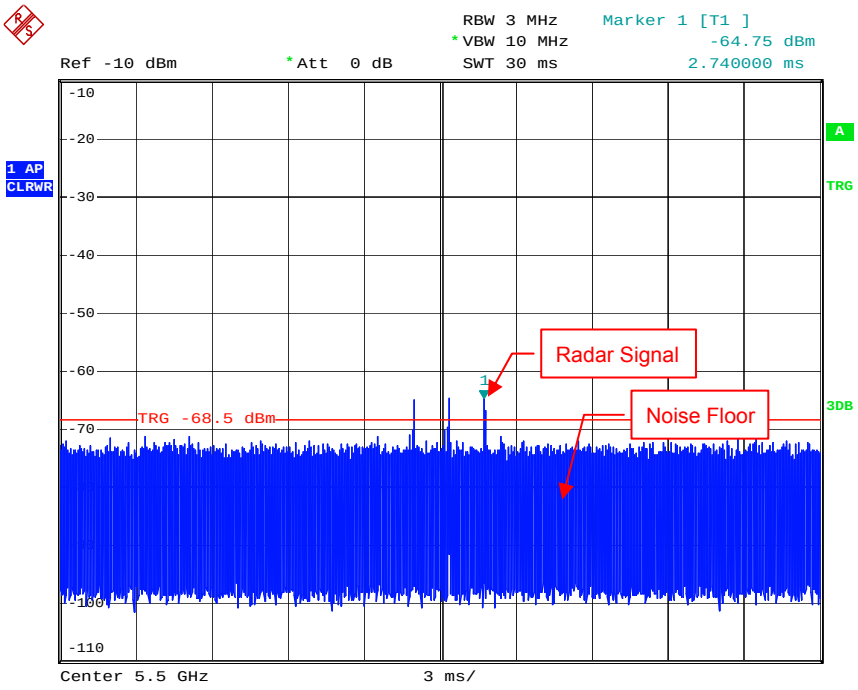

Radar Signal 3



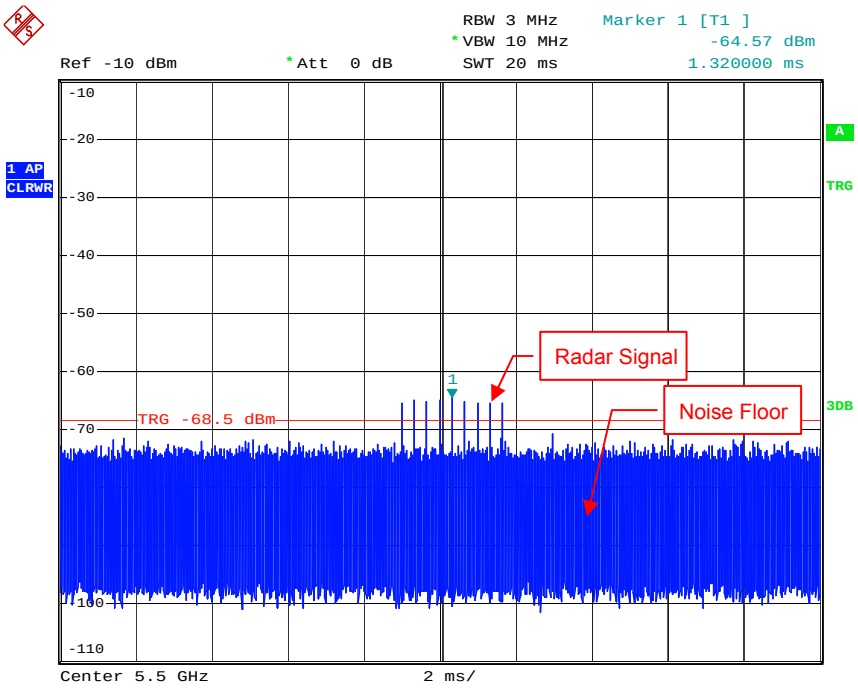

Radar Signal 4




Radar Signal 5



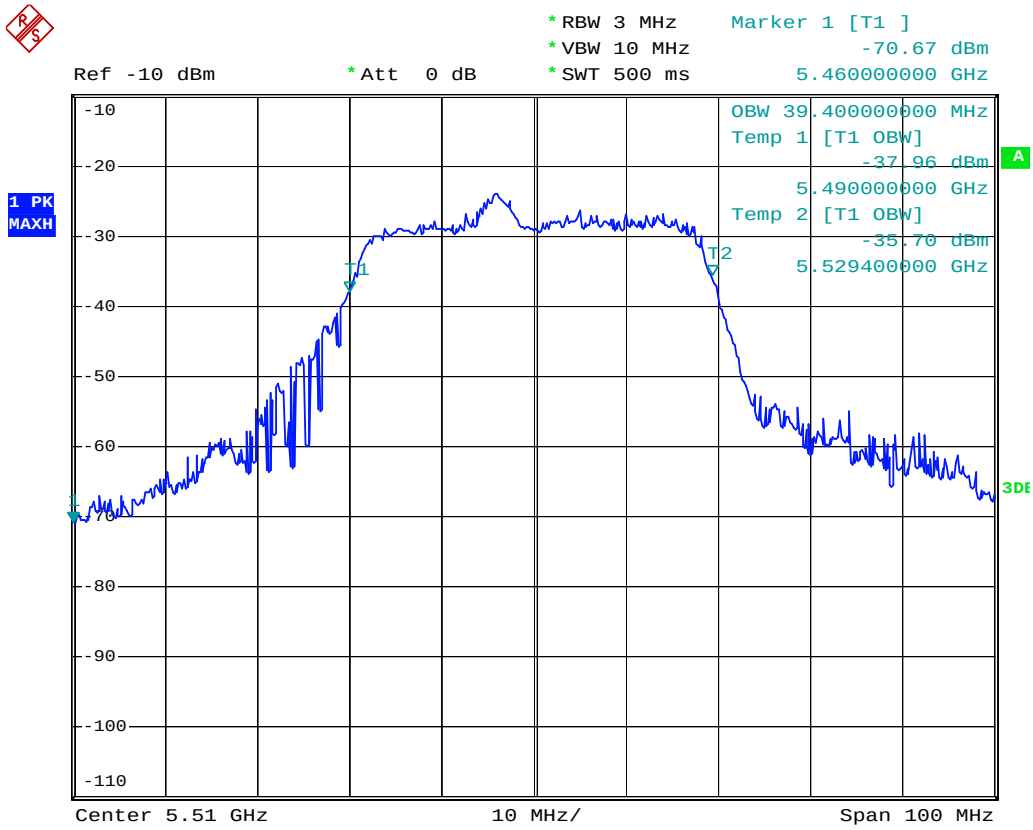

Single Burst of Radar Signal 5




Radar Signal 6

## 6.2.2 U-NII DETECTION BANDWIDTH

### IEEE 802.11n 40MHz




U-NII 99% Channel bandwidth

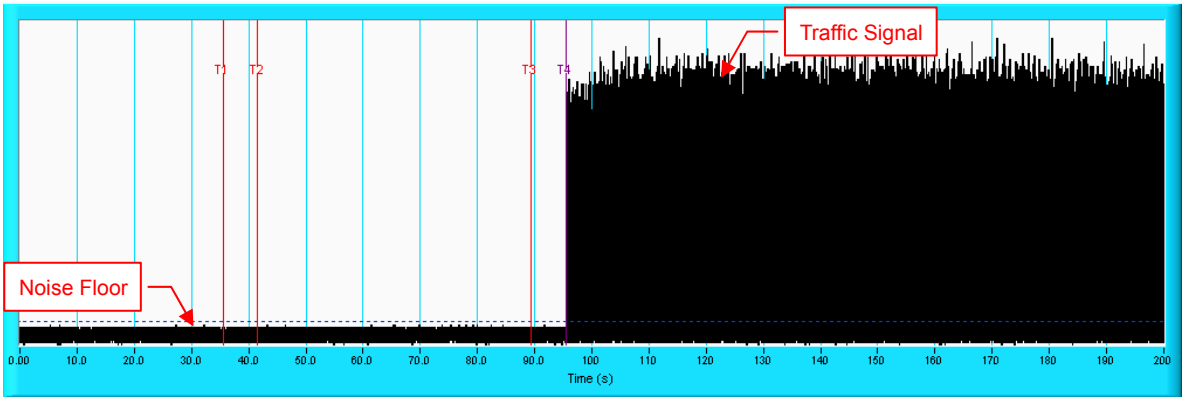
| Detection Bandwidth Test - IEEE 802.11N 40MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EUT Frequency: 5510MHz<br>EUT 99% Power bandwidth: 39.4MHz<br>Detection bandwidth limit (80% of EUT 99% Power bandwidth): 31.52MHz<br>Detection bandwidth (5528(FH) – 5492(FL)) : 36MHz<br>Test Result : PASS | | | | | | | | | | | |
| Radar Frequency (MHz) | Trial Number / Detection | | | | | | | | | | Detection Rate (%) |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5491 | N | N | N | N | N | N | N | N | N | N | 0 |
| 5492(FL) | 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(FH) | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100 |
| 5529 | N | N | Y | N | Y | N | Y | N | Y | Y | 50 |
| 5530 | 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.

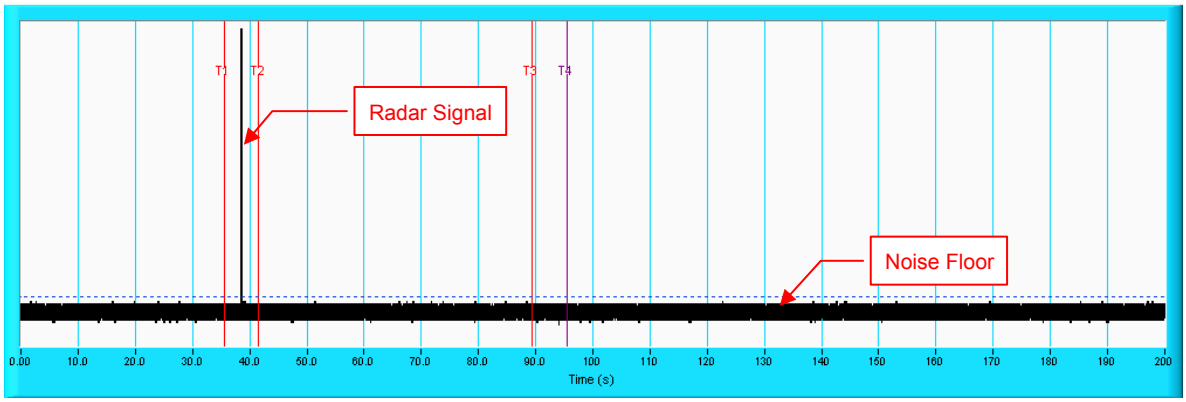
| Timing of Radar Signal | Observation | |
|---|---|---|
| | EUT | Spectrum Analyzer |
| Within 1 to 6 second | Detected | No transmissions |
| Within 54 to 60 second | Detected | No transmissions |

**Initial Channel Availability Check Time**



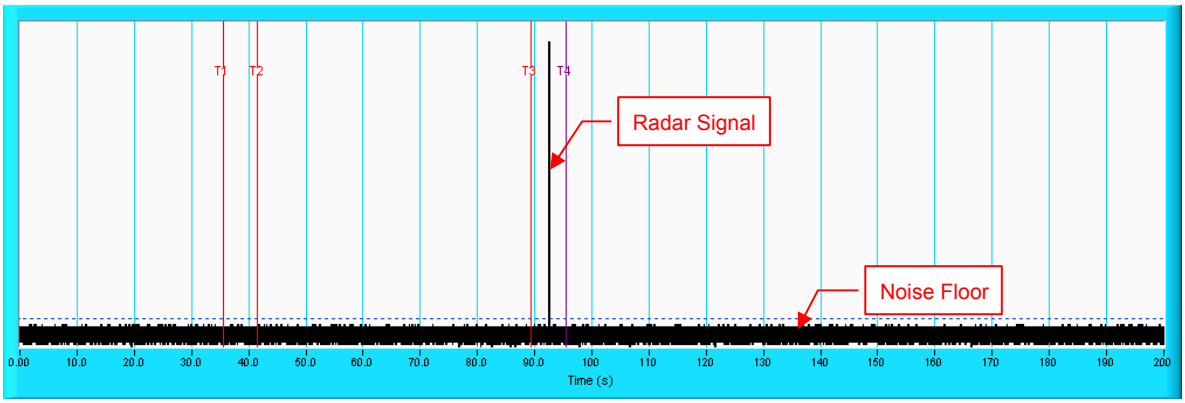

**NOTE:** T1 denotes the end of power-up time period is 35.5$^{th}$ second. T4 denotes the end of Channel Availability Check time is 95.5$^{th}$ second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.

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




**NOTE:** T1 denotes the end of power up time period is 35.5$^{th}$ second. T2 denotes 41.5$^{th}$ second, the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T4 denotes the 95.5$^{th}$ second.

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

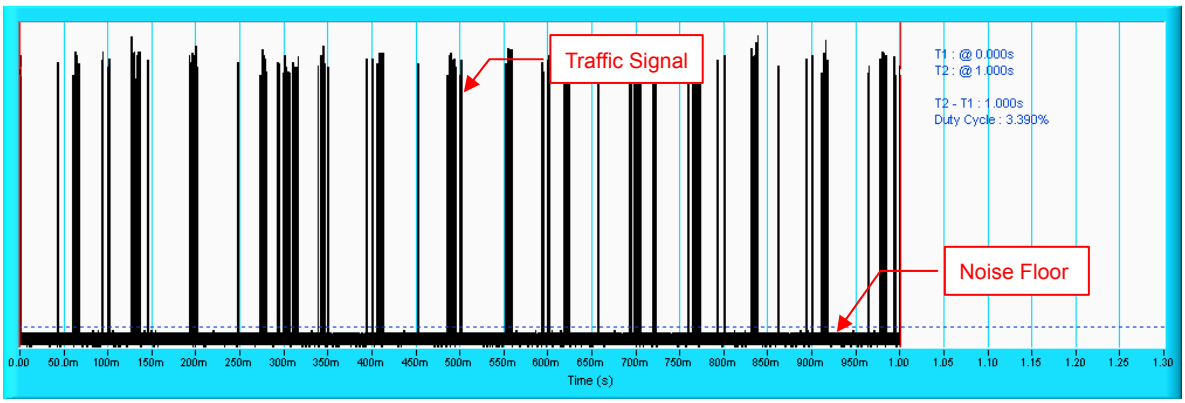



**NOTE:** T1 denotes the end of power up time period is 35.5$^{th}$ second. T3 denotes 89.5$^{th}$ second and radar burst was commenced within 54$^{th}$ second to 60$^{th}$ second window starting from the end of power-up sequence. T4 denotes the 95.5$^{th}$ second.

### 6.2.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

**Wireless Traffic Loading**

**IEEE 802.11n 40MHz**



## IEEE 802.11n 40MHz

**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 | 1428 | 18 | 30 | 100 |
| 2 | 1-5 | 150-230 | 23-29 | 30 | 100 |
| 3 | 6-10 | 200-500 | 16-18 | 30 | 96.7 |
| 4 | 11-20 | 200-500 | 12-16 | 30 | 100 |
| Aggregate (Radar Types 1-4) | | | | 120 | 99.175 |

**Table 2: Long Pulse Radar Test Waveform**

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

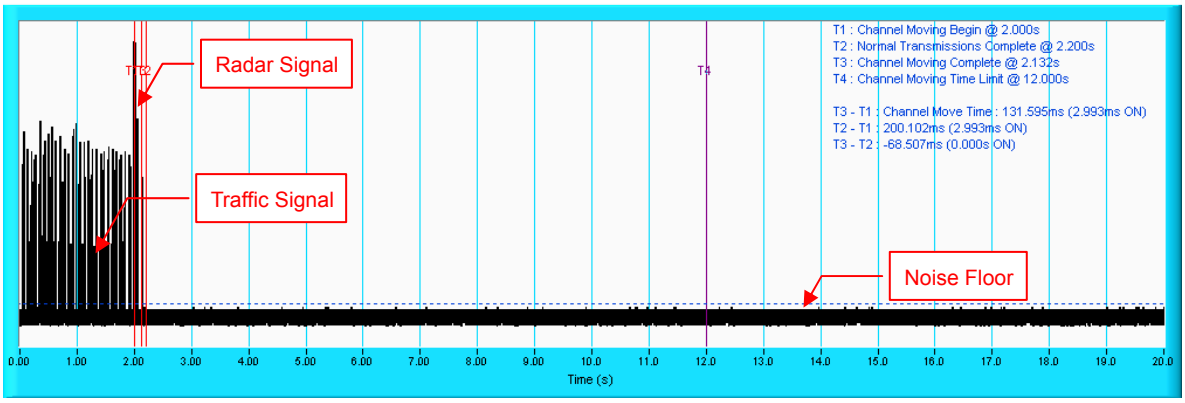
**Table 3: Frequency Hopping Radar Test Waveform**

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Number of Trials(Times) | Percentage of Successful Detection (%) |
|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 30 | 96.7 |

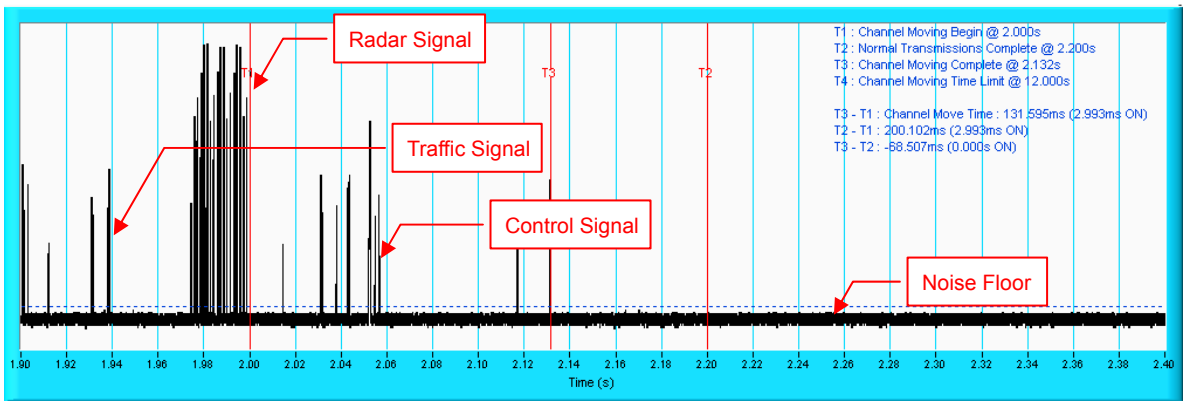
The Detailed Radar pattern and Statistical Performance showed in Annex A.

## Radar signal 1

IEEE 802.11n 40MHz



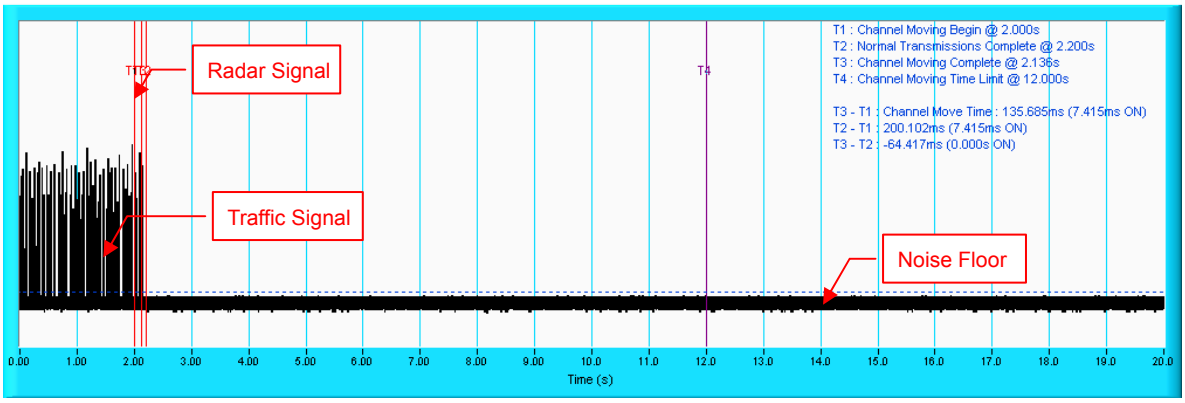

**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



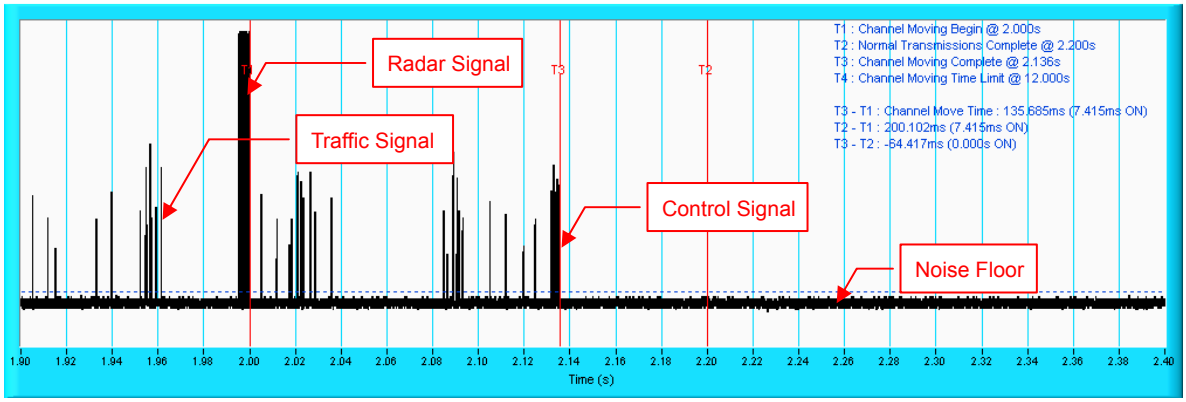

**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 2

IEEE 802.11n 40MHz



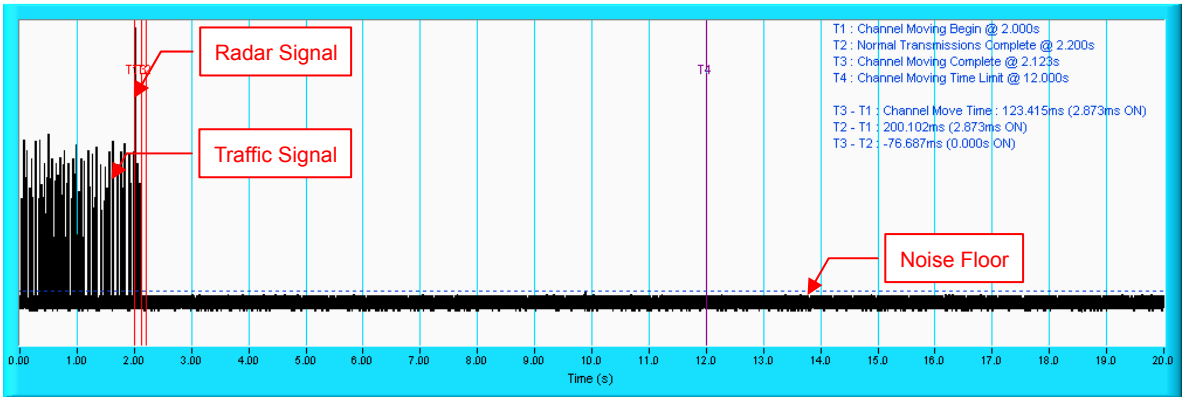

**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



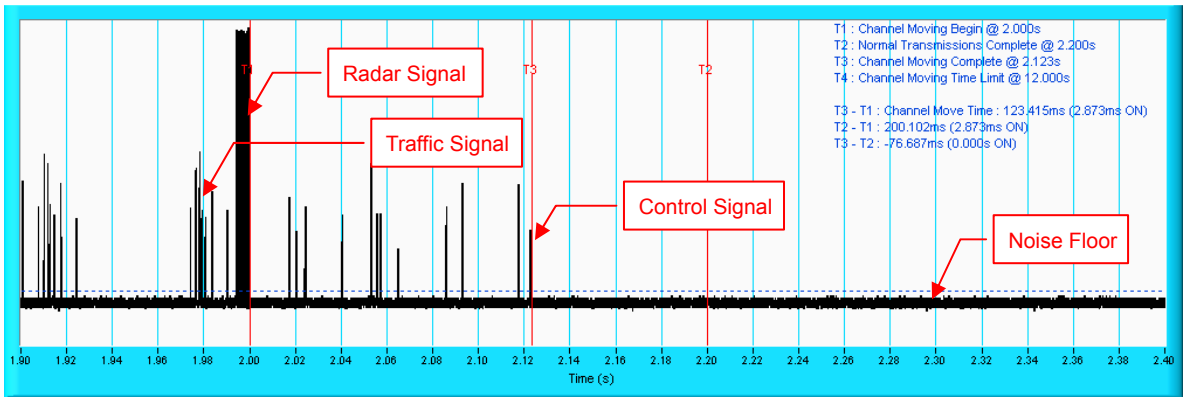

**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 3

IEEE 802.11N 40MHz



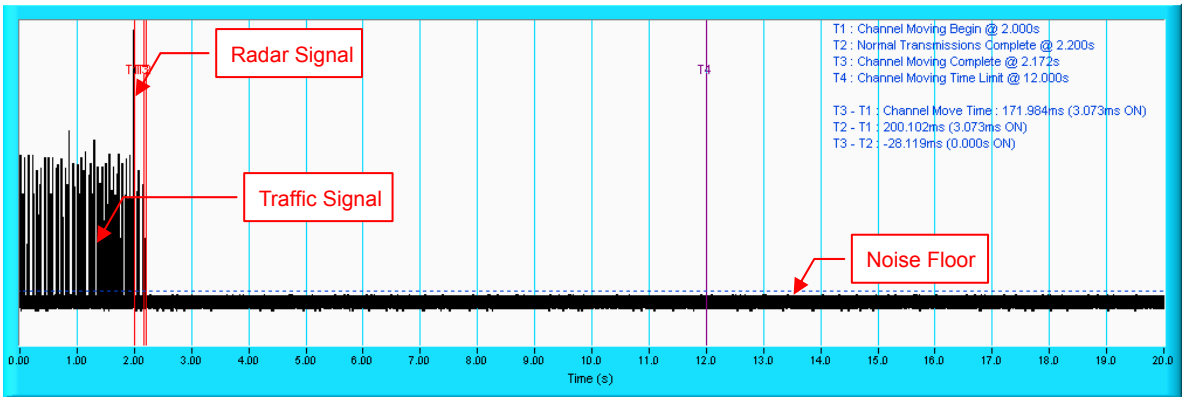

**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



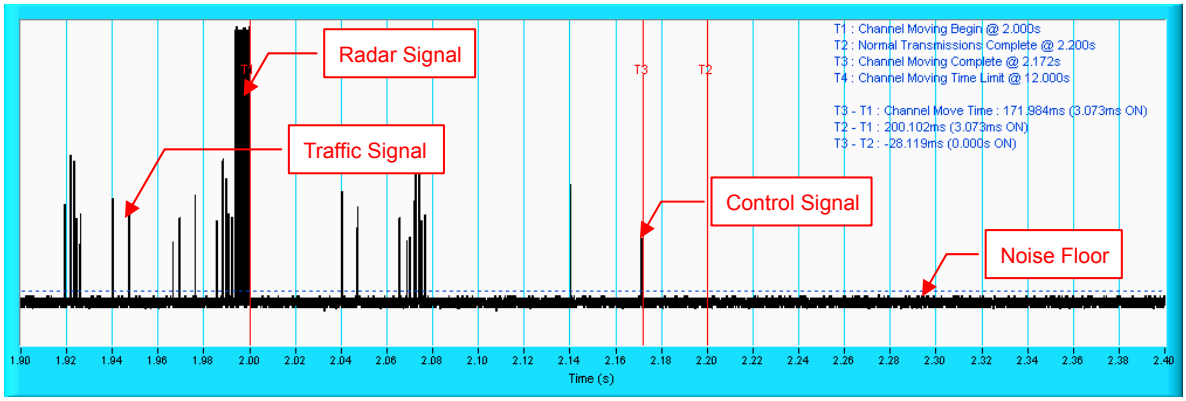

**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 4

IEEE 802.11n 40MHz



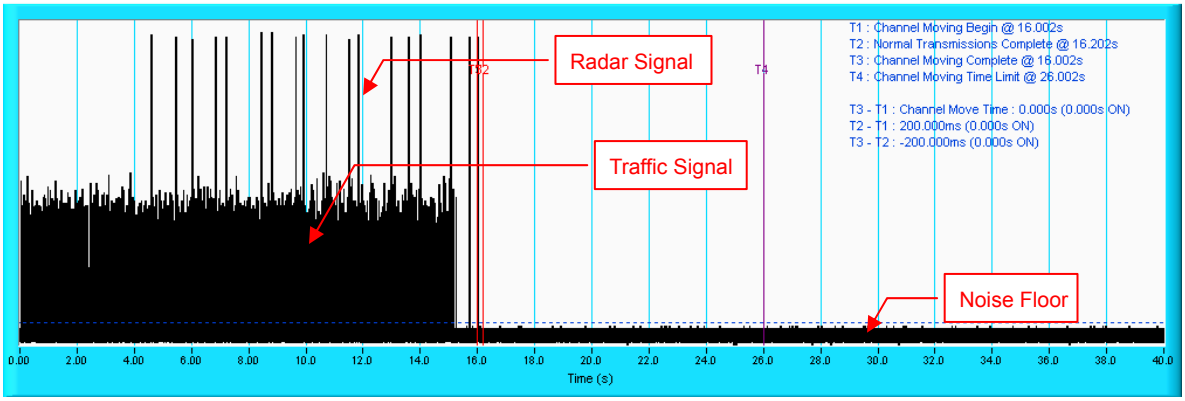

**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



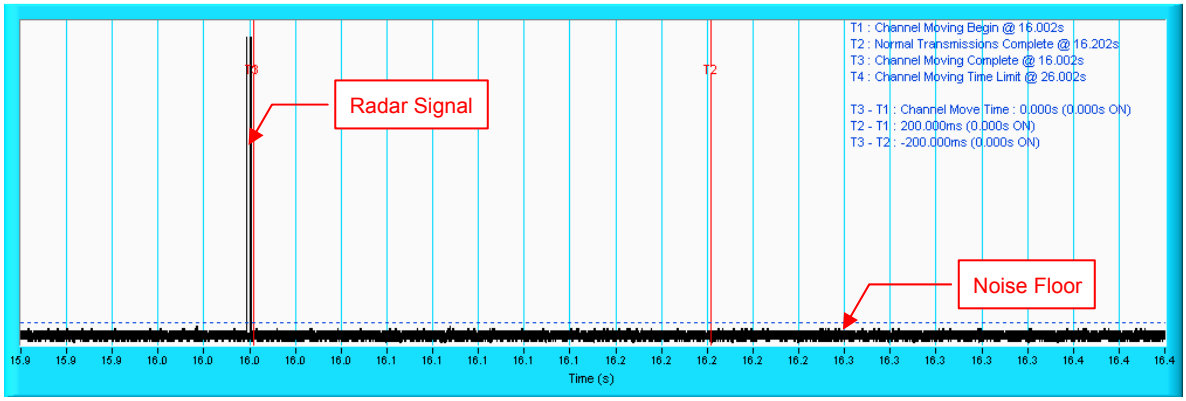

**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 5

IEEE 802.11n 40MHz



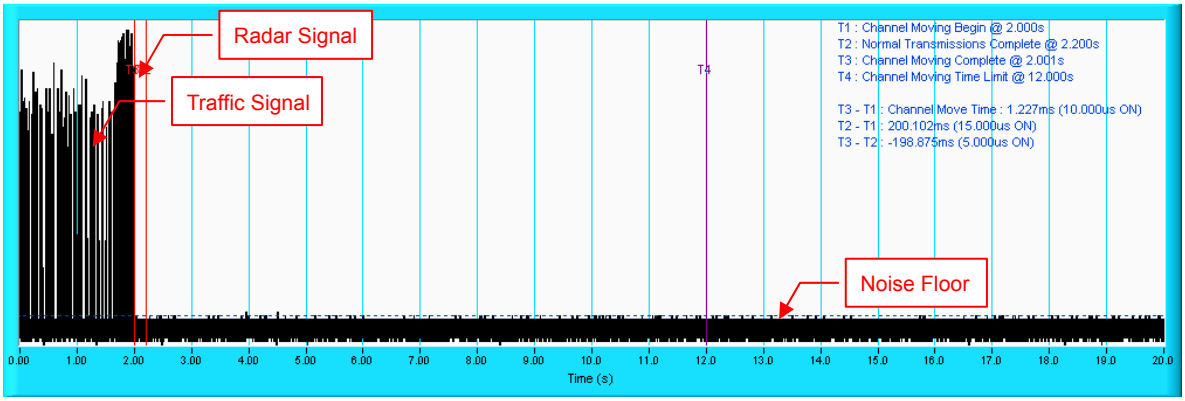

**NOTE:** T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.



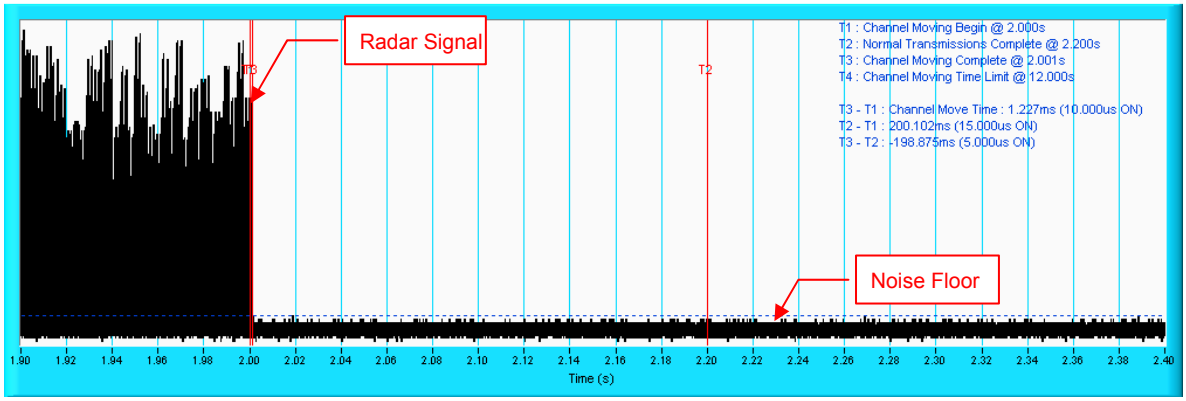

**NOTE:** Room-in of the first 500ms after radar signal applied.

## Radar signal 6

IEEE 802.11n 40MHz




**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.




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

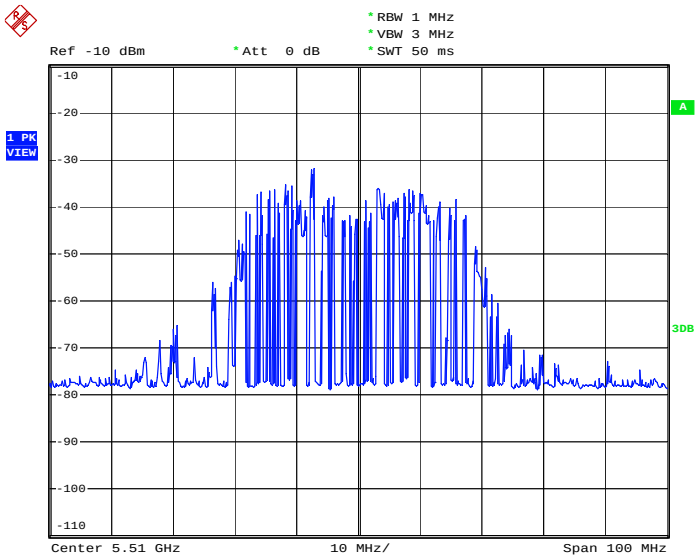
### 6.2.5 NON- OCCUPANCY PERIOD

**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.

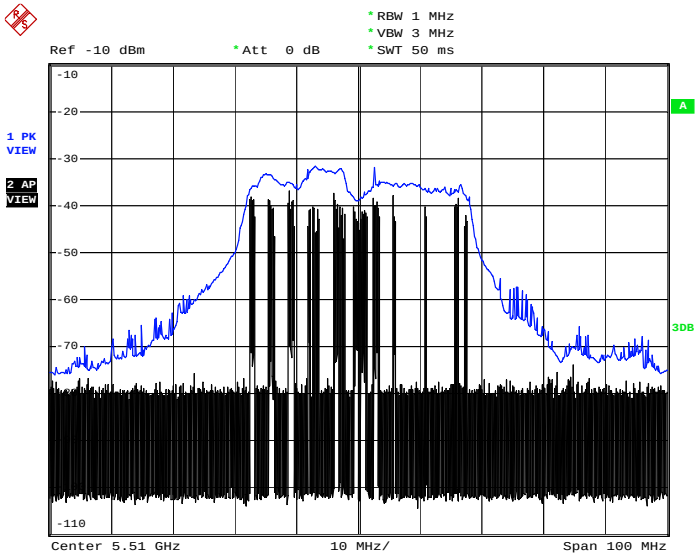
1) EUT links with master on 5510MHz.

Waveform of EUT links up with Master



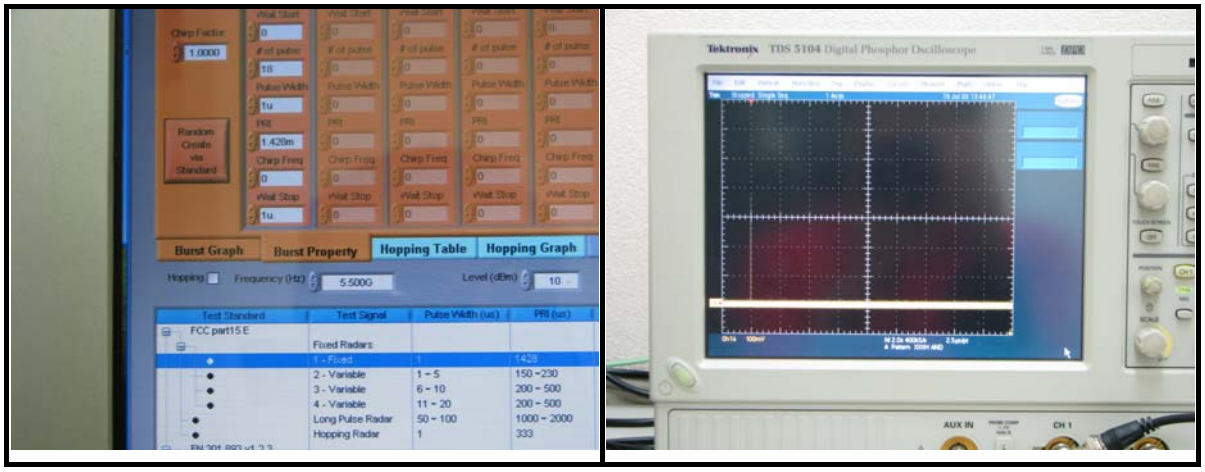

2) Client plays specified files via master.

Waveform of transmission

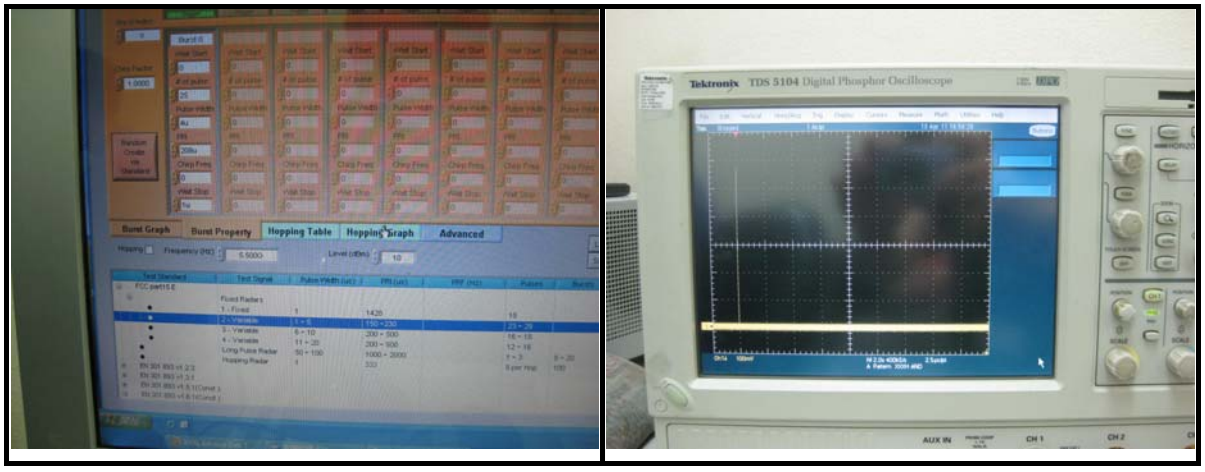


3) Radar signal is applied to the Master device and WiFi traffic signal stop immediately.

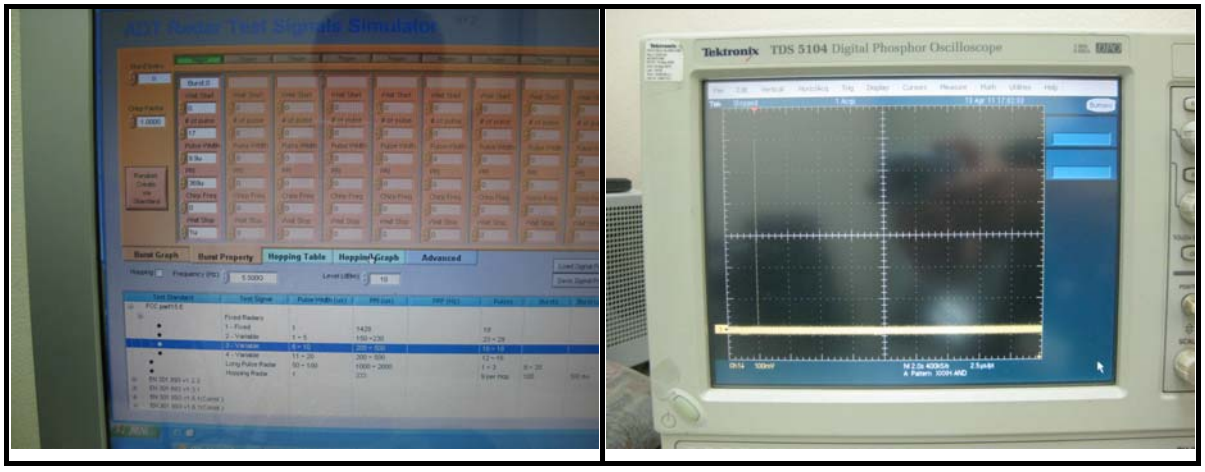
**Radar 1**



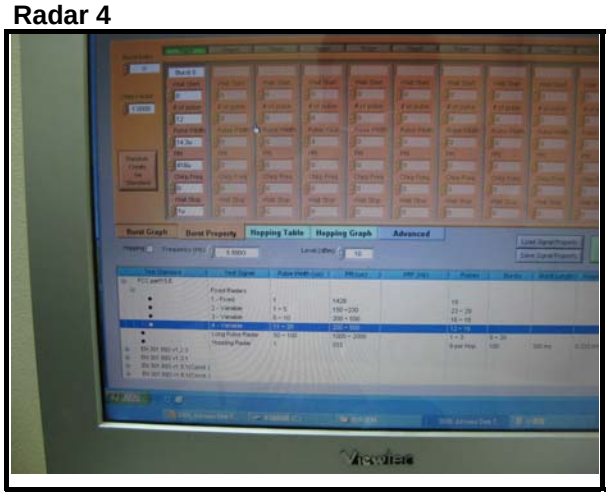

**Radar 2**

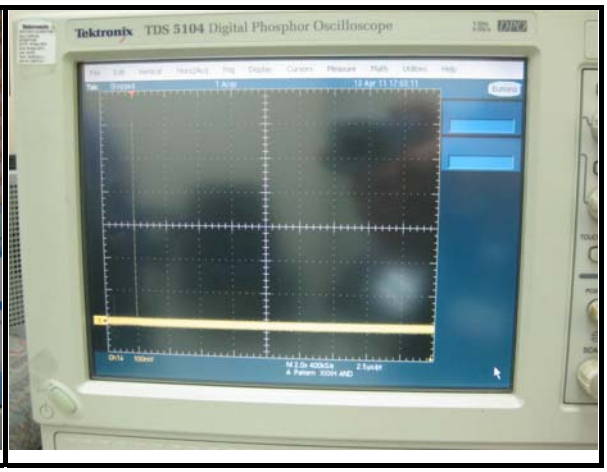



**Radar 3**

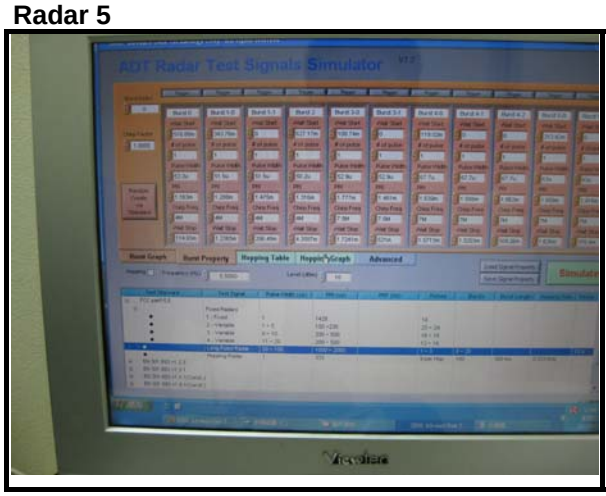


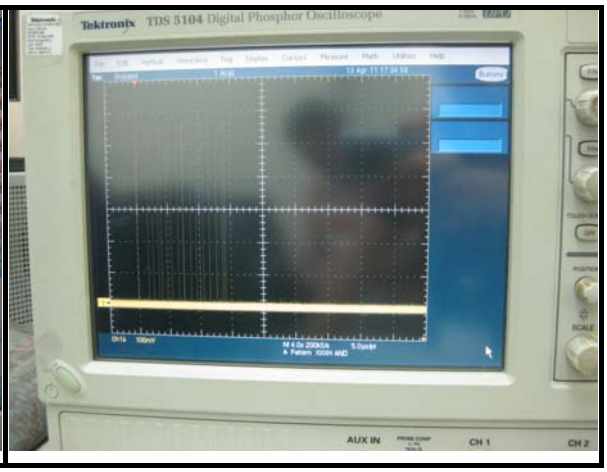
**Radar 4**



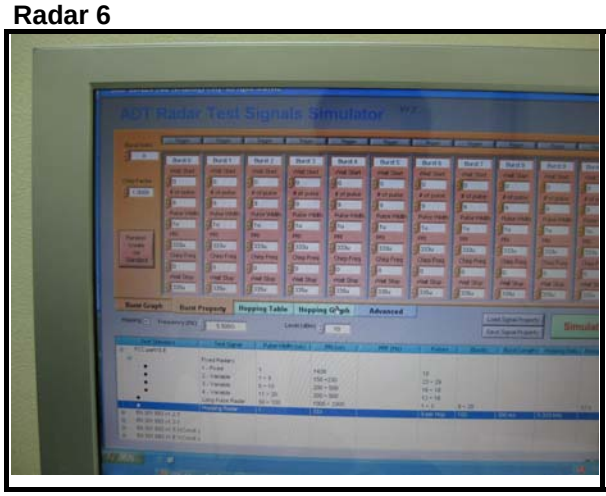


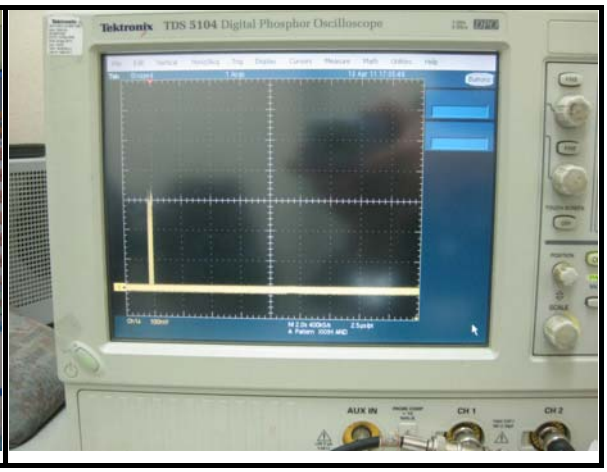

**Radar 5**




**Radar 6**

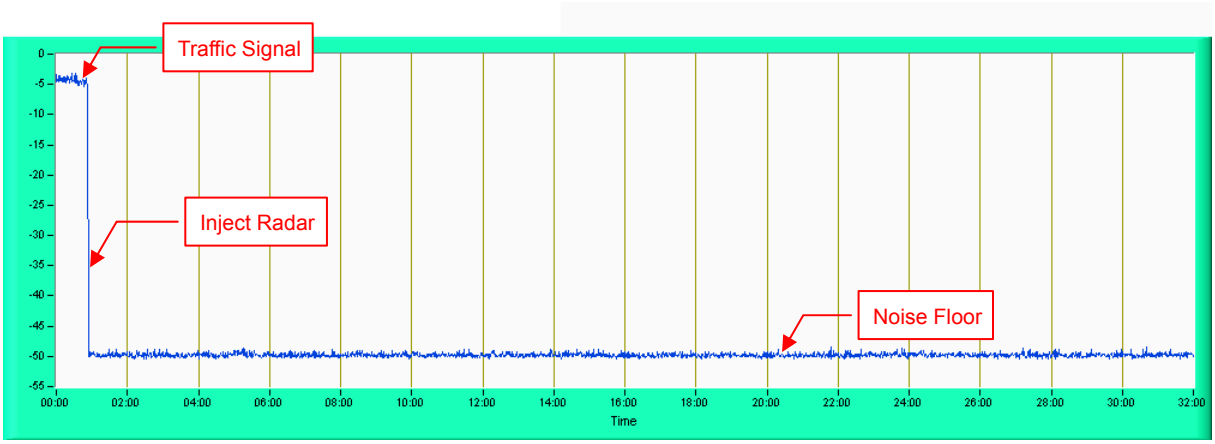


4) 5510MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

**802.11an 40MHz**




**NOTE:** Test setup are shown on Test set up 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)

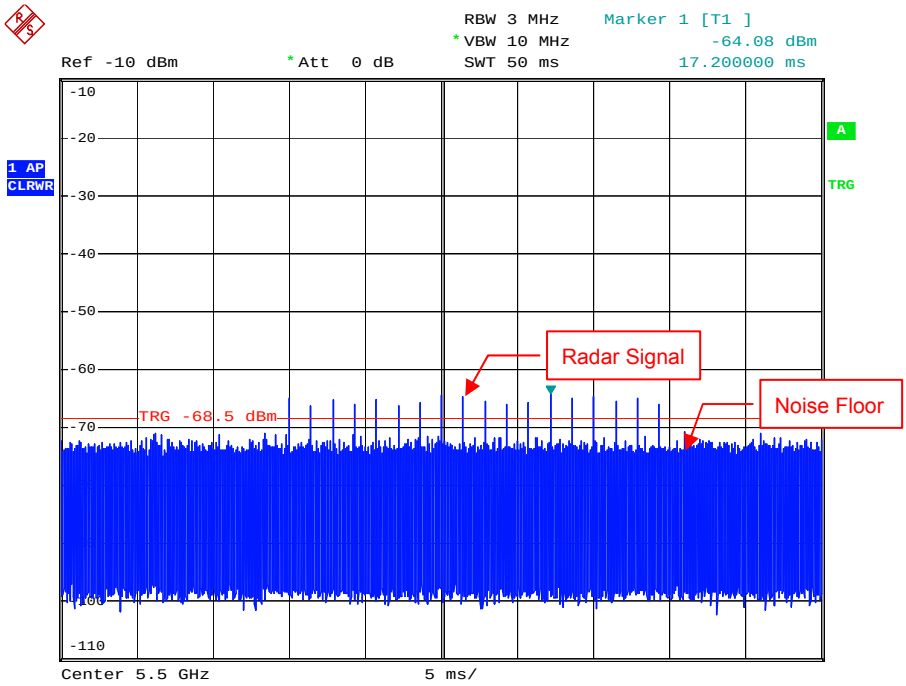
According to FCC 15.407(h)(1) the TPC mechanism is not required for system with an E.I.R.P. of less 500mW

## 6.2.8 TEST MODE: DEVICE OPERATING IN CLIENT WITHOUT RADAR DETECTION MODE

Client with injection at the Master. (The radar test signals are injected into the Master Device.

## 6.2.9 DFS DETECTION THRESHOLD

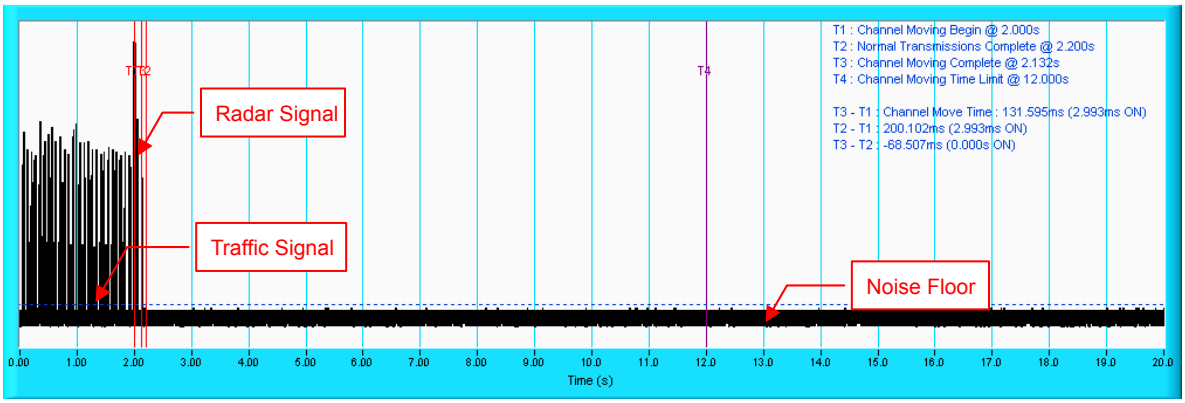
For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64 dBm. The tested level is lower than required level hence it provides margin to the limit.



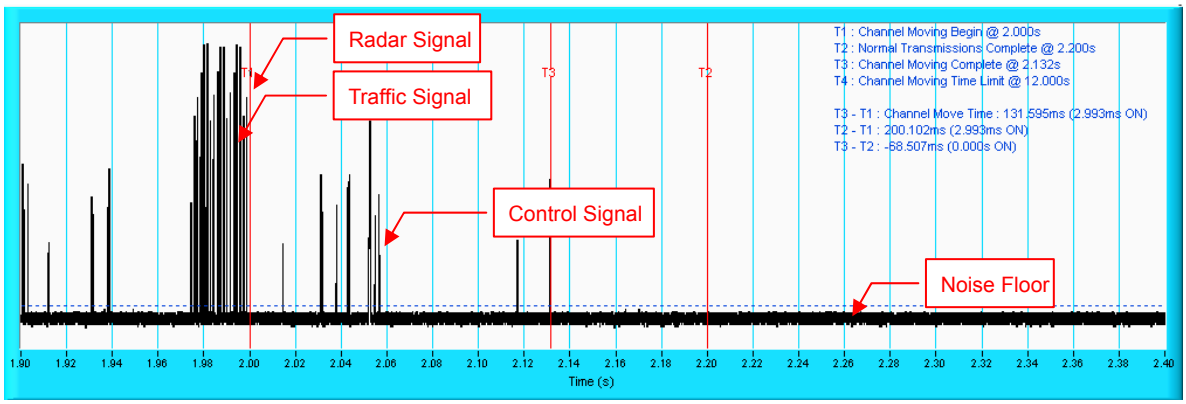

Radar Signal 1

## 6.2.10 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

IEEE 802.11n 40MHz




**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.




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

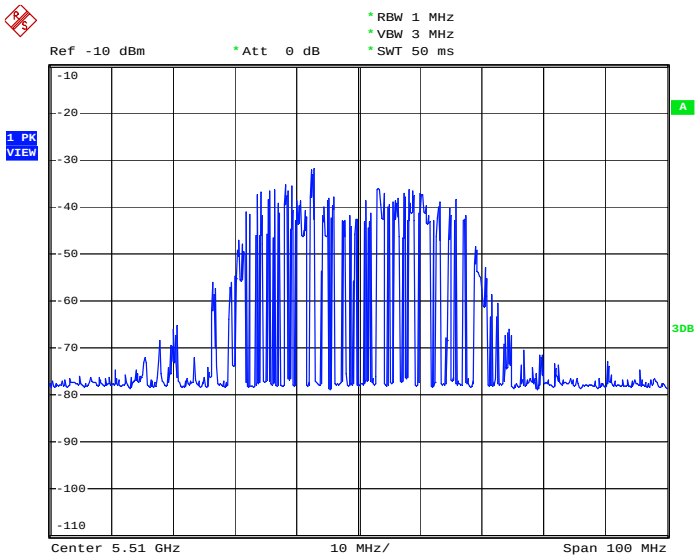
## 6.2.11 NON- OCCUPANCY PERIOD

**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.

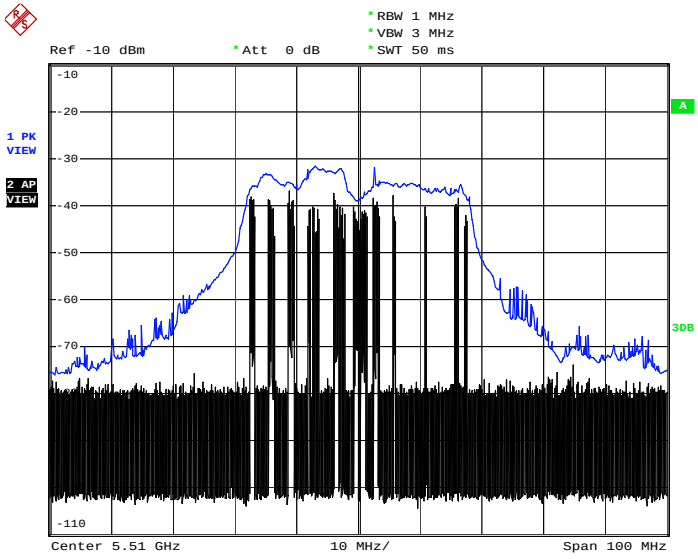
1) EUT links with master on 5510MHz.

Waveform of EUT links up with Master



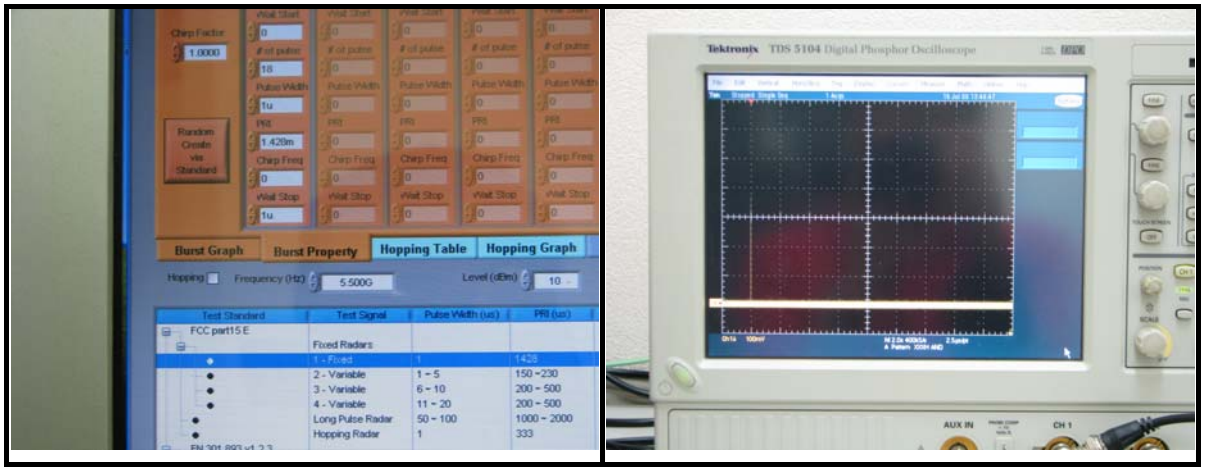

2) Client plays specified files via master.

Waveform of transmission



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

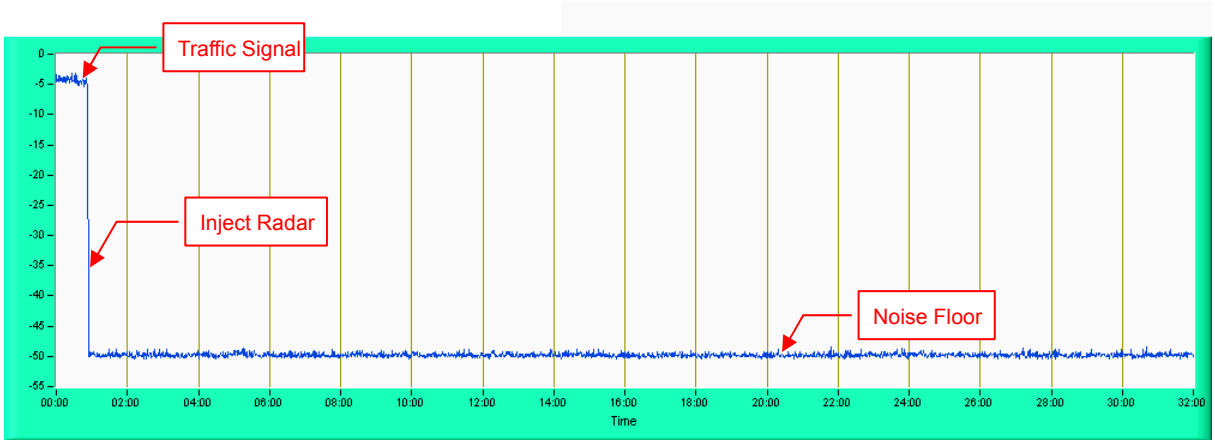
**Radar 1**




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

Plot of 30minutes period

**802.11an 40MHz**



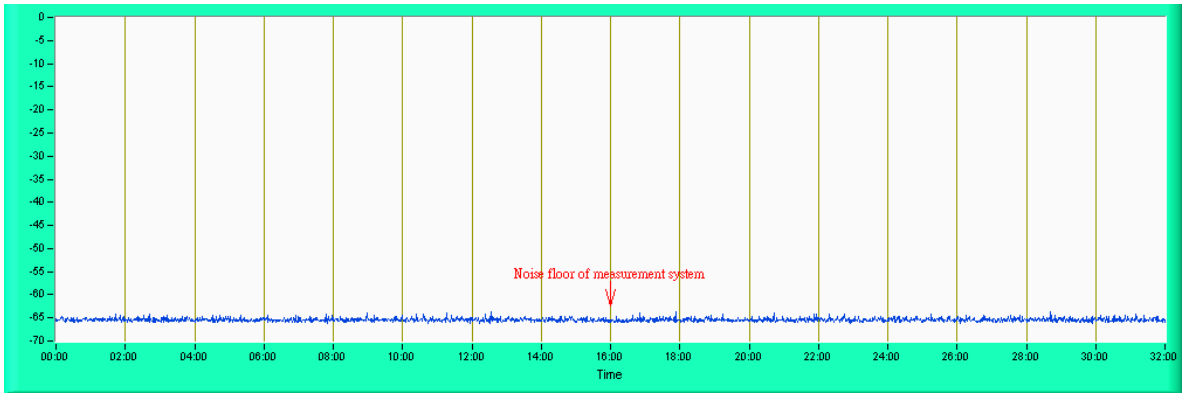

**NOTE:** Test setup are shown on Test set up photo.pdf

## 6.2.12 NON-ASSOCIATED TEST

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

**802.11an 40MHz**




## 6.2.13 NON- CO-CHANNEL TEST

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

# 7. INFORMATION ON THE TESTING LABORATORIES

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

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


**Linko EMC/RF Lab**
Tel: 886-2-26052180
Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab**
Tel: 886-3-5935343
Fax: 886-3-5935342

**Hwa Ya EMC/RF/Safety/Telecom Lab**
Tel: 886-3-3183232
Fax: 886-3-3270892

**Email:** service.adt@tw.bureauveritas.com
**Web Site:** www.bureauveritas-adt.com


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

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

No modifications were made to the EUT by the lab during the test.

**---END---**

# Annex-A

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

### IEEE 802.11N 40MHz

| Type 1 Radar Statistical Performances | | | | |
|---|---|---|---|---|
| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1 | 18 | 1.0u | 1.428m | Yes |
| 2 | 18 | 1.0u | 1.428m | Yes |
| 3 | 18 | 1.0u | 1.428m | Yes |
| 4 | 18 | 1.0u | 1.428m | Yes |
| 5 | 18 | 1.0u | 1.428m | Yes |
| 6 | 18 | 1.0u | 1.428m | Yes |
| 7 | 18 | 1.0u | 1.428m | Yes |
| 8 | 18 | 1.0u | 1.428m | Yes |
| 9 | 18 | 1.0u | 1.428m | Yes |
| 10 | 18 | 1.0u | 1.428m | Yes |
| 11 | 18 | 1.0u | 1.428m | Yes |
| 12 | 18 | 1.0u | 1.428m | Yes |
| 13 | 18 | 1.0u | 1.428m | Yes |
| 14 | 18 | 1.0u | 1.428m | Yes |
| 15 | 18 | 1.0u | 1.428m | Yes |
| 16 | 18 | 1.0u | 1.428m | Yes |
| 17 | 18 | 1.0u | 1.428m | Yes |
| 18 | 18 | 1.0u | 1.428m | Yes |
| 19 | 18 | 1.0u | 1.428m | Yes |
| 20 | 18 | 1.0u | 1.428m | Yes |
| 21 | 18 | 1.0u | 1.428m | Yes |
| 22 | 18 | 1.0u | 1.428m | Yes |
| 23 | 18 | 1.0u | 1.428m | Yes |
| 24 | 18 | 1.0u | 1.428m | Yes |
| 25 | 18 | 1.0u | 1.428m | Yes |
| 26 | 18 | 1.0u | 1.428m | Yes |
| 27 | 18 | 1.0u | 1.428m | Yes |
| 28 | 18 | 1.0u | 1.428m | Yes |
| 29 | 18 | 1.0u | 1.428m | Yes |
| 30 | 18 | 1.0u | 1.428m | Yes |
| | | | | Detection Rate: 100.0 % |

| Type 2 Radar Statistical Performances | | | | |
|---|---|---|---|---|
| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1 | 28 | 4.3u | 171.0u | Yes |
| 2 | 25 | 2.8u | 201.0u | Yes |
| 3 | 26 | 3.6u | 228.0u | Yes |
| 4 | 28 | 2.5u | 204.0u | Yes |
| 5 | 24 | 3.5u | 193.0u | Yes |
| 6 | 23 | 3.1u | 216.0u | Yes |
| 7 | 27 | 3.5u | 188.0u | Yes |
| 8 | 24 | 3.6u | 184.0u | Yes |
| 9 | 25 | 2.0u | 159.0u | Yes |
| 10 | 25 | 1.5u | 201.0u | Yes |
| 11 | 29 | 3.9u | 206.0u | Yes |
| 12 | 27 | 4.6u | 218.0u | Yes |
| 13 | 27 | 4.6u | 214.0u | Yes |
| 14 | 28 | 1.2u | 225.0u | Yes |
| 15 | 24 | 4.7u | 169.0u | Yes |
| 16 | 27 | 3.9u | 190.0u | Yes |
| 17 | 26 | 3.3u | 218.0u | Yes |
| 18 | 28 | 4.1u | 163.0u | Yes |
| 19 | 25 | 3.8u | 153.0u | Yes |
| 20 | 28 | 4.0u | 185.0u | Yes |
| 21 | 27 | 1.3u | 200.0u | Yes |
| 22 | 26 | 1.5u | 228.0u | Yes |
| 23 | 27 | 2.7u | 228.0u | Yes |
| 24 | 28 | 3.5u | 220.0u | Yes |
| 25 | 25 | 3.4u | 204.0u | Yes |
| 26 | 24 | 2.7u | 205.0u | Yes |
| 27 | 26 | 4.3u | 220.0u | Yes |
| 28 | 27 | 2.7u | 167.0u | Yes |
| 29 | 25 | 3.0u | 153.0u | Yes |
| 30 | 26 | 1.5u | 204.0u | Yes |
| | | | | Detection Rate: 100.0 % |

| Type 3 Radar Statistical Performances | | | | |
|---|---|---|---|---|
| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1 | 18 | 7.1u | 412.0u | Yes |
| 2 | 18 | 9.7u | 423.0u | Yes |
| 3 | 17 | 7.4u | 489.0u | Yes |
| 4 | 17 | 7.8u | 280.0u | Yes |
| 5 | 17 | 9.7u | 416.0u | Yes |
| 6 | 18 | 8.4u | 224.0u | No |
| 7 | 17 | 8.5u | 363.0u | Yes |
| 8 | 16 | 7.1u | 409.0u | Yes |
| 9 | 16 | 6.0u | 411.0u | Yes |
| 10 | 17 | 7.6u | 207.0u | Yes |
| 11 | 17 | 9.2u | 333.0u | Yes |
| 12 | 17 | 8.8u | 338.0u | Yes |
| 13 | 17 | 9.7u | 473.0u | Yes |
| 14 | 17 | 9.1u | 320.0u | Yes |
| 15 | 17 | 7.3u | 239.0u | Yes |
| 16 | 17 | 6.6u | 335.0u | Yes |
| 17 | 18 | 9.2u | 295.0u | Yes |
| 18 | 16 | 8.9u | 414.0u | Yes |
| 19 | 18 | 9.5u | 387.0u | Yes |
| 20 | 16 | 7.3u | 497.0u | Yes |
| 21 | 16 | 7.1u | 426.0u | Yes |
| 22 | 17 | 6.0u | 493.0u | Yes |
| 23 | 17 | 9.5u | 315.0u | Yes |
| 24 | 18 | 7.9u | 338.0u | Yes |
| 25 | 18 | 9.3u | 477.0u | Yes |
| 26 | 17 | 6.0u | 327.0u | Yes |
| 27 | 17 | 6.7u | 495.0u | Yes |
| 28 | 17 | 6.0u | 336.0u | Yes |
| 29 | 18 | 6.4u | 372.0u | Yes |
| 30 | 17 | 7.5u | 494.0u | Yes |
| | | | | Detection Rate: 96.7 % |

| Type 4 Radar Statistical Performances | | | | |
|---|---|---|---|---|
| Trial # | Pulses per Burst | Pulse Width (s) | PRI (s) | Detection |
| 1 | 12 | 19.3u | 412.0u | Yes |
| 2 | 12 | 17.8u | 261.0u | Yes |
| 3 | 12 | 19.3u | 459.0u | Yes |
| 4 | 15 | 13.7u | 463.0u | Yes |
| 5 | 16 | 17.6u | 377.0u | Yes |
| 6 | 15 | 14.1u | 290.0u | Yes |
| 7 | 15 | 15.4u | 213.0u | Yes |
| 8 | 15 | 18.2u | 363.0u | Yes |
| 9 | 15 | 16.6u | 388.0u | Yes |
| 10 | 12 | 11.0u | 384.0u | Yes |
| 11 | 13 | 16.1u | 469.0u | Yes |
| 12 | 13 | 13.3u | 224.0u | Yes |
| 13 | 15 | 12.0u | 470.0u | Yes |
| 14 | 13 | 17.7u | 312.0u | Yes |
| 15 | 13 | 17.1u | 336.0u | Yes |
| 16 | 16 | 12.1u | 227.0u | Yes |
| 17 | 13 | 15.2u | 477.0u | Yes |
| 18 | 13 | 15.4u | 319.0u | Yes |
| 19 | 13 | 14.8u | 352.0u | Yes |
| 20 | 15 | 17.8u | 354.0u | Yes |
| 21 | 14 | 11.8u | 462.0u | Yes |
| 22 | 16 | 12.8u | 234.0u | Yes |
| 23 | 15 | 12.5u | 395.0u | Yes |
| 24 | 13 | 14.8u | 459.0u | Yes |
| 25 | 15 | 15.3u | 496.0u | Yes |
| 26 | 12 | 18.1u | 447.0u | Yes |
| 27 | 14 | 16.5u | 297.0u | Yes |
| 28 | 13 | 15.6u | 377.0u | Yes |
| 29 | 14 | 19.1u | 362.0u | Yes |
| 30 | 16 | 15.7u | 374.0u | Yes |
| | | | | Detection Rate: 100.0 % |

| Type 5 Radar Statistical Performances | | |
|---|---|---|
| Trial # | Test Signal Name | Detection |
| 1 | LP_Signal_01 | No |
| 2 | LP_Signal_02 | No |
| 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 | No |
| 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: 90.0 % |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_01
Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 9M | 68.9u | 1.411m | - | 576.7m |
| 2 | 1 | 19M | 68.1u | - | - | 327.0m |
| 3 | 1 | 8M | 73.1u | - | - | 329.8m |
| 4 | 1 | 11M | 70.3u | - | - | 44.41m |
| 5 | 2 | 7M | 50.4u | 957.6u | - | 660.5m |
| 6 | 2 | 15M | 51.9u | 1.882m | - | 438.9m |
| 7 | 2 | 16M | 93.9u | 1.290m | - | 365.3m |
| 8 | 2 | 14M | 95.8u | 1.523m | - | 597.3m |
| 9 | 2 | 7M | 65.6u | 1.331m | - | 476.5m |
| 10 | 2 | 7M | 59.5u | 1.208m | - | 601.3m |
| 11 | 2 | 10M | 64.9u | 1.052m | - | 327.2m |
| 12 | 3 | 20M | 70.5u | 1.040m | 1.865m | 263.3m |
| 13 | 2 | 18M | 55.6u | 983.4u | - | 683.9m |
| 14 | 1 | 10M | 93.1u | - | - | 601.9m |
| 15 | 1 | 18M | 50.9u | - | - | 383.8m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_02<br>Number of Bursts in Trial: 13 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 2 | 11M | 61.6u | 1.277m | - | 193.3m |
| 2 | 3 | 6M | 94.4u | 1.419m | 1.605m | 356.4m |
| 3 | 3 | 19M | 93.6u | 1.143m | 1.282m | 49.15m |
| 4 | 1 | 13M | 82.3u | - | - | 380.4m |
| 5 | 1 | 14M | 79.6u | - | - | 500.5m |
| 6 | 2 | 15M | 53.8u | 1.716m | - | 412.6m |
| 7 | 1 | 10M | 74.7u | - | - | 189.7m |
| 8 | 1 | 9M | 98.9u | - | - | 864.9m |
| 9 | 1 | 8M | 66.6u | - | - | 822.0m |
| 10 | 1 | 15M | 63.1u | - | - | 711.5m |
| 11 | 1 | 16M | 81.2u | - | - | 98.65m |
| 12 | 3 | 16M | 76.6u | 998.4u | 1.915m | 808.9m |
| 13 | 3 | 18M | 86.0u | 1.247m | 1.479m | 253.8m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_03
Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 11M | 78.1u | 1.333m | - | 473.5m |
| 2 | 2 | 12M | 68.0u | 1.332m | - | 311.3m |
| 3 | 2 | 11M | 61.9u | 1.647m | - | 245.5m |
| 4 | 2 | 17M | 89.7u | 1.793m | - | 450.3m |
| 5 | 2 | 18M | 89.1u | 1.436m | - | 740.0m |
| 6 | 1 | 16M | 91.5u | - | - | 644.2m |
| 7 | 2 | 19M | 98.3u | 1.429m | - | 317.1m |
| 8 | 2 | 19M | 95.3u | 1.512m | - | 51.43m |
| 9 | 2 | 19M | 96.9u | 1.231m | - | 538.8m |
| 10 | 2 | 12M | 86.9u | 1.438m | - | 843.6m |
| 11 | 2 | 18M | 85.8u | 1.114m | - | 444.1m |
| 12 | 2 | 20M | 51.0u | 1.946m | - | 568.2m |
| 13 | 2 | 14M | 51.1u | 1.772m | - | 52.70m |
| 14 | 3 | 7M | 62.3u | 1.263m | 1.818m | 788.4m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_04
Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 3 | 12M | 95.4u | 1.208m | 1.304m | 599.6m |
| 2 | 2 | 6M | 52.0u | 1.207m | - | 393.6m |
| 3 | 1 | 10M | 94.3u | - | - | 254.3m |
| 4 | 2 | 19M | 98.4u | 1.502m | - | 632.4m |
| 5 | 2 | 12M | 64.3u | 1.067m | - | 604.5m |
| 6 | 2 | 13M | 57.1u | 1.915m | - | 379.3m |
| 7 | 3 | 20M | 97.1u | 1.540m | 1.696m | 538.1m |
| 8 | 1 | 15M | 68.6u | - | - | 439.9m |
| 9 | 2 | 16M | 61.4u | 1.474m | - | 355.4m |
| 10 | 1 | 17M | 50.7u | - | - | 429.2m |
| 11 | 1 | 13M | 88.8u | - | - | 125.3m |
| 12 | 2 | 17M | 80.4u | 1.047m | - | 234.4m |
| 13 | 3 | 20M | 74.6u | 1.440m | 1.386m | 607.1m |
| 14 | 2 | 15M | 70.2u | 1.306m | - | 474.7m |
| 15 | 2 | 13M | 90.5u | 1.149m | - | 479.8m |
| 16 | 2 | 7M | 81.7u | 1.716m | - | 312.0m |
| 17 | 2 | 10M | 53.1u | 1.644m | - | 612.6m |
| 18 | 3 | 15M | 60.1u | 1.680m | 944.9u | 616.0m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_05
Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 12M | 64.4u | 1.494m | - | 50.38m |
| 2 | 3 | 20M | 67.3u | 932.7u | 1.803m | 101.6m |
| 3 | 3 | 5M | 63.5u | 1.063m | 1.598m | 284.4m |
| 4 | 2 | 7M | 50.9u | 1.143m | - | 458.0m |
| 5 | 3 | 11M | 84.3u | 1.596m | 1.358m | 646.6m |
| 6 | 1 | 8M | 69.2u | - | - | 68.88m |
| 7 | 1 | 9M | 54.7u | - | - | 617.4m |
| 8 | 2 | 11M | 74.2u | 1.486m | - | 154.3m |
| 9 | 1 | 10M | 82.1u | - | - | 386.9m |
| 10 | 2 | 10M | 72.5u | 1.790m | - | 245.9m |
| 11 | 1 | 18M | 77.9u | - | - | 519.1m |
| 12 | 1 | 16M | 80.3u | - | - | 239.4m |
| 13 | 2 | 18M | 56.2u | 1.183m | - | 516.2m |
| 14 | 2 | 18M | 60.9u | 1.542m | - | 257.9m |
| 15 | 2 | 13M | 95.9u | 1.475m | - | 516.8m |
| 16 | 2 | 12M | 86.3u | 1.851m | - | 307.9m |
| 17 | 2 | 10M | 94.5u | 1.847m | - | 55.81m |
| 18 | 2 | 7M | 58.5u | 1.626m | - | 92.62m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_06
Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 10M | 99.2u | 1.332m | - | 284.3m |
| 2 | 3 | 18M | 64.1u | 1.619m | 1.182m | 386.7m |
| 3 | 2 | 14M | 94.1u | 1.493m | - | 517.3m |
| 4 | 2 | 9M | 87.0u | 1.878m | - | 42.99m |
| 5 | 1 | 6M | 68.6u | - | - | 843.0m |
| 6 | 2 | 10M | 73.7u | 1.024m | - | 711.7m |
| 7 | 3 | 6M | 58.9u | 1.934m | 1.212m | 129.7m |
| 8 | 2 | 13M | 92.1u | 1.023m | - | 78.67m |
| 9 | 1 | 15M | 56.5u | - | - | 15.19m |
| 10 | 2 | 9M | 90.0u | 1.651m | - | 258.4m |
| 11 | 1 | 16M | 91.8u | - | - | 30.17m |
| 12 | 2 | 17M | 80.3u | 1.052m | - | 850.7m |
| 13 | 2 | 19M | 91.7u | 933.3u | - | 499.7m |
| 14 | 2 | 11M | 56.6u | 1.301m | - | 528.9m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_07
Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 13M | 91.4u | 1.137m | - | 11.50m |
| 2 | 2 | 14M | 60.5u | 1.790m | - | 526.8m |
| 3 | 2 | 19M | 77.9u | 1.275m | - | 481.8m |
| 4 | 1 | 15M | 55.3u | - | - | 621.7m |
| 5 | 3 | 9M | 83.5u | 1.585m | 1.793m | 258.1m |
| 6 | 2 | 14M | 76.8u | 1.154m | - | 495.0m |
| 7 | 2 | 7M | 98.9u | 1.047m | - | 656.1m |
| 8 | 3 | 7M | 59.6u | 1.767m | 1.869m | 431.6m |
| 9 | 1 | 8M | 99.5u | - | - | 139.2m |
| 10 | 3 | 14M | 80.1u | 1.215m | 1.898m | 390.9m |
| 11 | 1 | 7M | 80.1u | - | - | 85.37m |
| 12 | 2 | 16M | 68.3u | 1.387m | - | 527.2m |
| 13 | 2 | 19M | 66.0u | 1.096m | - | 228.7m |
| 14 | 3 | 10M | 62.3u | 1.907m | 1.890m | 535.5m |
| 15 | 2 | 19M | 57.6u | 1.139m | - | 195.9m |
| 16 | 1 | 8M | 50.1u | - | - | 627.0m |
| 17 | 2 | 19M | 68.1u | 1.532m | - | 450.3m |
| 18 | 1 | 18M | 89.1u | - | - | 377.1m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_08<br>Number of Bursts in Trial: 18 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 2 | 8M | 66.7u | 1.385m | - | 413.8m |
| 2 | 2 | 17M | 64.4u | 948.6u | - | 102.4m |
| 3 | 3 | 16M | 75.3u | 1.382m | 1.112m | 427.3m |
| 4 | 3 | 7M | 69.4u | 1.453m | 1.137m | 163.3m |
| 5 | 1 | 9M | 72.9u | - | - | 129.6m |
| 6 | 1 | 11M | 71.1u | - | - | 149.4m |
| 7 | 2 | 16M | 55.8u | 1.229m | - | 50.55m |
| 8 | 2 | 8M | 63.4u | 1.478m | - | 59.17m |
| 9 | 2 | 8M | 78.2u | 1.561m | - | 555.3m |
| 10 | 1 | 11M | 92.7u | - | - | 428.1m |
| 11 | 2 | 13M | 99.2u | 1.044m | - | 38.98m |
| 12 | 2 | 14M | 80.0u | 1.420m | - | 539.4m |
| 13 | 2 | 15M | 85.7u | 974.3u | - | 556.4m |
| 14 | 2 | 18M | 86.1u | 1.879m | - | 459.3m |
| 15 | 2 | 14M | 63.3u | 1.800m | - | 11.84m |
| 16 | 2 | 14M | 73.4u | 1.631m | - | 448.3m |
| 17 | 2 | 6M | 69.7u | 1.568m | - | 77.41m |
| 18 | 1 | 17M | 73.6u | - | - | 166.3m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_09<br>Number of Bursts in Trial: 9 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 1 | 16M | 82.1u | - | - | 1.282 |
| 2 | 2 | 11M | 84.3u | 1.831m | - | 1.037 |
| 3 | 3 | 13M | 51.1u | 1.905m | 1.646m | 652.9m |
| 4 | 2 | 8M | 58.1u | 1.473m | - | 1.320 |
| 5 | 1 | 9M | 60.8u | - | - | 241.8m |
| 6 | 1 | 6M | 80.6u | - | - | 28.24m |
| 7 | 2 | 5M | 70.8u | 1.626m | - | 49.18m |
| 8 | 2 | 14M | 71.8u | 1.075m | - | 50.94m |
| 9 | 1 | 7M | 73.8u | - | - | 540.5m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_10<br>Number of Bursts in Trial: 14 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 3 | 14M | 70.0u | 1.833m | 1.879m | 538.0m |
| 2 | 2 | 14M | 61.9u | 1.430m | - | 854.0m |
| 3 | 2 | 10M | 61.6u | 1.810m | - | 737.6m |
| 4 | 3 | 11M | 52.1u | 1.772m | 1.743m | 136.4m |
| 5 | 1 | 15M | 53.0u | - | - | 90.25m |
| 6 | 3 | 15M | 54.1u | 1.291m | 1.677m | 223.3m |
| 7 | 2 | 7M | 78.2u | 1.839m | - | 349.3m |
| 8 | 3 | 7M | 71.5u | 1.165m | 1.246m | 657.4m |
| 9 | 2 | 13M | 54.8u | 1.898m | - | 189.3m |
| 10 | 2 | 19M | 97.7u | 1.678m | - | 406.1m |
| 11 | 1 | 6M | 72.5u | - | - | 725.4m |
| 12 | 1 | 6M | 71.0u | - | - | 643.7m |
| 13 | 3 | 13M | 93.8u | 1.552m | 1.686m | 522.3m |
| 14 | 3 | 9M | 64.9u | 1.373m | 1.083m | 353.7m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_11
Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 1 | 7M | 83.5u | - | - | 600.2m |
| 2 | 2 | 17M | 98.7u | 1.007m | - | 604.2m |
| 3 | 1 | 12M | 59.7u | - | - | 774.8m |
| 4 | 2 | 9M | 62.2u | 1.522m | - | 178.7m |
| 5 | 3 | 16M | 61.5u | 1.465m | 1.126m | 548.5m |
| 6 | 3 | 15M | 70.4u | 1.839m | 1.082m | 187.0m |
| 7 | 3 | 10M | 74.9u | 1.394m | 1.115m | 572.7m |
| 8 | 1 | 10M | 53.4u | - | - | 497.1m |
| 9 | 2 | 10M | 73.2u | 1.172m | - | 516.0m |
| 10 | 1 | 6M | 65.8u | - | - | 622.7m |
| 11 | 2 | 18M | 70.1u | 1.522m | - | 40.71m |
| 12 | 3 | 14M | 74.9u | 1.811m | 1.040m | 457.2m |
| 13 | 3 | 16M | 58.3u | 1.445m | 1.130m | 23.07m |
| 14 | 2 | 15M | 77.0u | 1.647m | - | 645.3m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_12
Number of Bursts in Trial: 12

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 12M | 99.9u | 1.230m | - | 227.0m |
| 2 | 3 | 6M | 70.4u | 1.038m | 1.779m | 16.93m |
| 3 | 2 | 15M | 57.4u | 1.276m | - | 67.91m |
| 4 | 2 | 19M | 99.5u | 1.305m | - | 586.7m |
| 5 | 1 | 5M | 67.4u | - | - | 896.8m |
| 6 | 2 | 10M | 56.9u | 1.285m | - | 749.9m |
| 7 | 3 | 9M | 98.6u | 1.888m | 1.754m | 399.1m |
| 8 | 1 | 11M | 71.0u | - | - | 173.2m |
| 9 | 3 | 5M | 68.6u | 1.021m | 1.229m | 971.7m |
| 10 | 2 | 6M | 79.7u | 1.397m | - | 238.6m |
| 11 | 3 | 12M | 70.8u | 1.623m | 1.112m | 652.3m |
| 12 | 2 | 19M | 63.0u | 1.150m | - | 759.7m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_13
Number of Bursts in Trial: 14

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 3 | 12M | 76.1u | 1.360m | 953.9u | 719.9m |
| 2 | 1 | 6M | 61.6u | - | - | 272.4m |
| 3 | 2 | 14M | 67.2u | 1.704m | - | 434.6m |
| 4 | 2 | 10M | 69.5u | 1.090m | - | 584.7m |
| 5 | 2 | 6M | 56.9u | 1.712m | - | 9.704m |
| 6 | 2 | 14M | 83.0u | 1.843m | - | 710.3m |
| 7 | 1 | 20M | 70.6u | - | - | 43.83m |
| 8 | 1 | 5M | 88.0u | - | - | 27.35m |
| 9 | 1 | 16M | 55.8u | - | - | 280.2m |
| 10 | 1 | 7M | 92.6u | - | - | 787.9m |
| 11 | 2 | 13M | 75.5u | 1.812m | - | 101.1m |
| 12 | 2 | 10M | 82.4u | 1.503m | - | 675.7m |
| 13 | 1 | 14M | 75.2u | - | - | 267.8m |
| 14 | 3 | 14M | 90.2u | 915.8u | 1.845m | 843.1m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_14
Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 6M | 54.3u | 1.785m | - | 699.9m |
| 2 | 2 | 15M | 81.4u | 1.472m | - | 436.8m |
| 3 | 2 | 12M | 63.3u | 1.570m | - | 389.8m |
| 4 | 2 | 6M | 88.2u | 1.871m | - | 737.0m |
| 5 | 2 | 19M | 67.9u | 1.509m | - | 519.6m |
| 6 | 2 | 6M | 95.7u | 1.089m | - | 283.2m |
| 7 | 2 | 5M | 91.1u | 1.795m | - | 179.7m |
| 8 | 2 | 7M | 57.8u | 956.2u | - | 485.4m |
| 9 | 2 | 15M | 66.9u | 1.634m | - | 320.9m |
| 10 | 2 | 18M | 86.0u | 956.0u | - | 723.7m |
| 11 | 2 | 11M | 72.7u | 1.268m | - | 382.2m |
| 12 | 2 | 16M | 86.1u | 1.338m | - | 518.3m |
| 13 | 2 | 18M | 97.2u | 907.8u | - | 619.5m |
| 14 | 2 | 11M | 80.9u | 1.462m | - | 68.29m |
| 15 | 2 | 11M | 69.2u | 1.329m | - | 356.2m |
| 16 | 2 | 17M | 53.5u | 1.442m | - | 428.0m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_15<br>Number of Bursts in Trial: 13 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 1 | 14M | 59.8u | - | - | 813.1m |
| 2 | 2 | 18M | 99.3u | 1.718m | - | 829.5m |
| 3 | 1 | 17M | 87.2u | - | - | 908.2m |
| 4 | 3 | 8M | 65.5u | 989.5u | 1.458m | 853.0m |
| 5 | 3 | 6M | 96.3u | 1.815m | 1.305m | 219.2m |
| 6 | 2 | 17M | 76.6u | 1.860m | - | 468.1m |
| 7 | 1 | 6M | 72.3u | - | - | 177.4m |
| 8 | 2 | 12M | 63.9u | 1.801m | - | 74.61m |
| 9 | 1 | 15M | 50.2u | - | - | 78.03m |
| 10 | 3 | 13M | 85.1u | 1.239m | 1.385m | 205.0m |
| 11 | 2 | 20M | 71.3u | 988.7u | - | 919.2m |
| 12 | 3 | 17M | 84.4u | 1.780m | 1.481m | 97.09m |
| 13 | 2 | 13M | 56.8u | 1.241m | - | 451.8m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_16
Number of Bursts in Trial: 15

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 8M | 68.4u | 1.412m | - | 435.2m |
| 2 | 2 | 12M | 73.4u | 1.353m | - | 472.3m |
| 3 | 2 | 18M | 97.0u | 1.372m | - | 673.0m |
| 4 | 2 | 11M | 79.2u | 1.511m | - | 510.4m |
| 5 | 2 | 16M | 54.6u | 1.191m | - | 306.9m |
| 6 | 2 | 19M | 52.4u | 1.041m | - | 715.5m |
| 7 | 2 | 6M | 67.6u | 1.824m | - | 672.1m |
| 8 | 2 | 10M | 83.9u | 1.848m | - | 353.8m |
| 9 | 1 | 15M | 65.2u | - | - | 653.8m |
| 10 | 3 | 18M | 61.0u | 1.523m | 1.930m | 85.56m |
| 11 | 1 | 8M | 58.6u | - | - | 405.2m |
| 12 | 2 | 14M | 93.6u | 1.178m | - | 772.2m |
| 13 | 2 | 7M | 77.2u | 1.002m | - | 551.1m |
| 14 | 2 | 8M | 57.4u | 1.270m | - | 471.9m |
| 15 | 2 | 13M | 79.4u | 1.627m | - | 152.6m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_17<br>Number of Bursts in Trial: 9 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 2 | 14M | 75.1u | 1.378m | - | 377.0m |
| 2 | 2 | 14M | 89.5u | 1.101m | - | 1.241 |
| 3 | 2 | 14M | 95.7u | 1.498m | - | 1.146 |
| 4 | 3 | 10M | 69.3u | 1.791m | 1.023m | 928.2m |
| 5 | 3 | 15M | 63.1u | 1.669m | 1.216m | 772.4m |
| 6 | 2 | 15M | 76.3u | 1.575m | - | 407.1m |
| 7 | 3 | 17M | 98.1u | 1.642m | 1.859m | 651.8m |
| 8 | 2 | 6M | 84.0u | 995.0u | - | 598.5m |
| 9 | 1 | 6M | 98.7u | - | - | 106.9m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_18<br>Number of Bursts in Trial: 9 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 1 | 12M | 63.0u | - | - | 599.2m |
| 2 | 1 | 14M | 96.1u | - | - | 1.264 |
| 3 | 3 | 10M | 66.1u | 1.689m | 1.394m | 943.3m |
| 4 | 1 | 17M | 87.4u | - | - | 88.44m |
| 5 | 1 | 10M | 88.1u | - | - | 1.149 |
| 6 | 3 | 20M | 62.8u | 1.773m | 1.675m | 558.8m |
| 7 | 2 | 15M | 60.6u | 1.889m | - | 420.8m |
| 8 | 2 | 10M | 97.2u | 903.8u | - | 1.126 |
| 9 | 2 | 20M | 89.0u | 966.0u | - | 911.4m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_19
Number of Bursts in Trial: 9

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 20M | 97.0u | 1.125m | - | 373.9m |
| 2 | 2 | 9M | 62.5u | 1.092m | - | 1.329 |
| 3 | 2 | 6M | 85.7u | 1.265m | - | 1.183 |
| 4 | 2 | 15M | 58.5u | 1.231m | - | 798.2m |
| 5 | 3 | 13M | 56.4u | 1.607m | 1.944m | 360.6m |
| 6 | 2 | 13M | 79.9u | 1.851m | - | 272.9m |
| 7 | 1 | 6M | 62.7u | - | - | 930.7m |
| 8 | 1 | 12M | 79.8u | - | - | 241.4m |
| 9 | 3 | 19M | 89.2u | 1.364m | 1.296m | 1.219 |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_20
Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 3 | 11M | 64.6u | 1.059m | 1.036m | 367.4m |
| 2 | 2 | 10M | 53.8u | 1.818m | - | 428.7m |
| 3 | 1 | 16M | 88.4u | - | - | 693.0m |
| 4 | 2 | 8M | 94.7u | 952.3u | - | 83.54m |
| 5 | 3 | 11M | 50.1u | 1.014m | 1.806m | 204.8m |
| 6 | 2 | 16M | 56.6u | 1.409m | - | 51.83m |
| 7 | 2 | 14M | 50.9u | 1.261m | - | 463.7m |
| 8 | 2 | 7M | 74.8u | 1.234m | - | 439.6m |
| 9 | 2 | 20M | 57.1u | 1.629m | - | 531.8m |
| 10 | 1 | 13M | 59.5u | - | - | 245.1m |
| 11 | 2 | 7M | 73.2u | 1.171m | - | 536.8m |
| 12 | 1 | 9M | 63.5u | - | - | 417.7m |
| 13 | 1 | 15M | 64.0u | - | - | 441.8m |
| 14 | 1 | 6M | 61.8u | - | - | 369.4m |
| 15 | 3 | 13M | 85.6u | 1.164m | 1.796m | 671.4m |
| 16 | 2 | 9M | 80.7u | 1.731m | - | 545.9m |
| 17 | 2 | 16M | 68.7u | 1.891m | - | 697.0m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_21
Number of Bursts in Trial: 17

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 1 | 5M | 50.8u | - | - | 524.5m |
| 2 | 1 | 13M | 86.0u | - | - | 335.3m |
| 3 | 3 | 12M | 93.0u | 1.323m | 1.119m | 386.8m |
| 4 | 1 | 15M | 61.4u | - | - | 565.4m |
| 5 | 1 | 9M | 93.8u | - | - | 555.7m |
| 6 | 2 | 12M | 66.2u | 1.477m | - | 589.0m |
| 7 | 2 | 10M | 56.6u | 1.840m | - | 131.8m |
| 8 | 3 | 6M | 79.0u | 1.641m | 1.525m | 112.7m |
| 9 | 2 | 13M | 69.5u | 1.703m | - | 340.5m |
| 10 | 1 | 10M | 98.8u | - | - | 550.2m |
| 11 | 2 | 8M | 83.1u | 1.242m | - | 485.9m |
| 12 | 1 | 8M | 83.9u | - | - | 484.6m |
| 13 | 1 | 6M | 85.9u | - | - | 74.78m |
| 14 | 2 | 11M | 64.0u | 1.416m | - | 283.2m |
| 15 | 1 | 5M | 98.6u | - | - | 173.0m |
| 16 | 3 | 10M | 60.8u | 1.537m | 1.404m | 514.6m |
| 17 | 2 | 7M | 84.0u | 1.265m | - | 430.4m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_22<br>Number of Bursts in Trial: 10 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 2 | 19M | 60.4u | 1.931m | - | 52.65m |
| 2 | 3 | 17M | 89.2u | 981.8u | 1.649m | 1.038 |
| 3 | 3 | 11M | 67.8u | 1.424m | 1.490m | 473.8m |
| 4 | 2 | 11M | 65.9u | 1.577m | - | 196.4m |
| 5 | 1 | 18M | 53.5u | - | - | 1.031 |
| 6 | 3 | 10M | 61.9u | 1.150m | 1.438m | 282.9m |
| 7 | 2 | 5M | 89.4u | 1.840m | - | 1.132 |
| 8 | 2 | 20M | 68.9u | 1.401m | - | 518.8m |
| 9 | 2 | 20M | 65.6u | 1.097m | - | 558.0m |
| 10 | 2 | 8M | 97.5u | 935.5u | - | 786.5m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_23<br>Number of Bursts in Trial: 12 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 2 | 8M | 85.4u | 1.006m | - | 248.9m |
| 2 | 2 | 11M | 54.6u | 1.020m | - | 879.9m |
| 3 | 3 | 16M | 56.9u | 1.606m | 1.038m | 287.3m |
| 4 | 3 | 16M | 78.5u | 1.350m | 1.741m | 448.3m |
| 5 | 2 | 19M | 84.6u | 1.799m | - | 546.7m |
| 6 | 2 | 20M | 53.8u | 1.695m | - | 288.6m |
| 7 | 2 | 20M | 65.5u | 1.860m | - | 361.9m |
| 8 | 2 | 19M | 58.1u | 992.9u | - | 130.4m |
| 9 | 3 | 7M | 92.4u | 1.387m | 1.267m | 277.8m |
| 10 | 2 | 7M | 64.7u | 1.200m | - | 936.9m |
| 11 | 2 | 13M | 59.5u | 1.781m | - | 134.9m |
| 12 | 2 | 16M | 76.0u | 1.050m | - | 559.5m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_24
Number of Bursts in Trial: 16

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 2 | 14M | 69.9u | 1.203m | - | 549.0m |
| 2 | 2 | 8M | 73.0u | 1.011m | - | 611.0m |
| 3 | 3 | 9M | 77.3u | 1.251m | 1.903m | 632.0m |
| 4 | 2 | 9M | 55.0u | 1.337m | - | 119.0m |
| 5 | 3 | 6M | 78.9u | 1.690m | 1.653m | 667.8m |
| 6 | 1 | 6M | 61.8u | - | - | 159.3m |
| 7 | 2 | 12M | 78.4u | 1.388m | - | 240.9m |
| 8 | 3 | 8M | 85.1u | 1.730m | 1.433m | 365.3m |
| 9 | 3 | 11M | 60.0u | 977.0u | 1.910m | 648.2m |
| 10 | 2 | 11M | 92.4u | 1.012m | - | 360.6m |
| 11 | 2 | 15M | 76.9u | 1.190m | - | 656.6m |
| 12 | 1 | 16M | 65.2u | - | - | 530.4m |
| 13 | 3 | 17M | 66.1u | 1.346m | 1.849m | 248.8m |
| 14 | 2 | 13M | 93.7u | 1.550m | - | 203.0m |
| 15 | 2 | 7M | 55.6u | 1.524m | - | 400.7m |
| 16 | 2 | 16M | 90.6u | 1.868m | - | 579.4m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_25<br>Number of Bursts in Trial: 9 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 1 | 11M | 62.3u | - | - | 677.7m |
| 2 | 2 | 16M | 68.9u | 1.710m | - | 446.6m |
| 3 | 2 | 13M | 81.8u | 1.462m | - | 680.9m |
| 4 | 2 | 13M | 73.0u | 1.050m | - | 14.18m |
| 5 | 2 | 14M | 52.0u | 1.301m | - | 137.5m |
| 6 | 1 | 20M | 56.6u | - | - | 1.186 |
| 7 | 2 | 17M | 54.9u | 1.058m | - | 570.6m |
| 8 | 2 | 5M | 71.5u | 1.926m | - | 324.4m |
| 9 | 2 | 9M | 52.1u | 1.618m | - | 380.9m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_26
Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 1 | 13M | 83.3u | - | - | 526.5m |
| 2 | 3 | 8M | 90.7u | 1.383m | 1.667m | 575.5m |
| 3 | 3 | 9M | 93.1u | 995.9u | 989.9u | 484.1m |
| 4 | 1 | 12M | 88.1u | - | - | 208.5m |
| 5 | 2 | 13M | 98.9u | 1.257m | - | 255.7m |
| 6 | 2 | 13M | 86.3u | 1.498m | - | 152.1m |
| 7 | 3 | 9M | 53.0u | 1.691m | 1.924m | 47.26m |
| 8 | 3 | 7M | 85.5u | 1.159m | 1.898m | 222.9m |
| 9 | 1 | 19M | 98.5u | - | - | 616.0m |
| 10 | 1 | 16M | 56.6u | - | - | 646.9m |
| 11 | 3 | 19M | 66.7u | 1.344m | 1.879m | 627.0m |
| 12 | 2 | 16M | 62.9u | 1.311m | - | 150.9m |
| 13 | 1 | 8M | 93.7u | - | - | 379.3m |
| 14 | 2 | 18M | 94.8u | 1.894m | - | 366.9m |
| 15 | 1 | 14M | 62.3u | - | - | 237.5m |
| 16 | 2 | 17M | 79.3u | 1.313m | - | 248.0m |
| 17 | 2 | 15M | 72.0u | 1.515m | - | 184.7m |
| 18 | 1 | 16M | 70.7u | - | - | 527.6m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_27
Number of Bursts in Trial: 20

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 3 | 19M | 53.9u | 1.843m | 1.736m | 507.1m |
| 2 | 1 | 14M | 98.6u | - | - | 190.1m |
| 3 | 2 | 16M | 59.7u | 1.917m | - | 396.3m |
| 4 | 3 | 12M | 91.5u | 1.494m | 1.257m | 160.6m |
| 5 | 2 | 6M | 76.4u | 1.424m | - | 444.4m |
| 6 | 2 | 13M | 83.2u | 1.553m | - | 585.7m |
| 7 | 3 | 5M | 97.2u | 1.653m | 1.722m | 394.6m |
| 8 | 2 | 13M | 81.5u | 1.293m | - | 298.6m |
| 9 | 2 | 6M | 58.7u | 1.222m | - | 122.8m |
| 10 | 3 | 12M | 72.8u | 1.259m | 1.120m | 71.43m |
| 11 | 2 | 12M | 79.2u | 1.865m | - | 54.54m |
| 12 | 1 | 12M | 52.5u | - | - | 509.1m |
| 13 | 2 | 10M | 52.2u | 1.761m | - | 282.7m |
| 14 | 1 | 10M | 92.5u | - | - | 151.6m |
| 15 | 2 | 11M | 90.3u | 1.273m | - | 35.63m |
| 16 | 2 | 10M | 81.8u | 1.367m | - | 37.10m |
| 17 | 3 | 6M | 55.9u | 1.252m | 1.138m | 100.0m |
| 18 | 1 | 15M | 54.6u | - | - | 238.1m |
| 19 | 1 | 20M | 99.7u | - | - | 461.2m |
| 20 | 1 | 16M | 86.3u | - | - | 288.9m |

Long Pulse Radar Test Signal
Test Signal Name: LP_Signal_28
Number of Bursts in Trial: 18

| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
|---|---|---|---|---|---|---|
| 1 | 1 | 19M | 68.3u | - | - | 232.5m |
| 2 | 3 | 16M | 89.5u | 1.856m | 955.5u | 575.9m |
| 3 | 2 | 9M | 90.7u | 1.536m | - | 87.22m |
| 4 | 2 | 13M | 58.6u | 1.812m | - | 602.7m |
| 5 | 2 | 10M | 72.0u | 999.0u | - | 311.2m |
| 6 | 1 | 20M | 83.1u | - | - | 180.7m |
| 7 | 2 | 7M | 58.3u | 1.538m | - | 614.5m |
| 8 | 3 | 8M | 50.0u | 1.112m | 1.809m | 641.2m |
| 9 | 2 | 18M | 58.5u | 1.306m | - | 398.5m |
| 10 | 2 | 17M | 60.6u | 1.263m | - | 42.56m |
| 11 | 3 | 14M | 64.7u | 1.574m | 1.284m | 213.2m |
| 12 | 2 | 9M | 62.7u | 1.162m | - | 216.0m |
| 13 | 2 | 14M | 76.2u | 1.460m | - | 243.7m |
| 14 | 2 | 15M | 54.0u | 1.564m | - | 364.5m |
| 15 | 1 | 6M | 82.2u | - | - | 486.9m |
| 16 | 2 | 18M | 59.0u | 1.329m | - | 385.4m |
| 17 | 3 | 20M | 67.9u | 1.889m | 1.636m | 650.9m |
| 18 | 1 | 12M | 81.2u | - | - | 88.15m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_29<br>Number of Bursts in Trial: 13 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 2 | 17M | 79.0u | 1.143m | - | 16.43m |
| 2 | 3 | 15M | 73.8u | 1.756m | 934.2u | 330.8m |
| 3 | 1 | 13M | 67.3u | - | - | 221.8m |
| 4 | 1 | 14M | 54.1u | - | - | 40.19m |
| 5 | 2 | 6M | 86.9u | 1.762m | - | 567.3m |
| 6 | 2 | 10M | 71.5u | 1.081m | - | 198.7m |
| 7 | 2 | 19M | 92.8u | 1.578m | - | 404.7m |
| 8 | 2 | 18M | 59.0u | 1.374m | - | 648.5m |
| 9 | 1 | 19M | 96.3u | - | - | 745.3m |
| 10 | 2 | 11M | 73.0u | 1.495m | - | 279.3m |
| 11 | 3 | 19M | 60.7u | 1.522m | 1.872m | 293.1m |
| 12 | 2 | 20M | 89.0u | 1.508m | - | 497.5m |
| 13 | 3 | 16M | 57.2u | 1.531m | 1.711m | 490.2m |

| Long Pulse Radar Test Signal<br>Test Signal Name: LP_Signal_30<br>Number of Bursts in Trial: 10 | | | | | | |
|---|---|---|---|---|---|---|
| Burst | Pulses per Burst | Chrip (Hz) | Pulse Width (s) | Pulse 1 to 2 Spacing (s) | Pulse 2 to 3 Spacing (s) | Start Location (s) |
| 1 | 2 | 10M | 94.8u | 1.747m | - | 1.029 |
| 2 | 2 | 8M | 67.1u | 995.9u | - | 1.197 |
| 3 | 1 | 9M | 63.6u | - | - | 509.0m |
| 4 | 2 | 10M | 54.3u | 1.037m | - | 433.0m |
| 5 | 3 | 7M | 77.1u | 1.819m | 1.347m | 358.8m |
| 6 | 2 | 7M | 61.4u | 1.815m | - | 928.4m |
| 7 | 1 | 8M | 86.1u | - | - | 16.80m |
| 8 | 1 | 6M | 90.9u | - | - | 1.098 |
| 9 | 2 | 17M | 98.4u | 1.362m | - | 208.1m |
| 10 | 1 | 10M | 98.7u | - | - | 480.1m |

| 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 | No |
| 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: 96.7 % |

| 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 | No |
| 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: 96.7 % |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.632G | 2 | 5.720G | 3 | 5.320G | 4 | 5.269G |
| 5 | 5.328G | 6 | 5.613G | 7 | 5.573G | 8 | 5.529G |
| 9 | 5.408G | 10 | 5.423G | 11 | 5.417G | 12 | 5.506G |
| 13 | 5.653G | 14 | 5.519G | 15 | 5.407G | 16 | 5.692G |
| 17 | 5.678G | 18 | 5.350G | 19 | 5.719G | 20 | 5.561G |
| 21 | 5.680G | 22 | 5.452G | 23 | 5.431G | 24 | 5.679G |
| 25 | 5.585G | 26 | 5.284G | 27 | 5.650G | 28 | 5.500G |
| 29 | 5.405G | 30 | 5.329G | 31 | 5.577G | 32 | 5.334G |
| 33 | 5.403G | 34 | 5.253G | 35 | 5.513G | 36 | 5.439G |
| 37 | 5.695G | 38 | 5.686G | 39 | 5.563G | 40 | 5.295G |
| 41 | 5.545G | 42 | 5.711G | 43 | 5.558G | 44 | 5.345G |
| 45 | 5.318G | 46 | 5.289G | 47 | 5.449G | 48 | 5.274G |
| 49 | 5.286G | 50 | 5.250G | 51 | 5.607G | 52 | 5.344G |
| 53 | 5.592G | 54 | 5.296G | 55 | 5.565G | 56 | 5.571G |
| 57 | 5.657G | 58 | 5.374G | 59 | 5.297G | 60 | 5.614G |
| 61 | 5.717G | 62 | 5.508G | 63 | 5.641G | 64 | 5.528G |
| 65 | 5.550G | 66 | 5.437G | 67 | 5.598G | 68 | 5.576G |
| 69 | 5.630G | 70 | 5.265G | 71 | 5.621G | 72 | 5.356G |
| 73 | 5.292G | 74 | 5.548G | 75 | 5.501G | 76 | 5.515G |
| 77 | 5.361G | 78 | 5.454G | 79 | 5.582G | 80 | 5.622G |
| 81 | 5.698G | 82 | 5.338G | 83 | 5.701G | 84 | 5.590G |
| 85 | 5.310G | 86 | 5.510G | 87 | 5.547G | 88 | 5.376G |
| 89 | 5.482G | 90 | 5.415G | 91 | 5.531G | 92 | 5.309G |
| 93 | 5.260G | 94 | 5.562G | 95 | 5.490G | 96 | 5.552G |
| 97 | 5.337G | 98 | 5.474G | 99 | 5.615G | 100 | 5.477G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.307G | 2 | 5.718G | 3 | 5.604G | 4 | 5.444G |
| 5 | 5.544G | 6 | 5.437G | 7 | 5.493G | 8 | 5.510G |
| 9 | 5.632G | 10 | 5.343G | 11 | 5.469G | 12 | 5.665G |
| 13 | 5.435G | 14 | 5.429G | 15 | 5.455G | 16 | 5.562G |
| 17 | 5.586G | 18 | 5.440G | 19 | 5.656G | 20 | 5.480G |
| 21 | 5.583G | 22 | 5.584G | 23 | 5.512G | 24 | 5.531G |
| 25 | 5.535G | 26 | 5.517G | 27 | 5.460G | 28 | 5.547G |
| 29 | 5.634G | 30 | 5.340G | 31 | 5.601G | 32 | 5.364G |
| 33 | 5.471G | 34 | 5.613G | 35 | 5.457G | 36 | 5.363G |
| 37 | 5.664G | 38 | 5.335G | 39 | 5.574G | 40 | 5.676G |
| 41 | 5.490G | 42 | 5.251G | 43 | 5.626G | 44 | 5.674G |
| 45 | 5.537G | 46 | 5.611G | 47 | 5.587G | 48 | 5.715G |
| 49 | 5.371G | 50 | 5.594G | 51 | 5.442G | 52 | 5.270G |
| 53 | 5.643G | 54 | 5.477G | 55 | 5.593G | 56 | 5.254G |
| 57 | 5.684G | 58 | 5.651G | 59 | 5.324G | 60 | 5.716G |
| 61 | 5.648G | 62 | 5.288G | 63 | 5.356G | 64 | 5.386G |
| 65 | 5.486G | 66 | 5.275G | 67 | 5.618G | 68 | 5.331G |
| 69 | 5.298G | 70 | 5.319G | 71 | 5.527G | 72 | 5.692G |
| 73 | 5.690G | 74 | 5.381G | 75 | 5.401G | 76 | 5.373G |
| 77 | 5.255G | 78 | 5.539G | 79 | 5.294G | 80 | 5.388G |
| 81 | 5.395G | 82 | 5.252G | 83 | 5.503G | 84 | 5.291G |
| 85 | 5.720G | 86 | 5.550G | 87 | 5.406G | 88 | 5.387G |
| 89 | 5.384G | 90 | 5.500G | 91 | 5.710G | 92 | 5.263G |
| 93 | 5.399G | 94 | 5.538G | 95 | 5.463G | 96 | 5.274G |
| 97 | 5.449G | 98 | 5.305G | 99 | 5.553G | 100 | 5.622G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.574G | 2 | 5.578G | 3 | 5.273G | 4 | 5.623G |
| 5 | 5.546G | 6 | 5.564G | 7 | 5.484G | 8 | 5.508G |
| 9 | 5.482G | 10 | 5.257G | 11 | 5.685G | 12 | 5.255G |
| 13 | 5.645G | 14 | 5.674G | 15 | 5.537G | 16 | 5.436G |
| 17 | 5.320G | 18 | 5.375G | 19 | 5.274G | 20 | 5.613G |
| 21 | 5.428G | 22 | 5.270G | 23 | 5.349G | 24 | 5.500G |
| 25 | 5.301G | 26 | 5.487G | 27 | 5.259G | 28 | 5.715G |
| 29 | 5.473G | 30 | 5.389G | 31 | 5.304G | 32 | 5.676G |
| 33 | 5.424G | 34 | 5.575G | 35 | 5.707G | 36 | 5.551G |
| 37 | 5.256G | 38 | 5.709G | 39 | 5.535G | 40 | 5.450G |
| 41 | 5.339G | 42 | 5.366G | 43 | 5.591G | 44 | 5.688G |
| 45 | 5.466G | 46 | 5.693G | 47 | 5.581G | 48 | 5.364G |
| 49 | 5.571G | 50 | 5.713G | 51 | 5.415G | 52 | 5.590G |
| 53 | 5.527G | 54 | 5.615G | 55 | 5.608G | 56 | 5.474G |
| 57 | 5.356G | 58 | 5.502G | 59 | 5.632G | 60 | 5.694G |
| 61 | 5.469G | 62 | 5.498G | 63 | 5.367G | 64 | 5.282G |
| 65 | 5.285G | 66 | 5.627G | 67 | 5.710G | 68 | 5.391G |
| 69 | 5.567G | 70 | 5.689G | 71 | 5.381G | 72 | 5.507G |
| 73 | 5.661G | 74 | 5.696G | 75 | 5.333G | 76 | 5.289G |
| 77 | 5.458G | 78 | 5.318G | 79 | 5.459G | 80 | 5.309G |
| 81 | 5.657G | 82 | 5.340G | 83 | 5.393G | 84 | 5.705G |
| 85 | 5.425G | 86 | 5.532G | 87 | 5.443G | 88 | 5.597G |
| 89 | 5.702G | 90 | 5.401G | 91 | 5.452G | 92 | 5.598G |
| 93 | 5.501G | 94 | 5.434G | 95 | 5.314G | 96 | 5.384G |
| 97 | 5.563G | 98 | 5.265G | 99 | 5.478G | 100 | 5.523G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.693G | 2 | 5.432G | 3 | 5.673G | 4 | 5.534G |
| 5 | 5.656G | 6 | 5.418G | 7 | 5.444G | 8 | 5.272G |
| 9 | 5.386G | 10 | 5.382G | 11 | 5.393G | 12 | 5.423G |
| 13 | 5.271G | 14 | 5.318G | 15 | 5.562G | 16 | 5.350G |
| 17 | 5.346G | 18 | 5.261G | 19 | 5.375G | 20 | 5.395G |
| 21 | 5.448G | 22 | 5.718G | 23 | 5.361G | 24 | 5.303G |
| 25 | 5.390G | 26 | 5.697G | 27 | 5.559G | 28 | 5.286G |
| 29 | 5.532G | 30 | 5.570G | 31 | 5.389G | 32 | 5.653G |
| 33 | 5.362G | 34 | 5.721G | 35 | 5.537G | 36 | 5.347G |
| 37 | 5.623G | 38 | 5.282G | 39 | 5.327G | 40 | 5.661G |
| 41 | 5.384G | 42 | 5.684G | 43 | 5.615G | 44 | 5.359G |
| 45 | 5.300G | 46 | 5.260G | 47 | 5.421G | 48 | 5.648G |
| 49 | 5.352G | 50 | 5.349G | 51 | 5.510G | 52 | 5.617G |
| 53 | 5.414G | 54 | 5.478G | 55 | 5.525G | 56 | 5.500G |
| 57 | 5.486G | 58 | 5.408G | 59 | 5.465G | 60 | 5.588G |
| 61 | 5.410G | 62 | 5.402G | 63 | 5.341G | 64 | 5.535G |
| 65 | 5.715G | 66 | 5.357G | 67 | 5.574G | 68 | 5.717G |
| 69 | 5.325G | 70 | 5.344G | 71 | 5.677G | 72 | 5.392G |
| 73 | 5.433G | 74 | 5.539G | 75 | 5.572G | 76 | 5.351G |
| 77 | 5.358G | 78 | 5.585G | 79 | 5.651G | 80 | 5.682G |
| 81 | 5.415G | 82 | 5.529G | 83 | 5.322G | 84 | 5.294G |
| 85 | 5.428G | 86 | 5.277G | 87 | 5.396G | 88 | 5.668G |
| 89 | 5.679G | 90 | 5.457G | 91 | 5.671G | 92 | 5.479G |
| 93 | 5.405G | 94 | 5.675G | 95 | 5.368G | 96 | 5.642G |
| 97 | 5.672G | 98 | 5.266G | 99 | 5.462G | 100 | 5.669G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.643G | 2 | 5.262G | 3 | 5.330G | 4 | 5.478G |
| 5 | 5.532G | 6 | 5.382G | 7 | 5.610G | 8 | 5.597G |
| 9 | 5.564G | 10 | 5.710G | 11 | 5.263G | 12 | 5.555G |
| 13 | 5.702G | 14 | 5.704G | 15 | 5.524G | 16 | 5.468G |
| 17 | 5.453G | 18 | 5.580G | 19 | 5.590G | 20 | 5.531G |
| 21 | 5.392G | 22 | 5.663G | 23 | 5.545G | 24 | 5.415G |
| 25 | 5.370G | 26 | 5.625G | 27 | 5.573G | 28 | 5.720G |
| 29 | 5.662G | 30 | 5.592G | 31 | 5.334G | 32 | 5.719G |
| 33 | 5.679G | 34 | 5.368G | 35 | 5.413G | 36 | 5.292G |
| 37 | 5.335G | 38 | 5.593G | 39 | 5.286G | 40 | 5.383G |
| 41 | 5.507G | 42 | 5.618G | 43 | 5.428G | 44 | 5.617G |
| 45 | 5.410G | 46 | 5.696G | 47 | 5.444G | 48 | 5.287G |
| 49 | 5.361G | 50 | 5.366G | 51 | 5.381G | 52 | 5.377G |
| 53 | 5.671G | 54 | 5.666G | 55 | 5.317G | 56 | 5.408G |
| 57 | 5.685G | 58 | 5.310G | 59 | 5.599G | 60 | 5.656G |
| 61 | 5.493G | 62 | 5.676G | 63 | 5.669G | 64 | 5.323G |
| 65 | 5.364G | 66 | 5.433G | 67 | 5.487G | 68 | 5.289G |
| 69 | 5.319G | 70 | 5.380G | 71 | 5.276G | 72 | 5.569G |
| 73 | 5.250G | 74 | 5.570G | 75 | 5.427G | 76 | 5.452G |
| 77 | 5.574G | 78 | 5.303G | 79 | 5.578G | 80 | 5.409G |
| 81 | 5.718G | 82 | 5.552G | 83 | 5.269G | 84 | 5.553G |
| 85 | 5.636G | 86 | 5.398G | 87 | 5.347G | 88 | 5.620G |
| 89 | 5.260G | 90 | 5.448G | 91 | 5.483G | 92 | 5.604G |
| 93 | 5.394G | 94 | 5.535G | 95 | 5.520G | 96 | 5.572G |
| 97 | 5.265G | 98 | 5.337G | 99 | 5.527G | 100 | 5.351G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.571G | 2 | 5.697G | 3 | 5.356G | 4 | 5.309G |
| 5 | 5.445G | 6 | 5.514G | 7 | 5.541G | 8 | 5.539G |
| 9 | 5.400G | 10 | 5.636G | 11 | 5.495G | 12 | 5.687G |
| 13 | 5.715G | 14 | 5.376G | 15 | 5.523G | 16 | 5.664G |
| 17 | 5.551G | 18 | 5.250G | 19 | 5.278G | 20 | 5.476G |
| 21 | 5.684G | 22 | 5.504G | 23 | 5.650G | 24 | 5.277G |
| 25 | 5.594G | 26 | 5.413G | 27 | 5.510G | 28 | 5.610G |
| 29 | 5.531G | 30 | 5.396G | 31 | 5.492G | 32 | 5.662G |
| 33 | 5.467G | 34 | 5.452G | 35 | 5.627G | 36 | 5.686G |
| 37 | 5.380G | 38 | 5.401G | 39 | 5.525G | 40 | 5.286G |
| 41 | 5.465G | 42 | 5.487G | 43 | 5.581G | 44 | 5.624G |
| 45 | 5.263G | 46 | 5.526G | 47 | 5.359G | 48 | 5.397G |
| 49 | 5.291G | 50 | 5.335G | 51 | 5.644G | 52 | 5.385G |
| 53 | 5.357G | 54 | 5.631G | 55 | 5.378G | 56 | 5.411G |
| 57 | 5.490G | 58 | 5.507G | 59 | 5.587G | 60 | 5.577G |
| 61 | 5.406G | 62 | 5.649G | 63 | 5.405G | 64 | 5.281G |
| 65 | 5.546G | 66 | 5.342G | 67 | 5.648G | 68 | 5.417G |
| 69 | 5.473G | 70 | 5.608G | 71 | 5.584G | 72 | 5.527G |
| 73 | 5.443G | 74 | 5.480G | 75 | 5.289G | 76 | 5.317G |
| 77 | 5.616G | 78 | 5.511G | 79 | 5.620G | 80 | 5.550G |
| 81 | 5.612G | 82 | 5.572G | 83 | 5.704G | 84 | 5.457G |
| 85 | 5.712G | 86 | 5.714G | 87 | 5.404G | 88 | 5.613G |
| 89 | 5.451G | 90 | 5.643G | 91 | 5.537G | 92 | 5.638G |
| 93 | 5.440G | 94 | 5.260G | 95 | 5.265G | 96 | 5.626G |
| 97 | 5.298G | 98 | 5.673G | 99 | 5.327G | 100 | 5.483G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.353G | 2 | 5.504G | 3 | 5.659G | 4 | 5.568G |
| 5 | 5.577G | 6 | 5.515G | 7 | 5.346G | 8 | 5.605G |
| 9 | 5.629G | 10 | 5.583G | 11 | 5.685G | 12 | 5.617G |
| 13 | 5.626G | 14 | 5.551G | 15 | 5.361G | 16 | 5.484G |
| 17 | 5.459G | 18 | 5.457G | 19 | 5.646G | 20 | 5.633G |
| 21 | 5.441G | 22 | 5.370G | 23 | 5.600G | 24 | 5.345G |
| 25 | 5.471G | 26 | 5.465G | 27 | 5.509G | 28 | 5.464G |
| 29 | 5.261G | 30 | 5.573G | 31 | 5.718G | 32 | 5.439G |
| 33 | 5.388G | 34 | 5.667G | 35 | 5.486G | 36 | 5.363G |
| 37 | 5.711G | 38 | 5.480G | 39 | 5.525G | 40 | 5.379G |
| 41 | 5.394G | 42 | 5.592G | 43 | 5.662G | 44 | 5.250G |
| 45 | 5.493G | 46 | 5.255G | 47 | 5.258G | 48 | 5.694G |
| 49 | 5.416G | 50 | 5.683G | 51 | 5.679G | 52 | 5.558G |
| 53 | 5.499G | 54 | 5.656G | 55 | 5.609G | 56 | 5.374G |
| 57 | 5.511G | 58 | 5.295G | 59 | 5.586G | 60 | 5.262G |
| 61 | 5.724G | 62 | 5.414G | 63 | 5.675G | 64 | 5.552G |
| 65 | 5.696G | 66 | 5.307G | 67 | 5.628G | 68 | 5.519G |
| 69 | 5.508G | 70 | 5.290G | 71 | 5.403G | 72 | 5.347G |
| 73 | 5.513G | 74 | 5.400G | 75 | 5.327G | 76 | 5.438G |
| 77 | 5.352G | 78 | 5.582G | 79 | 5.318G | 80 | 5.666G |
| 81 | 5.531G | 82 | 5.608G | 83 | 5.477G | 84 | 5.373G |
| 85 | 5.434G | 86 | 5.680G | 87 | 5.485G | 88 | 5.277G |
| 89 | 5.420G | 90 | 5.625G | 91 | 5.342G | 92 | 5.317G |
| 93 | 5.387G | 94 | 5.380G | 95 | 5.293G | 96 | 5.355G |
| 97 | 5.490G | 98 | 5.304G | 99 | 5.460G | 100 | 5.705G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.257G | 2 | 5.338G | 3 | 5.581G | 4 | 5.537G |
| 5 | 5.254G | 6 | 5.460G | 7 | 5.503G | 8 | 5.403G |
| 9 | 5.456G | 10 | 5.325G | 11 | 5.356G | 12 | 5.310G |
| 13 | 5.591G | 14 | 5.632G | 15 | 5.340G | 16 | 5.321G |
| 17 | 5.683G | 18 | 5.721G | 19 | 5.534G | 20 | 5.501G |
| 21 | 5.427G | 22 | 5.529G | 23 | 5.536G | 24 | 5.449G |
| 25 | 5.450G | 26 | 5.401G | 27 | 5.609G | 28 | 5.535G |
| 29 | 5.424G | 30 | 5.568G | 31 | 5.371G | 32 | 5.657G |
| 33 | 5.411G | 34 | 5.384G | 35 | 5.352G | 36 | 5.329G |
| 37 | 5.281G | 38 | 5.681G | 39 | 5.446G | 40 | 5.664G |
| 41 | 5.635G | 42 | 5.278G | 43 | 5.518G | 44 | 5.584G |
| 45 | 5.717G | 46 | 5.413G | 47 | 5.614G | 48 | 5.720G |
| 49 | 5.423G | 50 | 5.685G | 51 | 5.544G | 52 | 5.603G |
| 53 | 5.442G | 54 | 5.303G | 55 | 5.404G | 56 | 5.370G |
| 57 | 5.347G | 58 | 5.637G | 59 | 5.454G | 60 | 5.712G |
| 61 | 5.327G | 62 | 5.348G | 63 | 5.373G | 64 | 5.328G |
| 65 | 5.447G | 66 | 5.344G | 67 | 5.267G | 68 | 5.395G |
| 69 | 5.502G | 70 | 5.426G | 71 | 5.599G | 72 | 5.569G |
| 73 | 5.633G | 74 | 5.579G | 75 | 5.378G | 76 | 5.339G |
| 77 | 5.286G | 78 | 5.587G | 79 | 5.690G | 80 | 5.381G |
| 81 | 5.323G | 82 | 5.696G | 83 | 5.483G | 84 | 5.562G |
| 85 | 5.608G | 86 | 5.498G | 87 | 5.300G | 88 | 5.425G |
| 89 | 5.319G | 90 | 5.702G | 91 | 5.465G | 92 | 5.448G |
| 93 | 5.564G | 94 | 5.571G | 95 | 5.324G | 96 | 5.445G |
| 97 | 5.390G | 98 | 5.463G | 99 | 5.468G | 100 | 5.486G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.708G | 2 | 5.717G | 3 | 5.354G | 4 | 5.468G |
| 5 | 5.631G | 6 | 5.685G | 7 | 5.402G | 8 | 5.419G |
| 9 | 5.489G | 10 | 5.387G | 11 | 5.406G | 12 | 5.555G |
| 13 | 5.574G | 14 | 5.667G | 15 | 5.699G | 16 | 5.591G |
| 17 | 5.345G | 18 | 5.325G | 19 | 5.580G | 20 | 5.475G |
| 21 | 5.430G | 22 | 5.528G | 23 | 5.653G | 24 | 5.337G |
| 25 | 5.693G | 26 | 5.583G | 27 | 5.255G | 28 | 5.703G |
| 29 | 5.289G | 30 | 5.589G | 31 | 5.584G | 32 | 5.616G |
| 33 | 5.534G | 34 | 5.560G | 35 | 5.300G | 36 | 5.637G |
| 37 | 5.539G | 38 | 5.623G | 39 | 5.284G | 40 | 5.409G |
| 41 | 5.621G | 42 | 5.353G | 43 | 5.380G | 44 | 5.612G |
| 45 | 5.311G | 46 | 5.331G | 47 | 5.433G | 48 | 5.575G |
| 49 | 5.463G | 50 | 5.529G | 51 | 5.254G | 52 | 5.551G |
| 53 | 5.611G | 54 | 5.490G | 55 | 5.410G | 56 | 5.320G |
| 57 | 5.377G | 58 | 5.705G | 59 | 5.709G | 60 | 5.376G |
| 61 | 5.547G | 62 | 5.343G | 63 | 5.676G | 64 | 5.403G |
| 65 | 5.625G | 66 | 5.696G | 67 | 5.262G | 68 | 5.683G |
| 69 | 5.473G | 70 | 5.314G | 71 | 5.478G | 72 | 5.600G |
| 73 | 5.372G | 74 | 5.599G | 75 | 5.660G | 76 | 5.566G |
| 77 | 5.634G | 78 | 5.266G | 79 | 5.494G | 80 | 5.457G |
| 81 | 5.257G | 82 | 5.275G | 83 | 5.459G | 84 | 5.334G |
| 85 | 5.613G | 86 | 5.355G | 87 | 5.614G | 88 | 5.395G |
| 89 | 5.399G | 90 | 5.633G | 91 | 5.273G | 92 | 5.279G |
| 93 | 5.342G | 94 | 5.713G | 95 | 5.548G | 96 | 5.638G |
| 97 | 5.706G | 98 | 5.287G | 99 | 5.527G | 100 | 5.437G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.466G | 2 | 5.533G | 3 | 5.259G | 4 | 5.645G |
| 5 | 5.331G | 6 | 5.539G | 7 | 5.640G | 8 | 5.382G |
| 9 | 5.514G | 10 | 5.626G | 11 | 5.387G | 12 | 5.571G |
| 13 | 5.680G | 14 | 5.406G | 15 | 5.302G | 16 | 5.631G |
| 17 | 5.462G | 18 | 5.625G | 19 | 5.701G | 20 | 5.612G |
| 21 | 5.535G | 22 | 5.665G | 23 | 5.338G | 24 | 5.395G |
| 25 | 5.393G | 26 | 5.504G | 27 | 5.608G | 28 | 5.380G |
| 29 | 5.476G | 30 | 5.507G | 31 | 5.696G | 32 | 5.267G |
| 33 | 5.524G | 34 | 5.710G | 35 | 5.258G | 36 | 5.368G |
| 37 | 5.715G | 38 | 5.591G | 39 | 5.478G | 40 | 5.280G |
| 41 | 5.364G | 42 | 5.436G | 43 | 5.691G | 44 | 5.674G |
| 45 | 5.603G | 46 | 5.438G | 47 | 5.723G | 48 | 5.509G |
| 49 | 5.465G | 50 | 5.314G | 51 | 5.563G | 52 | 5.428G |
| 53 | 5.337G | 54 | 5.672G | 55 | 5.339G | 56 | 5.531G |
| 57 | 5.662G | 58 | 5.356G | 59 | 5.434G | 60 | 5.632G |
| 61 | 5.700G | 62 | 5.698G | 63 | 5.605G | 64 | 5.336G |
| 65 | 5.300G | 66 | 5.704G | 67 | 5.682G | 68 | 5.528G |
| 69 | 5.624G | 70 | 5.464G | 71 | 5.523G | 72 | 5.468G |
| 73 | 5.546G | 74 | 5.396G | 75 | 5.713G | 76 | 5.659G |
| 77 | 5.342G | 78 | 5.613G | 79 | 5.633G | 80 | 5.420G |
| 81 | 5.357G | 82 | 5.313G | 83 | 5.620G | 84 | 5.534G |
| 85 | 5.273G | 86 | 5.651G | 87 | 5.536G | 88 | 5.270G |
| 89 | 5.440G | 90 | 5.307G | 91 | 5.568G | 92 | 5.394G |
| 93 | 5.296G | 94 | 5.400G | 95 | 5.328G | 96 | 5.565G |
| 97 | 5.577G | 98 | 5.647G | 99 | 5.491G | 100 | 5.553G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.604G | 2 | 5.562G | 3 | 5.634G | 4 | 5.467G |
| 5 | 5.367G | 6 | 5.416G | 7 | 5.488G | 8 | 5.332G |
| 9 | 5.505G | 10 | 5.626G | 11 | 5.600G | 12 | 5.464G |
| 13 | 5.596G | 14 | 5.359G | 15 | 5.381G | 16 | 5.376G |
| 17 | 5.550G | 18 | 5.514G | 19 | 5.390G | 20 | 5.694G |
| 21 | 5.684G | 22 | 5.415G | 23 | 5.391G | 24 | 5.498G |
| 25 | 5.593G | 26 | 5.311G | 27 | 5.515G | 28 | 5.449G |
| 29 | 5.485G | 30 | 5.579G | 31 | 5.717G | 32 | 5.393G |
| 33 | 5.580G | 34 | 5.257G | 35 | 5.559G | 36 | 5.417G |
| 37 | 5.350G | 38 | 5.544G | 39 | 5.613G | 40 | 5.537G |
| 41 | 5.489G | 42 | 5.614G | 43 | 5.495G | 44 | 5.280G |
| 45 | 5.458G | 46 | 5.287G | 47 | 5.315G | 48 | 5.695G |
| 49 | 5.361G | 50 | 5.690G | 51 | 5.475G | 52 | 5.453G |
| 53 | 5.369G | 54 | 5.609G | 55 | 5.265G | 56 | 5.496G |
| 57 | 5.290G | 58 | 5.333G | 59 | 5.455G | 60 | 5.447G |
| 61 | 5.352G | 62 | 5.668G | 63 | 5.373G | 64 | 5.620G |
| 65 | 5.479G | 66 | 5.653G | 67 | 5.601G | 68 | 5.263G |
| 69 | 5.536G | 70 | 5.712G | 71 | 5.300G | 72 | 5.435G |
| 73 | 5.358G | 74 | 5.293G | 75 | 5.582G | 76 | 5.364G |
| 77 | 5.429G | 78 | 5.291G | 79 | 5.405G | 80 | 5.649G |
| 81 | 5.531G | 82 | 5.585G | 83 | 5.707G | 84 | 5.570G |
| 85 | 5.554G | 86 | 5.521G | 87 | 5.400G | 88 | 5.529G |
| 89 | 5.722G | 90 | 5.492G | 91 | 5.399G | 92 | 5.703G |
| 93 | 5.264G | 94 | 5.328G | 95 | 5.568G | 96 | 5.665G |
| 97 | 5.705G | 98 | 5.396G | 99 | 5.351G | 100 | 5.564G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.584G | 2 | 5.481G | 3 | 5.253G | 4 | 5.427G |
| 5 | 5.581G | 6 | 5.438G | 7 | 5.471G | 8 | 5.542G |
| 9 | 5.411G | 10 | 5.307G | 11 | 5.687G | 12 | 5.386G |
| 13 | 5.442G | 14 | 5.514G | 15 | 5.608G | 16 | 5.684G |
| 17 | 5.382G | 18 | 5.551G | 19 | 5.456G | 20 | 5.576G |
| 21 | 5.540G | 22 | 5.270G | 23 | 5.493G | 24 | 5.368G |
| 25 | 5.526G | 26 | 5.316G | 27 | 5.484G | 28 | 5.627G |
| 29 | 5.252G | 30 | 5.624G | 31 | 5.553G | 32 | 5.483G |
| 33 | 5.353G | 34 | 5.660G | 35 | 5.723G | 36 | 5.463G |
| 37 | 5.317G | 38 | 5.554G | 39 | 5.279G | 40 | 5.437G |
| 41 | 5.352G | 42 | 5.598G | 43 | 5.372G | 44 | 5.404G |
| 45 | 5.341G | 46 | 5.568G | 47 | 5.504G | 48 | 5.370G |
| 49 | 5.588G | 50 | 5.718G | 51 | 5.582G | 52 | 5.546G |
| 53 | 5.505G | 54 | 5.349G | 55 | 5.497G | 56 | 5.266G |
| 57 | 5.412G | 58 | 5.501G | 59 | 5.654G | 60 | 5.335G |
| 61 | 5.586G | 62 | 5.640G | 63 | 5.507G | 64 | 5.661G |
| 65 | 5.337G | 66 | 5.523G | 67 | 5.579G | 68 | 5.482G |
| 69 | 5.717G | 70 | 5.656G | 71 | 5.276G | 72 | 5.315G |
| 73 | 5.664G | 74 | 5.275G | 75 | 5.517G | 76 | 5.673G |
| 77 | 5.441G | 78 | 5.580G | 79 | 5.399G | 80 | 5.596G |
| 81 | 5.489G | 82 | 5.443G | 83 | 5.445G | 84 | 5.692G |
| 85 | 5.308G | 86 | 5.288G | 87 | 5.356G | 88 | 5.686G |
| 89 | 5.287G | 90 | 5.657G | 91 | 5.475G | 92 | 5.705G |
| 93 | 5.689G | 94 | 5.261G | 95 | 5.436G | 96 | 5.281G |
| 97 | 5.548G | 98 | 5.407G | 99 | 5.380G | 100 | 5.519G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.431G | 2 | 5.617G | 3 | 5.509G | 4 | 5.553G |
| 5 | 5.632G | 6 | 5.707G | 7 | 5.350G | 8 | 5.666G |
| 9 | 5.383G | 10 | 5.255G | 11 | 5.306G | 12 | 5.596G |
| 13 | 5.365G | 14 | 5.260G | 15 | 5.394G | 16 | 5.569G |
| 17 | 5.411G | 18 | 5.687G | 19 | 5.269G | 20 | 5.611G |
| 21 | 5.423G | 22 | 5.719G | 23 | 5.445G | 24 | 5.334G |
| 25 | 5.323G | 26 | 5.618G | 27 | 5.512G | 28 | 5.354G |
| 29 | 5.461G | 30 | 5.545G | 31 | 5.507G | 32 | 5.711G |
| 33 | 5.276G | 34 | 5.452G | 35 | 5.704G | 36 | 5.698G |
| 37 | 5.572G | 38 | 5.562G | 39 | 5.372G | 40 | 5.446G |
| 41 | 5.613G | 42 | 5.654G | 43 | 5.434G | 44 | 5.544G |
| 45 | 5.384G | 46 | 5.636G | 47 | 5.425G | 48 | 5.637G |
| 49 | 5.317G | 50 | 5.297G | 51 | 5.442G | 52 | 5.262G |
| 53 | 5.450G | 54 | 5.366G | 55 | 5.459G | 56 | 5.588G |
| 57 | 5.263G | 58 | 5.528G | 59 | 5.441G | 60 | 5.563G |
| 61 | 5.311G | 62 | 5.576G | 63 | 5.706G | 64 | 5.389G |
| 65 | 5.580G | 66 | 5.273G | 67 | 5.375G | 68 | 5.277G |
| 69 | 5.659G | 70 | 5.404G | 71 | 5.275G | 72 | 5.697G |
| 73 | 5.558G | 74 | 5.377G | 75 | 5.352G | 76 | 5.681G |
| 77 | 5.368G | 78 | 5.296G | 79 | 5.633G | 80 | 5.496G |
| 81 | 5.328G | 82 | 5.467G | 83 | 5.486G | 84 | 5.408G |
| 85 | 5.332G | 86 | 5.718G | 87 | 5.357G | 88 | 5.287G |
| 89 | 5.537G | 90 | 5.481G | 91 | 5.571G | 92 | 5.386G |
| 93 | 5.399G | 94 | 5.560G | 95 | 5.499G | 96 | 5.308G |
| 97 | 5.265G | 98 | 5.712G | 99 | 5.527G | 100 | 5.670G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.625G | 2 | 5.312G | 3 | 5.556G | 4 | 5.449G |
| 5 | 5.496G | 6 | 5.669G | 7 | 5.531G | 8 | 5.514G |
| 9 | 5.426G | 10 | 5.315G | 11 | 5.477G | 12 | 5.677G |
| 13 | 5.470G | 14 | 5.422G | 15 | 5.257G | 16 | 5.504G |
| 17 | 5.589G | 18 | 5.349G | 19 | 5.336G | 20 | 5.376G |
| 21 | 5.397G | 22 | 5.585G | 23 | 5.568G | 24 | 5.456G |
| 25 | 5.667G | 26 | 5.465G | 27 | 5.403G | 28 | 5.372G |
| 29 | 5.451G | 30 | 5.506G | 31 | 5.691G | 32 | 5.488G |
| 33 | 5.532G | 34 | 5.646G | 35 | 5.631G | 36 | 5.394G |
| 37 | 5.259G | 38 | 5.694G | 39 | 5.413G | 40 | 5.609G |
| 41 | 5.307G | 42 | 5.490G | 43 | 5.425G | 44 | 5.298G |
| 45 | 5.491G | 46 | 5.341G | 47 | 5.330G | 48 | 5.613G |
| 49 | 5.338G | 50 | 5.526G | 51 | 5.546G | 52 | 5.648G |
| 53 | 5.348G | 54 | 5.371G | 55 | 5.662G | 56 | 5.378G |
| 57 | 5.355G | 58 | 5.533G | 59 | 5.423G | 60 | 5.553G |
| 61 | 5.398G | 62 | 5.713G | 63 | 5.466G | 64 | 5.601G |
| 65 | 5.344G | 66 | 5.472G | 67 | 5.420G | 68 | 5.588G |
| 69 | 5.273G | 70 | 5.703G | 71 | 5.547G | 72 | 5.559G |
| 73 | 5.369G | 74 | 5.695G | 75 | 5.621G | 76 | 5.366G |
| 77 | 5.471G | 78 | 5.464G | 79 | 5.637G | 80 | 5.250G |
| 81 | 5.399G | 82 | 5.453G | 83 | 5.617G | 84 | 5.364G |
| 85 | 5.352G | 86 | 5.651G | 87 | 5.596G | 88 | 5.663G |
| 89 | 5.408G | 90 | 5.541G | 91 | 5.288G | 92 | 5.614G |
| 93 | 5.339G | 94 | 5.458G | 95 | 5.462G | 96 | 5.700G |
| 97 | 5.668G | 98 | 5.253G | 99 | 5.572G | 100 | 5.575G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.699G | 2 | 5.539G | 3 | 5.569G | 4 | 5.356G |
| 5 | 5.588G | 6 | 5.516G | 7 | 5.262G | 8 | 5.414G |
| 9 | 5.451G | 10 | 5.692G | 11 | 5.570G | 12 | 5.279G |
| 13 | 5.329G | 14 | 5.703G | 15 | 5.608G | 16 | 5.270G |
| 17 | 5.541G | 18 | 5.615G | 19 | 5.257G | 20 | 5.705G |
| 21 | 5.504G | 22 | 5.630G | 23 | 5.282G | 24 | 5.643G |
| 25 | 5.623G | 26 | 5.568G | 27 | 5.642G | 28 | 5.457G |
| 29 | 5.581G | 30 | 5.507G | 31 | 5.616G | 32 | 5.465G |
| 33 | 5.715G | 34 | 5.537G | 35 | 5.601G | 36 | 5.694G |
| 37 | 5.367G | 38 | 5.583G | 39 | 5.378G | 40 | 5.403G |
| 41 | 5.310G | 42 | 5.399G | 43 | 5.484G | 44 | 5.401G |
| 45 | 5.548G | 46 | 5.302G | 47 | 5.296G | 48 | 5.321G |
| 49 | 5.666G | 50 | 5.306G | 51 | 5.410G | 52 | 5.530G |
| 53 | 5.708G | 54 | 5.551G | 55 | 5.405G | 56 | 5.576G |
| 57 | 5.428G | 58 | 5.330G | 59 | 5.494G | 60 | 5.556G |
| 61 | 5.721G | 62 | 5.664G | 63 | 5.431G | 64 | 5.680G |
| 65 | 5.555G | 66 | 5.498G | 67 | 5.492G | 68 | 5.686G |
| 69 | 5.603G | 70 | 5.675G | 71 | 5.275G | 72 | 5.479G |
| 73 | 5.252G | 74 | 5.372G | 75 | 5.268G | 76 | 5.466G |
| 77 | 5.266G | 78 | 5.388G | 79 | 5.550G | 80 | 5.350G |
| 81 | 5.491G | 82 | 5.263G | 83 | 5.341G | 84 | 5.693G |
| 85 | 5.289G | 86 | 5.438G | 87 | 5.526G | 88 | 5.597G |
| 89 | 5.522G | 90 | 5.538G | 91 | 5.303G | 92 | 5.575G |
| 93 | 5.717G | 94 | 5.564G | 95 | 5.660G | 96 | 5.524G |
| 97 | 5.677G | 98 | 5.327G | 99 | 5.265G | 100 | 5.398G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.724G | 2 | 5.660G | 3 | 5.652G | 4 | 5.467G |
| 5 | 5.422G | 6 | 5.587G | 7 | 5.713G | 8 | 5.357G |
| 9 | 5.337G | 10 | 5.355G | 11 | 5.502G | 12 | 5.710G |
| 13 | 5.288G | 14 | 5.372G | 15 | 5.395G | 16 | 5.564G |
| 17 | 5.494G | 18 | 5.377G | 19 | 5.309G | 20 | 5.400G |
| 21 | 5.319G | 22 | 5.484G | 23 | 5.623G | 24 | 5.523G |
| 25 | 5.524G | 26 | 5.348G | 27 | 5.590G | 28 | 5.562G |
| 29 | 5.476G | 30 | 5.485G | 31 | 5.629G | 32 | 5.255G |
| 33 | 5.510G | 34 | 5.407G | 35 | 5.569G | 36 | 5.602G |
| 37 | 5.253G | 38 | 5.626G | 39 | 5.696G | 40 | 5.583G |
| 41 | 5.287G | 42 | 5.456G | 43 | 5.642G | 44 | 5.528G |
| 45 | 5.507G | 46 | 5.645G | 47 | 5.714G | 48 | 5.310G |
| 49 | 5.418G | 50 | 5.430G | 51 | 5.618G | 52 | 5.604G |
| 53 | 5.374G | 54 | 5.451G | 55 | 5.546G | 56 | 5.394G |
| 57 | 5.379G | 58 | 5.668G | 59 | 5.682G | 60 | 5.479G |
| 61 | 5.582G | 62 | 5.273G | 63 | 5.535G | 64 | 5.432G |
| 65 | 5.571G | 66 | 5.279G | 67 | 5.511G | 68 | 5.488G |
| 69 | 5.320G | 70 | 5.513G | 71 | 5.308G | 72 | 5.512G |
| 73 | 5.346G | 74 | 5.435G | 75 | 5.700G | 76 | 5.366G |
| 77 | 5.480G | 78 | 5.280G | 79 | 5.671G | 80 | 5.301G |
| 81 | 5.369G | 82 | 5.313G | 83 | 5.336G | 84 | 5.445G |
| 85 | 5.471G | 86 | 5.390G | 87 | 5.674G | 88 | 5.371G |
| 89 | 5.398G | 90 | 5.283G | 91 | 5.373G | 92 | 5.438G |
| 93 | 5.591G | 94 | 5.367G | 95 | 5.646G | 96 | 5.370G |
| 97 | 5.388G | 98 | 5.694G | 99 | 5.716G | 100 | 5.304G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.311G | 2 | 5.263G | 3 | 5.360G | 4 | 5.276G |
| 5 | 5.254G | 6 | 5.667G | 7 | 5.603G | 8 | 5.418G |
| 9 | 5.454G | 10 | 5.493G | 11 | 5.565G | 12 | 5.352G |
| 13 | 5.376G | 14 | 5.584G | 15 | 5.363G | 16 | 5.479G |
| 17 | 5.284G | 18 | 5.397G | 19 | 5.535G | 20 | 5.356G |
| 21 | 5.291G | 22 | 5.589G | 23 | 5.494G | 24 | 5.509G |
| 25 | 5.448G | 26 | 5.283G | 27 | 5.325G | 28 | 5.296G |
| 29 | 5.588G | 30 | 5.643G | 31 | 5.700G | 32 | 5.450G |
| 33 | 5.341G | 34 | 5.592G | 35 | 5.265G | 36 | 5.662G |
| 37 | 5.396G | 38 | 5.557G | 39 | 5.330G | 40 | 5.606G |
| 41 | 5.674G | 42 | 5.331G | 43 | 5.567G | 44 | 5.343G |
| 45 | 5.496G | 46 | 5.632G | 47 | 5.698G | 48 | 5.550G |
| 49 | 5.597G | 50 | 5.349G | 51 | 5.532G | 52 | 5.507G |
| 53 | 5.419G | 54 | 5.721G | 55 | 5.580G | 56 | 5.289G |
| 57 | 5.471G | 58 | 5.503G | 59 | 5.332G | 60 | 5.536G |
| 61 | 5.539G | 62 | 5.481G | 63 | 5.720G | 64 | 5.562G |
| 65 | 5.578G | 66 | 5.681G | 67 | 5.415G | 68 | 5.669G |
| 69 | 5.388G | 70 | 5.252G | 71 | 5.623G | 72 | 5.386G |
| 73 | 5.395G | 74 | 5.627G | 75 | 5.607G | 76 | 5.626G |
| 77 | 5.705G | 78 | 5.262G | 79 | 5.582G | 80 | 5.552G |
| 81 | 5.404G | 82 | 5.531G | 83 | 5.451G | 84 | 5.661G |
| 85 | 5.271G | 86 | 5.577G | 87 | 5.653G | 88 | 5.679G |
| 89 | 5.403G | 90 | 5.321G | 91 | 5.701G | 92 | 5.619G |
| 93 | 5.410G | 94 | 5.660G | 95 | 5.401G | 96 | 5.499G |
| 97 | 5.612G | 98 | 5.677G | 99 | 5.570G | 100 | 5.312G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.534G | 2 | 5.318G | 3 | 5.428G | 4 | 5.659G |
| 5 | 5.714G | 6 | 5.722G | 7 | 5.668G | 8 | 5.483G |
| 9 | 5.278G | 10 | 5.721G | 11 | 5.641G | 12 | 5.605G |
| 13 | 5.644G | 14 | 5.376G | 15 | 5.469G | 16 | 5.637G |
| 17 | 5.584G | 18 | 5.482G | 19 | 5.570G | 20 | 5.653G |
| 21 | 5.622G | 22 | 5.424G | 23 | 5.418G | 24 | 5.487G |
| 25 | 5.532G | 26 | 5.662G | 27 | 5.527G | 28 | 5.711G |
| 29 | 5.261G | 30 | 5.603G | 31 | 5.365G | 32 | 5.512G |
| 33 | 5.687G | 34 | 5.568G | 35 | 5.581G | 36 | 5.411G |
| 37 | 5.542G | 38 | 5.293G | 39 | 5.494G | 40 | 5.327G |
| 41 | 5.260G | 42 | 5.577G | 43 | 5.520G | 44 | 5.435G |
| 45 | 5.614G | 46 | 5.372G | 47 | 5.486G | 48 | 5.416G |
| 49 | 5.375G | 50 | 5.661G | 51 | 5.352G | 52 | 5.384G |
| 53 | 5.688G | 54 | 5.586G | 55 | 5.442G | 56 | 5.636G |
| 57 | 5.452G | 58 | 5.501G | 59 | 5.321G | 60 | 5.621G |
| 61 | 5.303G | 62 | 5.415G | 63 | 5.557G | 64 | 5.273G |
| 65 | 5.434G | 66 | 5.700G | 67 | 5.610G | 68 | 5.538G |
| 69 | 5.470G | 70 | 5.601G | 71 | 5.566G | 72 | 5.382G |
| 73 | 5.348G | 74 | 5.298G | 75 | 5.302G | 76 | 5.305G |
| 77 | 5.429G | 78 | 5.573G | 79 | 5.474G | 80 | 5.587G |
| 81 | 5.268G | 82 | 5.328G | 83 | 5.342G | 84 | 5.620G |
| 85 | 5.696G | 86 | 5.506G | 87 | 5.523G | 88 | 5.645G |
| 89 | 5.681G | 90 | 5.607G | 91 | 5.638G | 92 | 5.275G |
| 93 | 5.333G | 94 | 5.417G | 95 | 5.701G | 96 | 5.316G |
| 97 | 5.578G | 98 | 5.592G | 99 | 5.628G | 100 | 5.598G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.517G | 2 | 5.265G | 3 | 5.504G | 4 | 5.261G |
| 5 | 5.557G | 6 | 5.296G | 7 | 5.412G | 8 | 5.329G |
| 9 | 5.468G | 10 | 5.602G | 11 | 5.278G | 12 | 5.718G |
| 13 | 5.389G | 14 | 5.354G | 15 | 5.357G | 16 | 5.637G |
| 17 | 5.683G | 18 | 5.385G | 19 | 5.255G | 20 | 5.405G |
| 21 | 5.436G | 22 | 5.443G | 23 | 5.700G | 24 | 5.654G |
| 25 | 5.359G | 26 | 5.556G | 27 | 5.455G | 28 | 5.388G |
| 29 | 5.315G | 30 | 5.531G | 31 | 5.694G | 32 | 5.350G |
| 33 | 5.681G | 34 | 5.682G | 35 | 5.613G | 36 | 5.684G |
| 37 | 5.477G | 38 | 5.337G | 39 | 5.280G | 40 | 5.335G |
| 41 | 5.670G | 42 | 5.660G | 43 | 5.254G | 44 | 5.448G |
| 45 | 5.676G | 46 | 5.257G | 47 | 5.314G | 48 | 5.507G |
| 49 | 5.495G | 50 | 5.399G | 51 | 5.710G | 52 | 5.586G |
| 53 | 5.271G | 54 | 5.664G | 55 | 5.639G | 56 | 5.572G |
| 57 | 5.567G | 58 | 5.592G | 59 | 5.361G | 60 | 5.486G |
| 61 | 5.274G | 62 | 5.312G | 63 | 5.605G | 64 | 5.459G |
| 65 | 5.535G | 66 | 5.644G | 67 | 5.253G | 68 | 5.347G |
| 69 | 5.364G | 70 | 5.513G | 71 | 5.597G | 72 | 5.713G |
| 73 | 5.306G | 74 | 5.299G | 75 | 5.410G | 76 | 5.344G |
| 77 | 5.331G | 78 | 5.706G | 79 | 5.534G | 80 | 5.632G |
| 81 | 5.414G | 82 | 5.425G | 83 | 5.456G | 84 | 5.277G |
| 85 | 5.336G | 86 | 5.483G | 87 | 5.693G | 88 | 5.348G |
| 89 | 5.383G | 90 | 5.565G | 91 | 5.685G | 92 | 5.721G |
| 93 | 5.345G | 94 | 5.304G | 95 | 5.638G | 96 | 5.546G |
| 97 | 5.283G | 98 | 5.716G | 99 | 5.544G | 100 | 5.524G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.430G | 2 | 5.529G | 3 | 5.488G | 4 | 5.706G |
| 5 | 5.491G | 6 | 5.615G | 7 | 5.499G | 8 | 5.411G |
| 9 | 5.484G | 10 | 5.601G | 11 | 5.292G | 12 | 5.291G |
| 13 | 5.452G | 14 | 5.554G | 15 | 5.549G | 16 | 5.347G |
| 17 | 5.556G | 18 | 5.300G | 19 | 5.274G | 20 | 5.644G |
| 21 | 5.525G | 22 | 5.544G | 23 | 5.334G | 24 | 5.298G |
| 25 | 5.541G | 26 | 5.356G | 27 | 5.589G | 28 | 5.539G |
| 29 | 5.395G | 30 | 5.440G | 31 | 5.270G | 32 | 5.322G |
| 33 | 5.472G | 34 | 5.639G | 35 | 5.582G | 36 | 5.357G |
| 37 | 5.502G | 38 | 5.494G | 39 | 5.510G | 40 | 5.326G |
| 41 | 5.560G | 42 | 5.559G | 43 | 5.611G | 44 | 5.720G |
| 45 | 5.507G | 46 | 5.457G | 47 | 5.343G | 48 | 5.305G |
| 49 | 5.489G | 50 | 5.361G | 51 | 5.638G | 52 | 5.434G |
| 53 | 5.715G | 54 | 5.668G | 55 | 5.465G | 56 | 5.301G |
| 57 | 5.697G | 58 | 5.678G | 59 | 5.518G | 60 | 5.389G |
| 61 | 5.524G | 62 | 5.605G | 63 | 5.409G | 64 | 5.542G |
| 65 | 5.264G | 66 | 5.406G | 67 | 5.272G | 68 | 5.345G |
| 69 | 5.643G | 70 | 5.251G | 71 | 5.624G | 72 | 5.282G |
| 73 | 5.664G | 74 | 5.286G | 75 | 5.648G | 76 | 5.674G |
| 77 | 5.463G | 78 | 5.327G | 79 | 5.473G | 80 | 5.255G |
| 81 | 5.413G | 82 | 5.267G | 83 | 5.690G | 84 | 5.376G |
| 85 | 5.379G | 86 | 5.469G | 87 | 5.377G | 88 | 5.424G |
| 89 | 5.344G | 90 | 5.390G | 91 | 5.369G | 92 | 5.351G |
| 93 | 5.512G | 94 | 5.573G | 95 | 5.533G | 96 | 5.625G |
| 97 | 5.656G | 98 | 5.287G | 99 | 5.587G | 100 | 5.417G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.626G | 2 | 5.518G | 3 | 5.438G | 4 | 5.433G |
| 5 | 5.572G | 6 | 5.639G | 7 | 5.606G | 8 | 5.612G |
| 9 | 5.708G | 10 | 5.384G | 11 | 5.368G | 12 | 5.308G |
| 13 | 5.553G | 14 | 5.534G | 15 | 5.253G | 16 | 5.363G |
| 17 | 5.640G | 18 | 5.512G | 19 | 5.362G | 20 | 5.637G |
| 21 | 5.521G | 22 | 5.648G | 23 | 5.676G | 24 | 5.511G |
| 25 | 5.624G | 26 | 5.252G | 27 | 5.307G | 28 | 5.526G |
| 29 | 5.705G | 30 | 5.339G | 31 | 5.425G | 32 | 5.316G |
| 33 | 5.497G | 34 | 5.517G | 35 | 5.670G | 36 | 5.610G |
| 37 | 5.327G | 38 | 5.441G | 39 | 5.582G | 40 | 5.567G |
| 41 | 5.323G | 42 | 5.340G | 43 | 5.674G | 44 | 5.529G |
| 45 | 5.335G | 46 | 5.260G | 47 | 5.671G | 48 | 5.409G |
| 49 | 5.601G | 50 | 5.320G | 51 | 5.585G | 52 | 5.297G |
| 53 | 5.668G | 54 | 5.318G | 55 | 5.329G | 56 | 5.574G |
| 57 | 5.296G | 58 | 5.446G | 59 | 5.550G | 60 | 5.430G |
| 61 | 5.499G | 62 | 5.503G | 63 | 5.281G | 64 | 5.341G |
| 65 | 5.633G | 66 | 5.380G | 67 | 5.302G | 68 | 5.620G |
| 69 | 5.267G | 70 | 5.304G | 71 | 5.440G | 72 | 5.476G |
| 73 | 5.388G | 74 | 5.290G | 75 | 5.569G | 76 | 5.649G |
| 77 | 5.695G | 78 | 5.720G | 79 | 5.622G | 80 | 5.391G |
| 81 | 5.473G | 82 | 5.599G | 83 | 5.278G | 84 | 5.555G |
| 85 | 5.276G | 86 | 5.605G | 87 | 5.349G | 88 | 5.284G |
| 89 | 5.538G | 90 | 5.559G | 91 | 5.288G | 92 | 5.522G |
| 93 | 5.614G | 94 | 5.445G | 95 | 5.452G | 96 | 5.645G |
| 97 | 5.390G | 98 | 5.357G | 99 | 5.697G | 100 | 5.691G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.372G | 2 | 5.336G | 3 | 5.381G | 4 | 5.682G |
| 5 | 5.392G | 6 | 5.495G | 7 | 5.669G | 8 | 5.447G |
| 9 | 5.457G | 10 | 5.330G | 11 | 5.275G | 12 | 5.578G |
| 13 | 5.437G | 14 | 5.672G | 15 | 5.509G | 16 | 5.653G |
| 17 | 5.318G | 18 | 5.287G | 19 | 5.365G | 20 | 5.474G |
| 21 | 5.652G | 22 | 5.255G | 23 | 5.356G | 24 | 5.615G |
| 25 | 5.352G | 26 | 5.660G | 27 | 5.466G | 28 | 5.406G |
| 29 | 5.416G | 30 | 5.345G | 31 | 5.616G | 32 | 5.306G |
| 33 | 5.555G | 34 | 5.446G | 35 | 5.329G | 36 | 5.658G |
| 37 | 5.718G | 38 | 5.296G | 39 | 5.644G | 40 | 5.442G |
| 41 | 5.325G | 42 | 5.399G | 43 | 5.534G | 44 | 5.504G |
| 45 | 5.607G | 46 | 5.564G | 47 | 5.301G | 48 | 5.485G |
| 49 | 5.274G | 50 | 5.520G | 51 | 5.347G | 52 | 5.713G |
| 53 | 5.491G | 54 | 5.324G | 55 | 5.526G | 56 | 5.360G |
| 57 | 5.703G | 58 | 5.390G | 59 | 5.591G | 60 | 5.342G |
| 61 | 5.397G | 62 | 5.606G | 63 | 5.461G | 64 | 5.429G |
| 65 | 5.624G | 66 | 5.680G | 67 | 5.684G | 68 | 5.565G |
| 69 | 5.675G | 70 | 5.585G | 71 | 5.716G | 72 | 5.283G |
| 73 | 5.462G | 74 | 5.525G | 75 | 5.253G | 76 | 5.508G |
| 77 | 5.438G | 78 | 5.619G | 79 | 5.349G | 80 | 5.590G |
| 81 | 5.540G | 82 | 5.278G | 83 | 5.455G | 84 | 5.516G |
| 85 | 5.573G | 86 | 5.430G | 87 | 5.511G | 88 | 5.579G |
| 89 | 5.586G | 90 | 5.698G | 91 | 5.427G | 92 | 5.521G |
| 93 | 5.355G | 94 | 5.707G | 95 | 5.405G | 96 | 5.317G |
| 97 | 5.443G | 98 | 5.460G | 99 | 5.326G | 100 | 5.503G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.558G | 2 | 5.257G | 3 | 5.699G | 4 | 5.581G |
| 5 | 5.410G | 6 | 5.613G | 7 | 5.642G | 8 | 5.457G |
| 9 | 5.429G | 10 | 5.289G | 11 | 5.719G | 12 | 5.333G |
| 13 | 5.374G | 14 | 5.721G | 15 | 5.646G | 16 | 5.432G |
| 17 | 5.594G | 18 | 5.337G | 19 | 5.369G | 20 | 5.654G |
| 21 | 5.648G | 22 | 5.370G | 23 | 5.419G | 24 | 5.363G |
| 25 | 5.439G | 26 | 5.367G | 27 | 5.553G | 28 | 5.291G |
| 29 | 5.407G | 30 | 5.259G | 31 | 5.449G | 32 | 5.256G |
| 33 | 5.408G | 34 | 5.708G | 35 | 5.425G | 36 | 5.400G |
| 37 | 5.413G | 38 | 5.392G | 39 | 5.431G | 40 | 5.390G |
| 41 | 5.526G | 42 | 5.351G | 43 | 5.387G | 44 | 5.605G |
| 45 | 5.405G | 46 | 5.557G | 47 | 5.714G | 48 | 5.593G |
| 49 | 5.536G | 50 | 5.676G | 51 | 5.383G | 52 | 5.427G |
| 53 | 5.301G | 54 | 5.477G | 55 | 5.680G | 56 | 5.559G |
| 57 | 5.287G | 58 | 5.318G | 59 | 5.599G | 60 | 5.325G |
| 61 | 5.573G | 62 | 5.685G | 63 | 5.448G | 64 | 5.524G |
| 65 | 5.362G | 66 | 5.357G | 67 | 5.640G | 68 | 5.505G |
| 69 | 5.530G | 70 | 5.600G | 71 | 5.485G | 72 | 5.300G |
| 73 | 5.263G | 74 | 5.504G | 75 | 5.607G | 76 | 5.677G |
| 77 | 5.416G | 78 | 5.603G | 79 | 5.488G | 80 | 5.282G |
| 81 | 5.514G | 82 | 5.422G | 83 | 5.331G | 84 | 5.443G |
| 85 | 5.516G | 86 | 5.545G | 87 | 5.414G | 88 | 5.629G |
| 89 | 5.588G | 90 | 5.606G | 91 | 5.666G | 92 | 5.470G |
| 93 | 5.681G | 94 | 5.391G | 95 | 5.542G | 96 | 5.660G |
| 97 | 5.546G | 98 | 5.715G | 99 | 5.446G | 100 | 5.575G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.438G | 2 | 5.582G | 3 | 5.278G | 4 | 5.533G |
| 5 | 5.364G | 6 | 5.446G | 7 | 5.274G | 8 | 5.428G |
| 9 | 5.609G | 10 | 5.683G | 11 | 5.359G | 12 | 5.381G |
| 13 | 5.419G | 14 | 5.479G | 15 | 5.569G | 16 | 5.430G |
| 17 | 5.724G | 18 | 5.688G | 19 | 5.261G | 20 | 5.385G |
| 21 | 5.578G | 22 | 5.628G | 23 | 5.320G | 24 | 5.442G |
| 25 | 5.351G | 26 | 5.262G | 27 | 5.279G | 28 | 5.347G |
| 29 | 5.493G | 30 | 5.304G | 31 | 5.636G | 32 | 5.650G |
| 33 | 5.302G | 34 | 5.435G | 35 | 5.718G | 36 | 5.499G |
| 37 | 5.342G | 38 | 5.554G | 39 | 5.511G | 40 | 5.382G |
| 41 | 5.596G | 42 | 5.404G | 43 | 5.400G | 44 | 5.556G |
| 45 | 5.375G | 46 | 5.690G | 47 | 5.420G | 48 | 5.410G |
| 49 | 5.294G | 50 | 5.647G | 51 | 5.625G | 52 | 5.346G |
| 53 | 5.703G | 54 | 5.504G | 55 | 5.679G | 56 | 5.469G |
| 57 | 5.250G | 58 | 5.308G | 59 | 5.311G | 60 | 5.555G |
| 61 | 5.538G | 62 | 5.621G | 63 | 5.512G | 64 | 5.543G |
| 65 | 5.544G | 66 | 5.333G | 67 | 5.257G | 68 | 5.682G |
| 69 | 5.444G | 70 | 5.306G | 71 | 5.483G | 72 | 5.672G |
| 73 | 5.510G | 74 | 5.313G | 75 | 5.509G | 76 | 5.720G |
| 77 | 5.260G | 78 | 5.466G | 79 | 5.704G | 80 | 5.477G |
| 81 | 5.365G | 82 | 5.468G | 83 | 5.707G | 84 | 5.563G |
| 85 | 5.584G | 86 | 5.623G | 87 | 5.254G | 88 | 5.519G |
| 89 | 5.604G | 90 | 5.694G | 91 | 5.421G | 92 | 5.283G |
| 93 | 5.583G | 94 | 5.401G | 95 | 5.669G | 96 | 5.301G |
| 97 | 5.329G | 98 | 5.277G | 99 | 5.639G | 100 | 5.440G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.468G | 2 | 5.428G | 3 | 5.538G | 4 | 5.418G |
| 5 | 5.370G | 6 | 5.661G | 7 | 5.636G | 8 | 5.496G |
| 9 | 5.588G | 10 | 5.293G | 11 | 5.471G | 12 | 5.685G |
| 13 | 5.543G | 14 | 5.501G | 15 | 5.556G | 16 | 5.640G |
| 17 | 5.287G | 18 | 5.332G | 19 | 5.487G | 20 | 5.520G |
| 21 | 5.671G | 22 | 5.527G | 23 | 5.711G | 24 | 5.499G |
| 25 | 5.376G | 26 | 5.251G | 27 | 5.652G | 28 | 5.416G |
| 29 | 5.523G | 30 | 5.651G | 31 | 5.692G | 32 | 5.518G |
| 33 | 5.554G | 34 | 5.565G | 35 | 5.583G | 36 | 5.488G |
| 37 | 5.341G | 38 | 5.408G | 39 | 5.595G | 40 | 5.703G |
| 41 | 5.420G | 42 | 5.475G | 43 | 5.270G | 44 | 5.575G |
| 45 | 5.453G | 46 | 5.261G | 47 | 5.305G | 48 | 5.425G |
| 49 | 5.670G | 50 | 5.572G | 51 | 5.689G | 52 | 5.434G |
| 53 | 5.335G | 54 | 5.312G | 55 | 5.723G | 56 | 5.539G |
| 57 | 5.500G | 58 | 5.461G | 59 | 5.433G | 60 | 5.254G |
| 61 | 5.497G | 62 | 5.289G | 63 | 5.655G | 64 | 5.691G |
| 65 | 5.524G | 66 | 5.430G | 67 | 5.441G | 68 | 5.491G |
| 69 | 5.647G | 70 | 5.281G | 71 | 5.384G | 72 | 5.614G |
| 73 | 5.410G | 74 | 5.473G | 75 | 5.458G | 76 | 5.392G |
| 77 | 5.279G | 78 | 5.412G | 79 | 5.506G | 80 | 5.390G |
| 81 | 5.519G | 82 | 5.710G | 83 | 5.507G | 84 | 5.510G |
| 85 | 5.712G | 86 | 5.417G | 87 | 5.659G | 88 | 5.679G |
| 89 | 5.662G | 90 | 5.641G | 91 | 5.258G | 92 | 5.664G |
| 93 | 5.469G | 94 | 5.342G | 95 | 5.460G | 96 | 5.304G |
| 97 | 5.405G | 98 | 5.560G | 99 | 5.351G | 100 | 5.348G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.414G | 2 | 5.410G | 3 | 5.275G | 4 | 5.325G |
| 5 | 5.310G | 6 | 5.573G | 7 | 5.468G | 8 | 5.533G |
| 9 | 5.582G | 10 | 5.606G | 11 | 5.701G | 12 | 5.427G |
| 13 | 5.525G | 14 | 5.524G | 15 | 5.542G | 16 | 5.338G |
| 17 | 5.699G | 18 | 5.482G | 19 | 5.328G | 20 | 5.650G |
| 21 | 5.447G | 22 | 5.598G | 23 | 5.697G | 24 | 5.572G |
| 25 | 5.550G | 26 | 5.521G | 27 | 5.480G | 28 | 5.528G |
| 29 | 5.547G | 30 | 5.620G | 31 | 5.305G | 32 | 5.640G |
| 33 | 5.577G | 34 | 5.602G | 35 | 5.277G | 36 | 5.272G |
| 37 | 5.424G | 38 | 5.586G | 39 | 5.696G | 40 | 5.629G |
| 41 | 5.694G | 42 | 5.357G | 43 | 5.648G | 44 | 5.492G |
| 45 | 5.359G | 46 | 5.674G | 47 | 5.347G | 48 | 5.271G |
| 49 | 5.364G | 50 | 5.583G | 51 | 5.299G | 52 | 5.503G |
| 53 | 5.291G | 54 | 5.722G | 55 | 5.682G | 56 | 5.354G |
| 57 | 5.628G | 58 | 5.627G | 59 | 5.689G | 60 | 5.518G |
| 61 | 5.289G | 62 | 5.270G | 63 | 5.440G | 64 | 5.658G |
| 65 | 5.298G | 66 | 5.478G | 67 | 5.259G | 68 | 5.307G |
| 69 | 5.344G | 70 | 5.348G | 71 | 5.657G | 72 | 5.451G |
| 73 | 5.341G | 74 | 5.276G | 75 | 5.486G | 76 | 5.453G |
| 77 | 5.368G | 78 | 5.349G | 79 | 5.554G | 80 | 5.601G |
| 81 | 5.294G | 82 | 5.680G | 83 | 5.458G | 84 | 5.366G |
| 85 | 5.615G | 86 | 5.581G | 87 | 5.312G | 88 | 5.285G |
| 89 | 5.435G | 90 | 5.382G | 91 | 5.687G | 92 | 5.618G |
| 93 | 5.520G | 94 | 5.498G | 95 | 5.369G | 96 | 5.534G |
| 97 | 5.512G | 98 | 5.487G | 99 | 5.544G | 100 | 5.483G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.716G | 2 | 5.397G | 3 | 5.607G | 4 | 5.474G |
| 5 | 5.601G | 6 | 5.505G | 7 | 5.554G | 8 | 5.602G |
| 9 | 5.414G | 10 | 5.545G | 11 | 5.609G | 12 | 5.691G |
| 13 | 5.625G | 14 | 5.404G | 15 | 5.411G | 16 | 5.384G |
| 17 | 5.431G | 18 | 5.543G | 19 | 5.611G | 20 | 5.518G |
| 21 | 5.612G | 22 | 5.532G | 23 | 5.448G | 24 | 5.557G |
| 25 | 5.677G | 26 | 5.389G | 27 | 5.291G | 28 | 5.267G |
| 29 | 5.564G | 30 | 5.265G | 31 | 5.381G | 32 | 5.683G |
| 33 | 5.278G | 34 | 5.720G | 35 | 5.318G | 36 | 5.457G |
| 37 | 5.269G | 38 | 5.575G | 39 | 5.700G | 40 | 5.357G |
| 41 | 5.438G | 42 | 5.714G | 43 | 5.577G | 44 | 5.718G |
| 45 | 5.303G | 46 | 5.669G | 47 | 5.392G | 48 | 5.565G |
| 49 | 5.537G | 50 | 5.430G | 51 | 5.687G | 52 | 5.263G |
| 53 | 5.503G | 54 | 5.285G | 55 | 5.416G | 56 | 5.536G |
| 57 | 5.699G | 58 | 5.614G | 59 | 5.618G | 60 | 5.391G |
| 61 | 5.329G | 62 | 5.688G | 63 | 5.668G | 64 | 5.262G |
| 65 | 5.662G | 66 | 5.306G | 67 | 5.619G | 68 | 5.711G |
| 69 | 5.439G | 70 | 5.403G | 71 | 5.304G | 72 | 5.454G |
| 73 | 5.453G | 74 | 5.399G | 75 | 5.305G | 76 | 5.258G |
| 77 | 5.400G | 78 | 5.257G | 79 | 5.581G | 80 | 5.710G |
| 81 | 5.562G | 82 | 5.337G | 83 | 5.706G | 84 | 5.479G |
| 85 | 5.412G | 86 | 5.585G | 87 | 5.437G | 88 | 5.275G |
| 89 | 5.634G | 90 | 5.309G | 91 | 5.469G | 92 | 5.374G |
| 93 | 5.482G | 94 | 5.681G | 95 | 5.507G | 96 | 5.432G |
| 97 | 5.346G | 98 | 5.535G | 99 | 5.547G | 100 | 5.398G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.363G | 2 | 5.296G | 3 | 5.292G | 4 | 5.540G |
| 5 | 5.722G | 6 | 5.297G | 7 | 5.630G | 8 | 5.507G |
| 9 | 5.426G | 10 | 5.493G | 11 | 5.375G | 12 | 5.702G |
| 13 | 5.370G | 14 | 5.620G | 15 | 5.287G | 16 | 5.615G |
| 17 | 5.394G | 18 | 5.503G | 19 | 5.430G | 20 | 5.410G |
| 21 | 5.499G | 22 | 5.502G | 23 | 5.453G | 24 | 5.598G |
| 25 | 5.380G | 26 | 5.360G | 27 | 5.379G | 28 | 5.307G |
| 29 | 5.676G | 30 | 5.366G | 31 | 5.562G | 32 | 5.668G |
| 33 | 5.527G | 34 | 5.700G | 35 | 5.521G | 36 | 5.425G |
| 37 | 5.314G | 38 | 5.347G | 39 | 5.680G | 40 | 5.705G |
| 41 | 5.392G | 42 | 5.631G | 43 | 5.665G | 44 | 5.723G |
| 45 | 5.283G | 46 | 5.524G | 47 | 5.661G | 48 | 5.442G |
| 49 | 5.277G | 50 | 5.556G | 51 | 5.690G | 52 | 5.554G |
| 53 | 5.660G | 54 | 5.357G | 55 | 5.628G | 56 | 5.254G |
| 57 | 5.650G | 58 | 5.353G | 59 | 5.654G | 60 | 5.318G |
| 61 | 5.487G | 62 | 5.490G | 63 | 5.474G | 64 | 5.501G |
| 65 | 5.257G | 66 | 5.522G | 67 | 5.417G | 68 | 5.449G |
| 69 | 5.484G | 70 | 5.384G | 71 | 5.278G | 72 | 5.636G |
| 73 | 5.664G | 74 | 5.373G | 75 | 5.638G | 76 | 5.346G |
| 77 | 5.431G | 78 | 5.326G | 79 | 5.473G | 80 | 5.611G |
| 81 | 5.667G | 82 | 5.466G | 83 | 5.311G | 84 | 5.546G |
| 85 | 5.481G | 86 | 5.625G | 87 | 5.327G | 88 | 5.405G |
| 89 | 5.465G | 90 | 5.303G | 91 | 5.510G | 92 | 5.343G |
| 93 | 5.689G | 94 | 5.403G | 95 | 5.285G | 96 | 5.593G |
| 97 | 5.457G | 98 | 5.251G | 99 | 5.463G | 100 | 5.345G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.688G | 2 | 5.645G | 3 | 5.421G | 4 | 5.323G |
| 5 | 5.388G | 6 | 5.676G | 7 | 5.707G | 8 | 5.556G |
| 9 | 5.274G | 10 | 5.438G | 11 | 5.345G | 12 | 5.679G |
| 13 | 5.534G | 14 | 5.527G | 15 | 5.294G | 16 | 5.264G |
| 17 | 5.616G | 18 | 5.485G | 19 | 5.454G | 20 | 5.651G |
| 21 | 5.462G | 22 | 5.511G | 23 | 5.498G | 24 | 5.324G |
| 25 | 5.669G | 26 | 5.458G | 27 | 5.468G | 28 | 5.607G |
| 29 | 5.288G | 30 | 5.342G | 31 | 5.581G | 32 | 5.285G |
| 33 | 5.453G | 34 | 5.447G | 35 | 5.666G | 36 | 5.427G |
| 37 | 5.659G | 38 | 5.522G | 39 | 5.361G | 40 | 5.533G |
| 41 | 5.646G | 42 | 5.428G | 43 | 5.440G | 44 | 5.402G |
| 45 | 5.397G | 46 | 5.366G | 47 | 5.699G | 48 | 5.465G |
| 49 | 5.526G | 50 | 5.603G | 51 | 5.290G | 52 | 5.488G |
| 53 | 5.319G | 54 | 5.307G | 55 | 5.405G | 56 | 5.494G |
| 57 | 5.391G | 58 | 5.456G | 59 | 5.592G | 60 | 5.312G |
| 61 | 5.372G | 62 | 5.547G | 63 | 5.655G | 64 | 5.446G |
| 65 | 5.503G | 66 | 5.484G | 67 | 5.566G | 68 | 5.690G |
| 69 | 5.674G | 70 | 5.614G | 71 | 5.331G | 72 | 5.560G |
| 73 | 5.442G | 74 | 5.628G | 75 | 5.493G | 76 | 5.424G |
| 77 | 5.299G | 78 | 5.615G | 79 | 5.254G | 80 | 5.392G |
| 81 | 5.451G | 82 | 5.348G | 83 | 5.684G | 84 | 5.650G |
| 85 | 5.351G | 86 | 5.430G | 87 | 5.664G | 88 | 5.551G |
| 89 | 5.620G | 90 | 5.593G | 91 | 5.480G | 92 | 5.517G |
| 93 | 5.381G | 94 | 5.377G | 95 | 5.514G | 96 | 5.419G |
| 97 | 5.657G | 98 | 5.344G | 99 | 5.363G | 100 | 5.486G |

| Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) | SEQ# | Frequency (Hz) |
| 1 | 5.684G | 2 | 5.596G | 3 | 5.444G | 4 | 5.667G |
| 5 | 5.648G | 6 | 5.615G | 7 | 5.308G | 8 | 5.410G |
| 9 | 5.507G | 10 | 5.464G | 11 | 5.470G | 12 | 5.713G |
| 13 | 5.549G | 14 | 5.562G | 15 | 5.608G | 16 | 5.614G |
| 17 | 5.458G | 18 | 5.570G | 19 | 5.484G | 20 | 5.478G |
| 21 | 5.258G | 22 | 5.441G | 23 | 5.471G | 24 | 5.524G |
| 25 | 5.571G | 26 | 5.313G | 27 | 5.451G | 28 | 5.580G |
| 29 | 5.339G | 30 | 5.332G | 31 | 5.427G | 32 | 5.423G |
| 33 | 5.386G | 34 | 5.335G | 35 | 5.330G | 36 | 5.599G |
| 37 | 5.383G | 38 | 5.328G | 39 | 5.404G | 40 | 5.387G |
| 41 | 5.284G | 42 | 5.429G | 43 | 5.432G | 44 | 5.574G |
| 45 | 5.326G | 46 | 5.699G | 47 | 5.368G | 48 | 5.302G |
| 49 | 5.593G | 50 | 5.271G | 51 | 5.346G | 52 | 5.286G |
| 53 | 5.360G | 54 | 5.373G | 55 | 5.693G | 56 | 5.590G |
| 57 | 5.314G | 58 | 5.618G | 59 | 5.706G | 60 | 5.616G |
| 61 | 5.371G | 62 | 5.502G | 63 | 5.708G | 64 | 5.347G |
| 65 | 5.319G | 66 | 5.359G | 67 | 5.545G | 68 | 5.551G |
| 69 | 5.447G | 70 | 5.399G | 71 | 5.585G | 72 | 5.287G |
| 73 | 5.709G | 74 | 5.716G | 75 | 5.267G | 76 | 5.356G |
| 77 | 5.695G | 78 | 5.306G | 79 | 5.566G | 80 | 5.282G |
| 81 | 5.337G | 82 | 5.657G | 83 | 5.434G | 84 | 5.520G |
| 85 | 5.361G | 86 | 5.702G | 87 | 5.454G | 88 | 5.493G |
| 89 | 5.652G | 90 | 5.598G | 91 | 5.504G | 92 | 5.547G |
| 93 | 5.380G | 94 | 5.591G | 95 | 5.600G | 96 | 5.293G |
| 97 | 5.565G | 98 | 5.719G | 99 | 5.685G | 100 | 5.296G |