

# DFS MEASUREMENT REPORT

## FCC PART 15 Subpart E

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**FCC ID:** TE7AX90

**APPLICANT:** TP-Link Technologies Co., Ltd.

**Application Type:** Certification

**Product:** AX6600 Tri-Band Wi-Fi 6 Router

**Model No.:** Archer AX90

**Brand Name:** tp-link

**FCC Classification:** Unlicensed National Information Infrastructure (NII)

**FCC Rule Part(s):** Part 15 Subpart E - 15.407 Section (h)(2)  
KDB 905462 D02v02, KDB 905462 D04v01

**Type of Device:** Master Device

**Test Date:** March 30 ~ May 12, 2020

Reviewed By:



( Paddy Chen )

Approved By:



(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 905462 D02v02. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

### Revision History

| Report No.    | Version | Description    | Issue Date | Note  |
|---------------|---------|----------------|------------|-------|
| 2004TW0003-U3 | Rev. 01 | Initial Report | 05-27-2020 | Valid |
|               |         |                |            |       |

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## General Information

|                                |                                                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant:</b>              | TP-Link Technologies Co., Ltd.                                                                                                  |
| <b>Applicant Address:</b>      | Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China       |
| <b>Manufacturer:</b>           | TP-Link Technologies Co., Ltd.                                                                                                  |
| <b>Manufacturer Address:</b>   | Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China       |
| <b>Test Site:</b>              | MRT Technology (Taiwan) Co., Ltd                                                                                                |
| <b>Test Site Address:</b>      | No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)                                                      |
| <b>Test Device Serial No.:</b> | N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering |

## Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Fuxing Rd., Taoyuan, Taiwan ( R.O.C )

- MRT facility is a FCC registered (Designation No. TW3261) test facility with the site description report on file and is designated by the FCC as an Accredited Test Film.
  - MRT facility is an IC registered (MRT Reg. No. 21723-1) test laboratory with the site description on file at Industry Canada.
  - MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (TAF) under the American Association for Laboratory Accreditation Program (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, Taiwan, EU and TELEC Rules.
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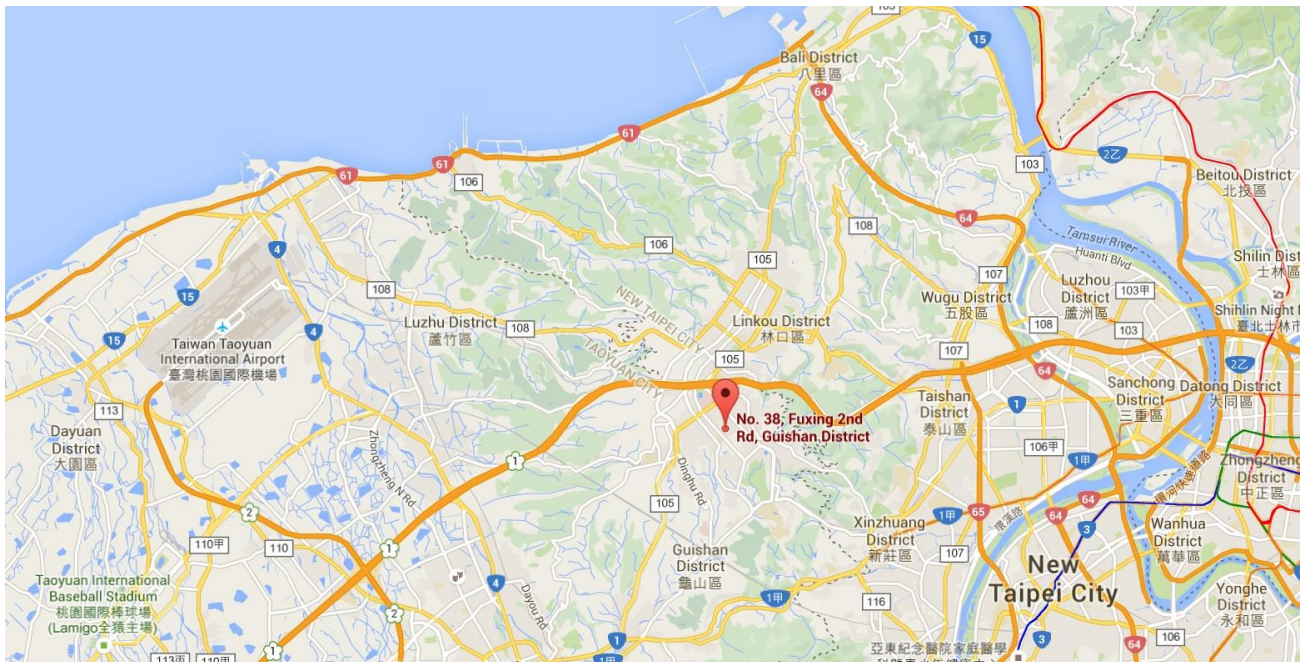
## 1. INTRODUCTION

### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                               | AX6600 Tri-Band Wi-Fi 6 Router                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Model No.:                                  | Archer AX90                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Brand Name:                                 | tp-link                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Wi-Fi Specification:                        | 802.11a/b/g/n/ac/ax                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Frequency Range:                            | <p><b><u>2.4GHz:</u></b></p> <p>For 802.11b/g/n-HT20/ax-HE20: 2412 ~ 2462 MHz</p> <p>For 802.11n-HT40/ax-HE40: 2422 ~ 2452 MHz</p> <p><b><u>5GHz:</u></b></p> <p>For 802.11a/n-HT20/ac-VHT20/ax-HE20:<br/>5180~5240MHz, 5500~5720MHz, 5745~5825MHz</p> <p>For 802.11n-HT40/ac-VHT40/ax-HE40:<br/>5190~5230MHz, 5510~5710MHz, 5755~5795MHz</p> <p>For 802.11ac-VHT80/ax-HE80:<br/>5210MHz, 5530MHz, 5610MHz, 5690MHz, 5775MHz</p> <p>For 802.11ac-VHT160/ax-HE160:<br/>5570MHz</p> |
| Type of Modulation:                         | 802.11b: DSSS, 802.11a/g/n/ac: OFDM, 802.11ax: OFDMA                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TPC mechanism:                              | Support (Details refer to operational description)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Power-on cycle:                             | Requires 93.9 seconds to complete its power-on cycle                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Uniform Spreading (For DFS Frequency Band): | For the 5470-5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.                                                                                                                                                                                                                                                                |

## 2.2. Description of Available Antennas

| Antenna Type     | Frequency Band (MHz) | T <sub>x</sub> Paths | Number of spatial streams | Max Antenna Gain (dBi) | Beam-Forming Directional Gain (dBi) | CDD Directional Gain (dBi) |         |
|------------------|----------------------|----------------------|---------------------------|------------------------|-------------------------------------|----------------------------|---------|
|                  |                      |                      |                           |                        |                                     | For Power                  | For PSD |
| Monopole Antenna | 2412 ~ 2462          | 2                    | 1                         | 3.52                   | 6.53                                | 3.52                       | 6.53    |
|                  | 5150 ~ 5250          | 2                    | 1                         | 3.54                   | 6.55                                | 3.54                       | 6.55    |
|                  | 5470 ~ 5725          | 4                    | 1                         | 3.20                   | 9.22                                | 3.20                       | 9.22    |
|                  |                      | 4                    | 2                         | 3.20                   | --                                  | 3.20                       | 6.21    |
|                  | 5725 ~ 5850          | 4                    | 1                         | 3.20                   | 9.22                                | 3.20                       | 9.22    |

Note:

1. The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

Array Gain =  $10 \log (N_{ANT} / N_{SS})$  dB;

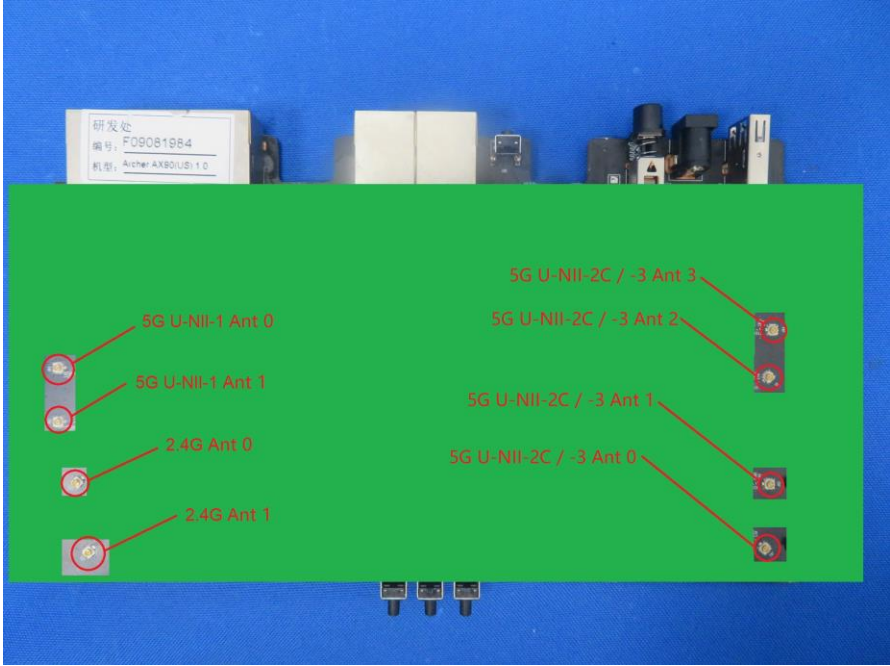
- For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB for  $N_{ANT} \leq 4$ ;

2. The EUT also supports Beam Forming mode, and the Beam Forming support 802.11ac/ax, not include 802.11a/b/g/n. BF Directional gain =  $G_{ANT} + 10 \log (N_{ANT})$ .



### 2.3. Description of Antenna RF Port

| Antenna RF Port                                                                     |                |       |              |       |                 |       |       |       |
|-------------------------------------------------------------------------------------|----------------|-------|--------------|-------|-----------------|-------|-------|-------|
| Software<br>Control Port                                                            | 2.4GHz RF Port |       | 5GHz RF Port |       |                 |       |       |       |
|                                                                                     |                |       | U-NII - 1    |       | U-NII - 2C / -3 |       |       |       |
|                                                                                     | Ant 0          | Ant 1 | Ant 0        | Ant 1 | Ant 0           | Ant 1 | Ant 2 | Ant 3 |
|  |                |       |              |       |                 |       |       |       |

## 2.4. Operating Frequency and Channel List for this Report

802.11a/n-HT20/ac-VHT20/ax-HE20

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 104     | 5520 MHz  | 108     | 5540 MHz  |
| 112     | 5560 MHz  | 116     | 5580 MHz  | 120     | 5600 MHz  |
| 124     | 5620 MHz  | 128     | 5640 MHz  | 132     | 5660 MHz  |
| 136     | 5680 MHz  | 140     | 5700 MHz  | 144     | 5720 MHz  |

802.11n-HT40/ac-VHT40/ax-HE40

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 110     | 5550 MHz  | 118     | 5590 MHz  |
| 126     | 5630 MHz  | 134     | 5670 MHz  | 142     | 5710 MHz  |

802.11ac-VHT80/ax-HE80

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 122     | 5610 MHz  | 138     | 5690 MHz  |

802.11ac-VHT160/ax-HE160

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 114     | 5570 MHz  | --      | --        | --      | --        |

## 2.5. Test Channels for this Report

| Test Mode      | Test Channel | Test Frequency |
|----------------|--------------|----------------|
| 802.11ax-HE20  | 100          | 5500 MHz       |
| 802.11ax-HE40  | 102          | 5510 MHz       |
| 802.11ax-HE80  | 106          | 5530 MHz       |
| 802.11ax-HE160 | 114          | 5570 MHz       |

## 2.6. Test Mode

|           |                                                       |
|-----------|-------------------------------------------------------|
| Test Mode | Make the EUT communicate with notebook at DFS channel |
|-----------|-------------------------------------------------------|

### 3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

#### 3.1. Applicability

The following table from FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

| Requirement                     | Operational Mode |                                |                             |
|---------------------------------|------------------|--------------------------------|-----------------------------|
|                                 | Master           | Client Without Radar Detection | Client With Radar Detection |
| Non-Occupancy Period            | Yes              | Not required                   | Yes                         |
| DFS Detection Threshold         | Yes              | Not required                   | Yes                         |
| Channel Availability Check Time | Yes              | Not required                   | Not required                |
| U-NII Detection Bandwidth       | Yes              | Not required                   | Yes                         |

**Table 3-1: Applicability of DFS Requirements Prior to Use of a Channel**

| Requirement                       | Operational Mode                             |                                |
|-----------------------------------|----------------------------------------------|--------------------------------|
|                                   | Master Device or Client With Radar Detection | Client Without Radar Detection |
| DFS Detection Threshold           | Yes                                          | Not required                   |
| Channel Closing Transmission Time | Yes                                          | Yes                            |
| Channel Move Time                 | Yes                                          | Yes                            |
| U-NII Detection Bandwidth         | Yes                                          | Not required                   |

| Additional requirements for devices with multiple bandwidth modes                                                                                                                                                                                                                                                                     | Master Device or Client with Radar Detection | Client Without Radar Detection                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| U-NII Detection Bandwidth and Statistical Performance Check                                                                                                                                                                                                                                                                           | All BW modes must be tested                  | Not required                                         |
| Channel Move Time and Channel Closing Transmission Time                                                                                                                                                                                                                                                                               | Test using widest BW mode available          | Test using the widest BW mode available for the link |
| All other tests                                                                                                                                                                                                                                                                                                                       | Any single BW mode                           | Not required                                         |
| Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency. |                                              |                                                      |

**Table 3-2: Applicability of DFS Requirements during normal operation**

### 3.2. DFS Devices Requirements

**Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 the following are the requirements for Master Devices:**

- (a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands. DFS is not required in the 5150 ~ 5250 MHz or 5725 ~ 5825 MHz bands.
- (b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- (c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- (d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- (e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- (f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.
- (g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

**Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.**

| Parameter                                                                                                                                                                      | Value                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Non-occupancy period                                                                                                                                                           | Minimum 30 minutes                                                                                        |
| Channel Availability Check Time                                                                                                                                                | 60 seconds                                                                                                |
| Channel Move Time                                                                                                                                                              | 10 seconds<br>See Note 1.                                                                                 |
| Channel Closing Transmission Time                                                                                                                                              | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth                                                                                                                                                      | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   |
| Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. |                                                                                                           |

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

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

**Table 3-3: DFS Response Requirements**

### 3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Value<br>(See Notes 1, 2, and 3) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -64 dBm                          |
| EIRP < 200 milliwatt and<br>power spectral density < 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the power<br>spectral density requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -64 dBm                          |
| <p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                                  |

**Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection**

### 3.4. Parameters of DFS Test Signals

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. 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.

#### Short Pulse Radar Test Waveforms

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

**Table 3-5: Parameters for Short Pulse Radar Waveforms**

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

| Pulse Repetition Frequency<br>Number | Pulse Repetition Frequency<br>(Pulses Per Second) | Pulse Repetition Interval<br>(Microseconds) |
|--------------------------------------|---------------------------------------------------|---------------------------------------------|
| 1                                    | 1930.5                                            | 518                                         |
| 2                                    | 1858.7                                            | 538                                         |
| 3                                    | 1792.1                                            | 558                                         |
| 4                                    | 1730.1                                            | 578                                         |
| 5                                    | 1672.2                                            | 598                                         |
| 6                                    | 1618.1                                            | 618                                         |
| 7                                    | 1567.4                                            | 638                                         |
| 8                                    | 1519.8                                            | 658                                         |
| 9                                    | 1474.9                                            | 678                                         |
| 10                                   | 1432.7                                            | 698                                         |
| 11                                   | 1392.8                                            | 718                                         |
| 12                                   | 1355                                              | 738                                         |
| 13                                   | 1319.3                                            | 758                                         |
| 14                                   | 1285.3                                            | 778                                         |
| 15                                   | 1253.1                                            | 798                                         |
| 16                                   | 1222.5                                            | 818                                         |
| 17                                   | 1193.3                                            | 838                                         |
| 18                                   | 1165.6                                            | 858                                         |
| 19                                   | 1139                                              | 878                                         |
| 20                                   | 1113.6                                            | 898                                         |
| 21                                   | 1089.3                                            | 918                                         |
| 22                                   | 1066.1                                            | 938                                         |
| 23                                   | 326.2                                             | 3066                                        |

**Table 3-6: Pulse Repetition Intervals Values for Test A**

#### 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 3-7: Parameters for Long Pulse Radar Waveforms**

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

#### 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                       |

**Table 3-8: Parameters for Frequency Hopping Radar Waveforms**

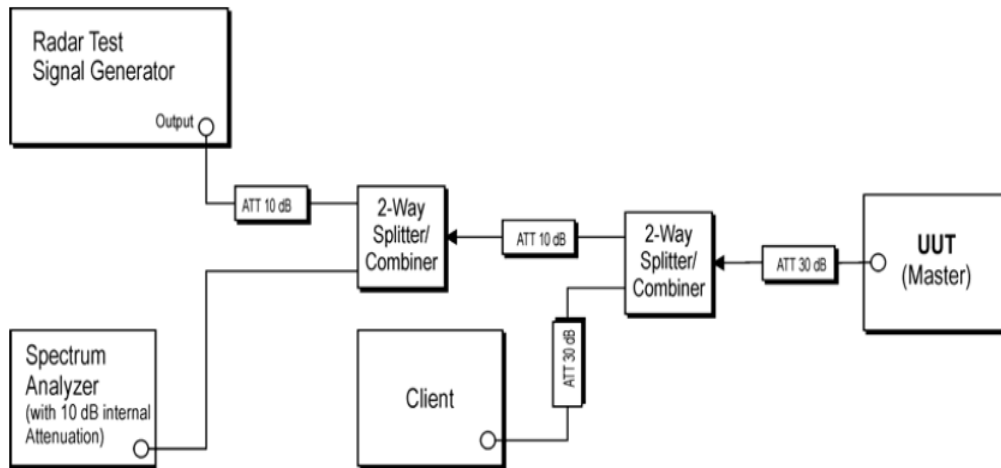
For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

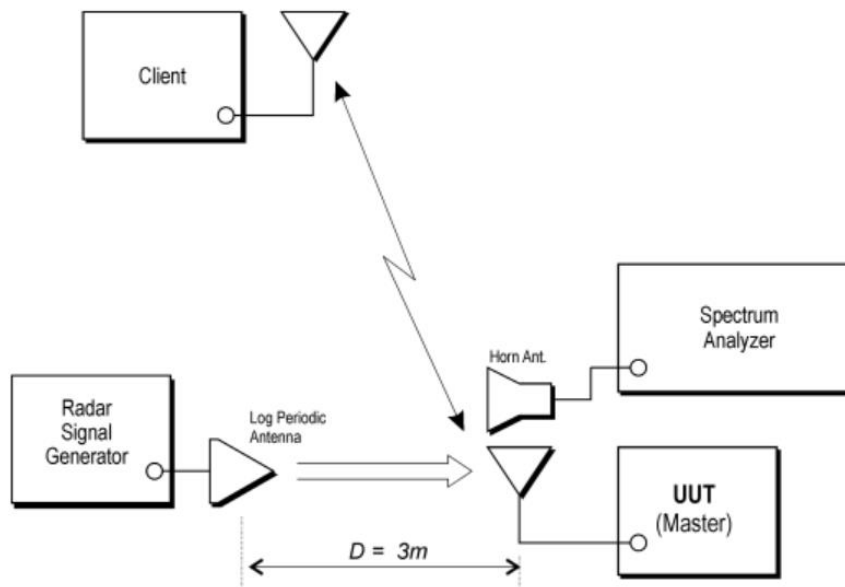


### 3.5. Conducted Test Setup

The FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.



**Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters**



**Figure 3-2: Radiated Test Setup where UUT is a Master and Radar Test Waveforms are injected into the UUT**

#### 4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection (DFS)

| Instrument              | Manufacturer | Type No.       | Asset No.   | Cali. Interval | Cali. Due Date |
|-------------------------|--------------|----------------|-------------|----------------|----------------|
| EXA Signal Analyzer     | KEYSIGHT     | N9010A         | MRTTWA00012 | 1 year         | 2020/10/02     |
| EXA Signal Analyzer     | KEYSIGHT     | N9010B         | MRTTWA00074 | 1 year         | 2020/07/11     |
| Vector Signal Generator | Keysight     | N5182B         | MRTTWA00010 | 1 year         | 2021/04/24     |
| Combiner                | WOKEN        | 0120A04208001S | MRTTWE00008 | 1 year         | 2021/06/18     |

Client Information

| Instrument   | Manufacturer                   | Type No.      |
|--------------|--------------------------------|---------------|
| Access Point | TP-Link Technologies Co., Ltd. | Archer AX6000 |

Note: The Access Point was configured as client device by the manufacturer.

| Software               | Version | Manufacturer | Function                         |
|------------------------|---------|--------------|----------------------------------|
| Pulse Building(N7607B) | V3.0.0  | Keysight     | Radar Signal Generation Software |
| DFS Tool               | V6.7    | Keysight     | DFS Test Software                |

## 5. TEST RESULT

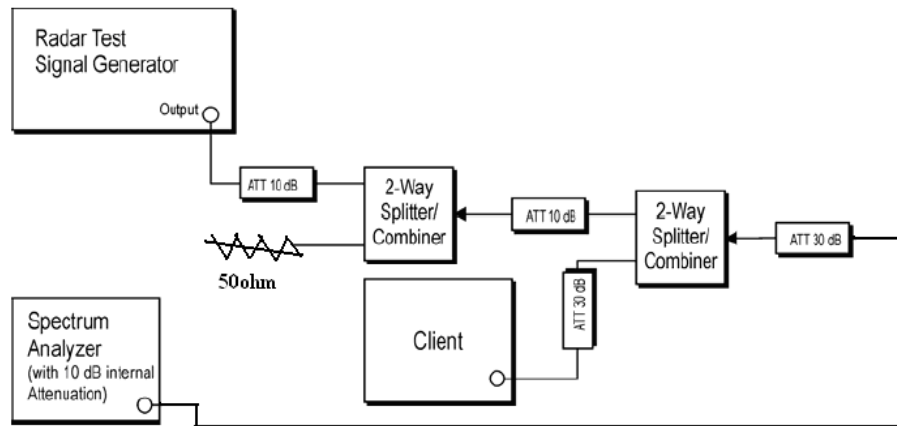
### 5.1. Summary

| Parameter                                                                      | Limit           | Test Result | Reference   |
|--------------------------------------------------------------------------------|-----------------|-------------|-------------|
| UNII Detection Bandwidth Measurement                                           | Refer Table 3-3 | Pass        | Section 5.4 |
| Initial Channel Availability Check Time                                        | Refer Table 3-3 | Pass        | Section 5.5 |
| Radar Burst at the Beginning of the Channel Availability Check Time            | Refer Table 3-3 | Pass        | Section 5.6 |
| Radar Burst at the End of the Channel Availability Check Time                  | Refer Table 3-3 | Pass        | Section 5.7 |
| In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time | Refer Table 3-3 | Pass        | Section 5.8 |
| Non-Occupancy Period                                                           | Refer Table 3-3 | Pass        | Section 5.8 |
| Statistical Performance Check                                                  | Refer Table 3-3 | Pass        | Section 5.9 |

## 5.2. Radar Waveform Calibration

### 5.2.1. Calibration Setup

The conducted test setup was used for this calibration testing. Figure 3-2 shows the typical test setup.



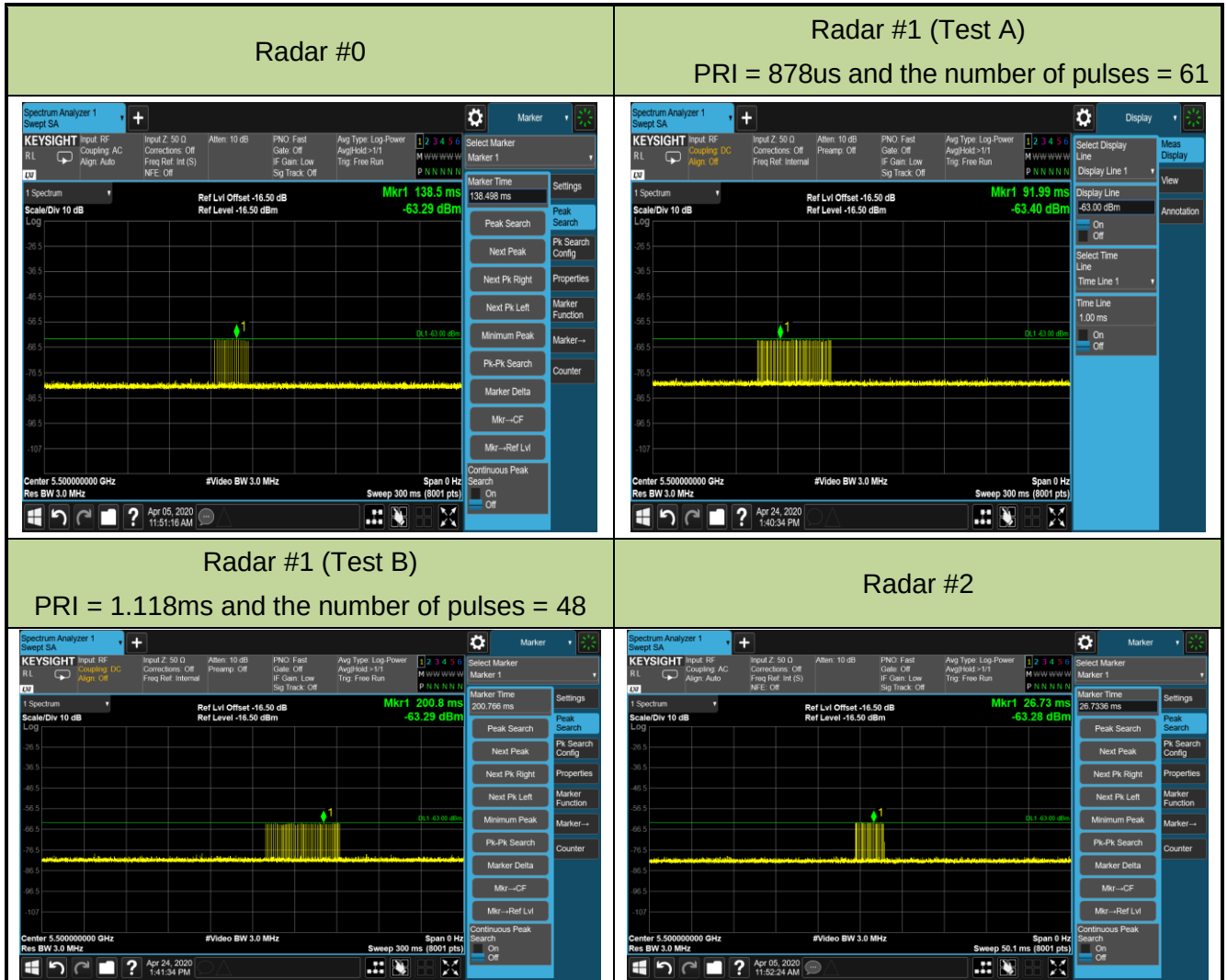
**Figure 3-2: Conducted Test Setup**

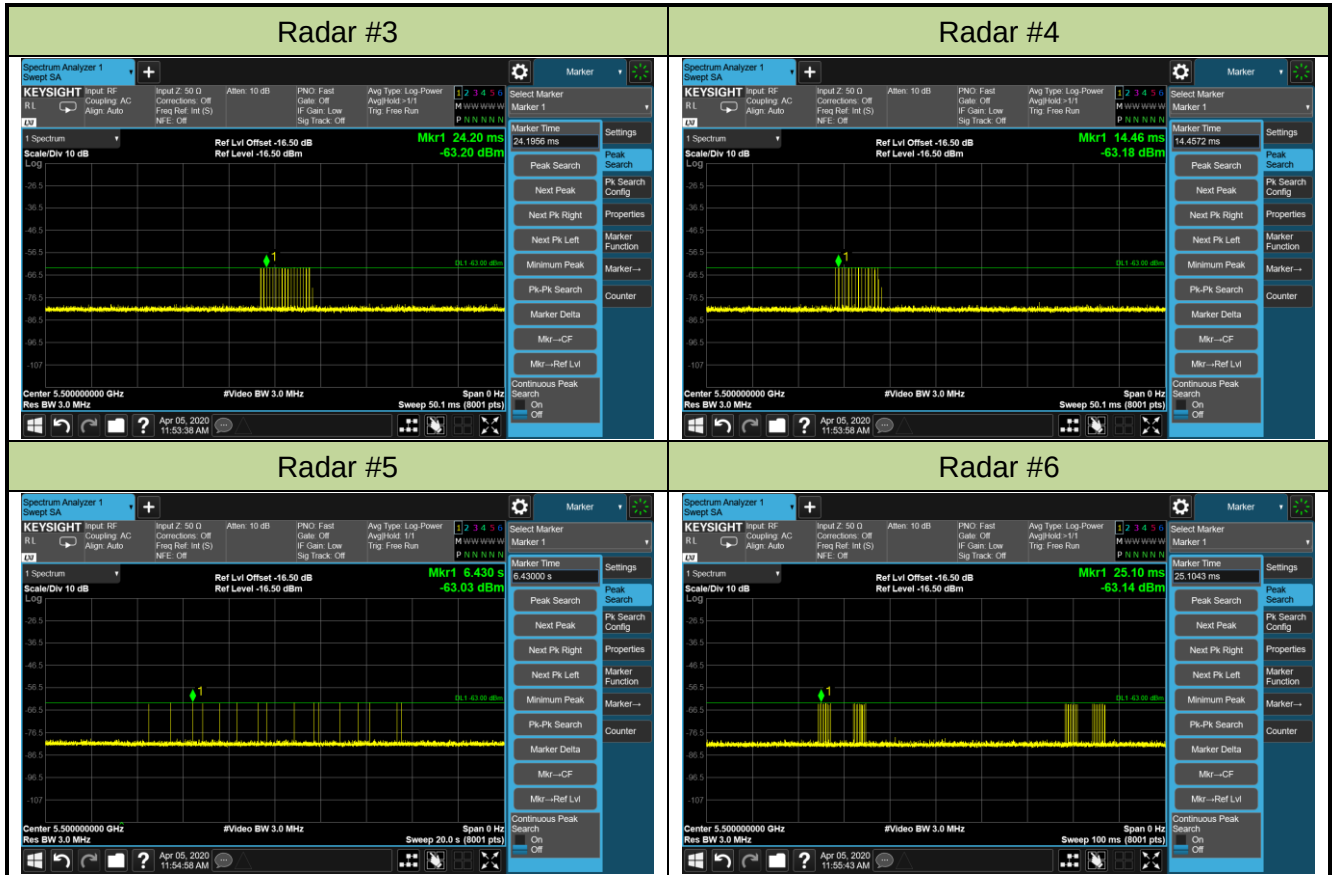
### 5.2.2. Calibration Procedure

The Interference Radar Detection Threshold Level is  $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$  that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

### 5.2.3. Cablibration Result

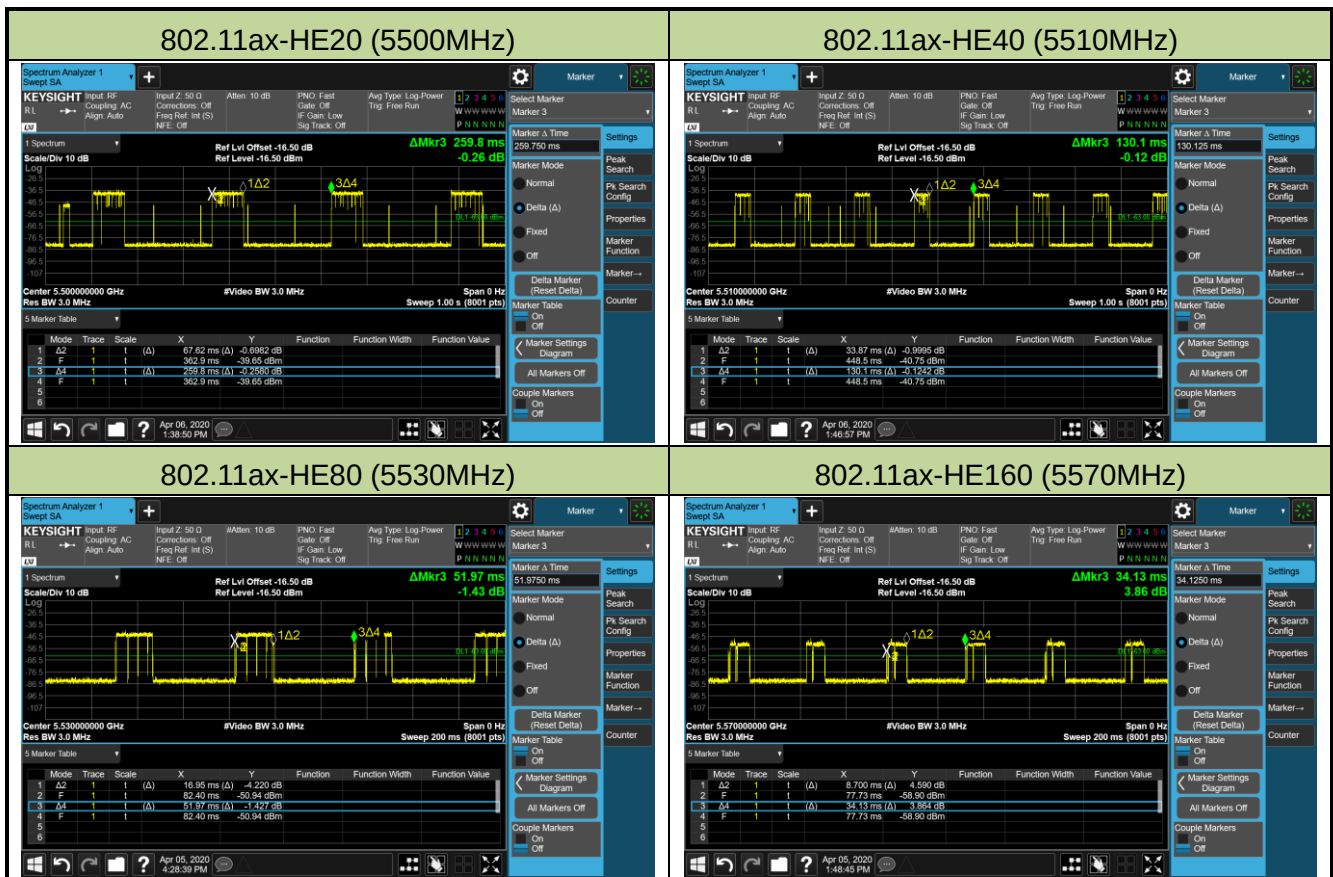
|               |                                |                   |                           |
|---------------|--------------------------------|-------------------|---------------------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router | Temperature       | 27°C                      |
| Test Engineer | Kevin Ker                      | Relative Humidity | 65%                       |
| Test Site     | AC1                            | Test Date         | 2020/04/05~<br>2020/04/24 |
| Test Item     | Radar Waveform Calibration     |                   |                           |





### 5.2.4. Channel Loading Test Result

|               |                                |                   |            |
|---------------|--------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                      | Relative Humidity | 65%        |
| Test Site     | AC1                            | Test Date         | 2020/04/06 |
| Test Item     | Channel Loading                |                   |            |



| Test Mode      | Test Frequency | Packet ratio | Requirement ratio | Test Result |
|----------------|----------------|--------------|-------------------|-------------|
| 802.11ax-HE20  | 5500 MHz       | 26.03%       | ≥ 17%             | Pass        |
| 802.11ax-HE40  | 5510 MHz       | 26.05%       | ≥ 17%             | Pass        |
| 802.11ax-HE80  | 5530 MHz       | 32.61%       | ≥ 17%             | Pass        |
| 802.11ax-HE160 | 5570 MHz       | 25.49%       | ≥ 17%             | Pass        |

Note: System testing was performed with the designated iperf test file. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Packet ratio = Time On / (Time On + Off Time).

### 5.3. UNII Detection Bandwidth Measurement

#### 5.3.1. Test Limit

Minimum 100% of the UNII 99% transmission power bandwidth. During the U-NII Detection Bandwidth detection test, each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

#### 5.3.2. Test Procedure

1. Adjust the equipment to produce a single Burst of any one of the Short Pulse Radar Types 0-4 in Table 3-5 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.
2. The generating equipment is configured as shown in the Conducted Test Setup above section 3.5.
3. The EUT is set up as a stand-alone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
4. Generate a single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion shown in Table 3-5. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.
5. Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 3-3. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.
6. Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 1 MHz steps, repeating the above item 4 test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
7. The U-NII Detection Bandwidth is calculated as follows:  $\text{U-NII Detection Bandwidth} = \text{FH} - \text{FL}$
8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements.



### 5.3.3. Test Result

|               |                                                    |                   |            |
|---------------|----------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                     | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                          | Relative Humidity | 65%        |
| Test Site     | AC1                                                | Test Date         | 2020/04/07 |
| Test Item     | Detection Bandwidth (802.11ax-HE20 mode - 5500MHz) |                   |            |

| Radar Frequency<br>(MHz) | DFS Detection Trials (1=Detection, 0= No Detection) |   |   |   |   |   |   |   |   |    | Detection Rate (%) |
|--------------------------|-----------------------------------------------------|---|---|---|---|---|---|---|---|----|--------------------|
|                          | 1                                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                    |
| 5490                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |
| 5490.4 FL                | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5491                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5492                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5493                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5494                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5495                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5500                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5505                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5506                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5507                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5508                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5509                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5509.6 FH                | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5510                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5500MHz. The 99% channel bandwidth is 19.04MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5509.6MHz – 5490.4MHz = 19.2MHz

Note 3: NII Detection Bandwidth Min. Limit (MHz): 19.04MHz x 100% = 19.04MHz.

|               |                                                    |                   |            |
|---------------|----------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                     | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                          | Relative Humidity | 65%        |
| Test Site     | AC1                                                | Test Date         | 2020/04/07 |
| Test Item     | Detection Bandwidth (802.11ax-HE40 mode – 5510MHz) |                   |            |

| Radar Frequency<br>(MHz) | DFS Detection Trials (1=Detection, 0= No Detection) |   |   |   |   |   |   |   |   |    | Detection Rate (%) |
|--------------------------|-----------------------------------------------------|---|---|---|---|---|---|---|---|----|--------------------|
|                          | 1                                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                    |
| 5490                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |
| 5491FL                   | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5492                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5493                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5494                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5495                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5500                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5505                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5510                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5515                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5520                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5525                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5526                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5527                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5528                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5529 FH                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5530                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5510MHz. The 99% channel bandwidth is 37.47MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5529MHz - 5491MHz = 38MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 37.47MHz x 100% = 37.47MHz.

|               |                                                    |                   |            |
|---------------|----------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                     | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                          | Relative Humidity | 65%        |
| Test Site     | AC1                                                | Test Date         | 2020/04/07 |
| Test Item     | Detection Bandwidth (802.11ax-HE80 mode – 5530MHz) |                   |            |

| Radar Frequency<br>(MHz) | DFS Detection Trials (1=Detection, 0= No Detection) |   |   |   |   |   |   |   |   |    | Detection Rate (%) |
|--------------------------|-----------------------------------------------------|---|---|---|---|---|---|---|---|----|--------------------|
|                          | 1                                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                    |
| 5490                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |
| 5491 FL                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5492                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5493                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5494                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5495                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5500                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5505                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5510                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5515                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5520                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5525                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5530                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5535                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5540                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5545                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5550                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5555                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5560                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5565                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5566                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5567                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5569 FH                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5570                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5530MHz. The 99% channel bandwidth is 77.06MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5569MHz - 5491MHz = 78MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 77.06MHz x 100% = 77.06MHz.

|               |                                                     |                   |            |
|---------------|-----------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                      | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                           | Relative Humidity | 65%        |
| Test Site     | AC1                                                 | Test Date         | 2020/04/07 |
| Test Item     | Detection Bandwidth (802.11ax-HE160 mode – 5570MHz) |                   |            |

| Radar Frequency<br>(MHz) | DFS Detection Trials (1=Detection, 0= No Detection) |   |   |   |   |   |   |   |   |    | Detection Rate (%) |
|--------------------------|-----------------------------------------------------|---|---|---|---|---|---|---|---|----|--------------------|
|                          | 1                                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                    |
| 5490                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |
| 5491 FL                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5492                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5493                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5494                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5495                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5500                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5505                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5510                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5515                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5520                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5525                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5530                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5535                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5540                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5545                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5550                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5555                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5560                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5565                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5570                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5575                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5580                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5585                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5590                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5595                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5600                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5600                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5610                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5615                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |

|         |   |   |   |   |   |   |   |   |   |   |      |
|---------|---|---|---|---|---|---|---|---|---|---|------|
| 5620    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5625    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5630    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5635    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5640    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5645    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5646    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5647    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5648    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5649 FH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5650    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0%   |

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5570MHz. The 99% channel bandwidth is 154.69MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5649MHz - 5491MHz = 158MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 154.69MHz x 100% = 154.69MHz.

## **5.4. Initial Channel Availability Check Time Measurement**

### **5.4.1. Test Limit**

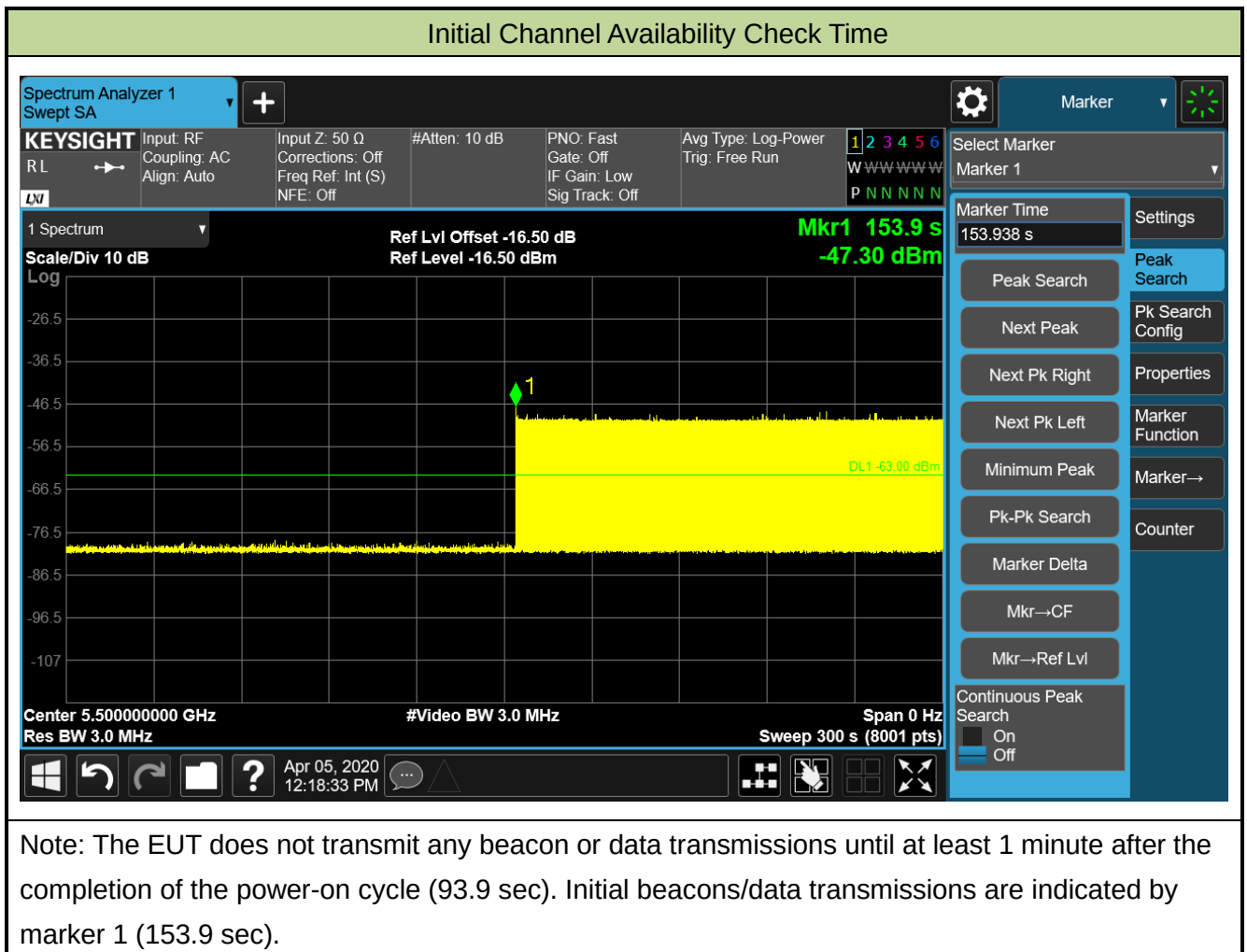
The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute on the intended operating frequency.

### **5.4.2. Test Procedure**

1. The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
2. The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.
3. Confirm that the EUT initiates transmission on the channel. Measurement system showing its nominal noise floor is marker1.

### 5.4.3. Test Result

|               |                                                                        |                   |            |
|---------------|------------------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                         | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                              | Relative Humidity | 65%        |
| Test Site     | AC1                                                                    | Test Date         | 2020/04/05 |
| Test Item     | Initial Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz) |                   |            |



## **5.5. Radar Burst at the Beginning of the Channel Availability Check Time Measurement**

### **5.5.1. Test Limit**

In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

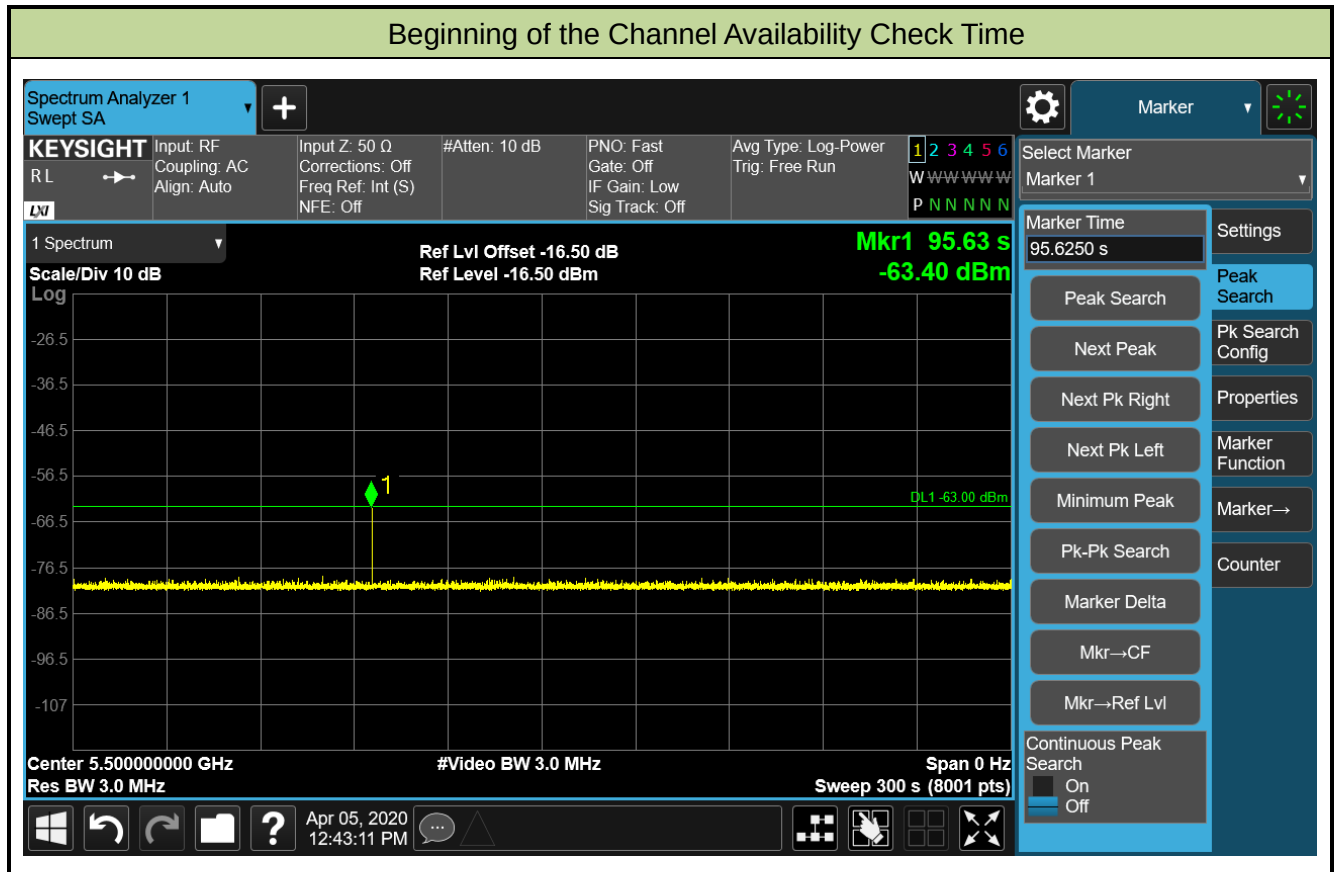
### **5.5.2. Test Procedure**

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
2. The EUT is in completion power-up cycle (from T0 to T1). T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred.



### 5.5.3. Test Result

|               |                                                                                 |                   |            |
|---------------|---------------------------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                                  | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                                       | Relative Humidity | 65%        |
| Test Site     | AC1                                                                             | Test Date         | 2020/04/05 |
| Test Item     | Beginning of the Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz) |                   |            |



## **5.6. Radar Burst at the End of the Channel Availability Check Time Measurement**

### **5.6.1. Test Limit**

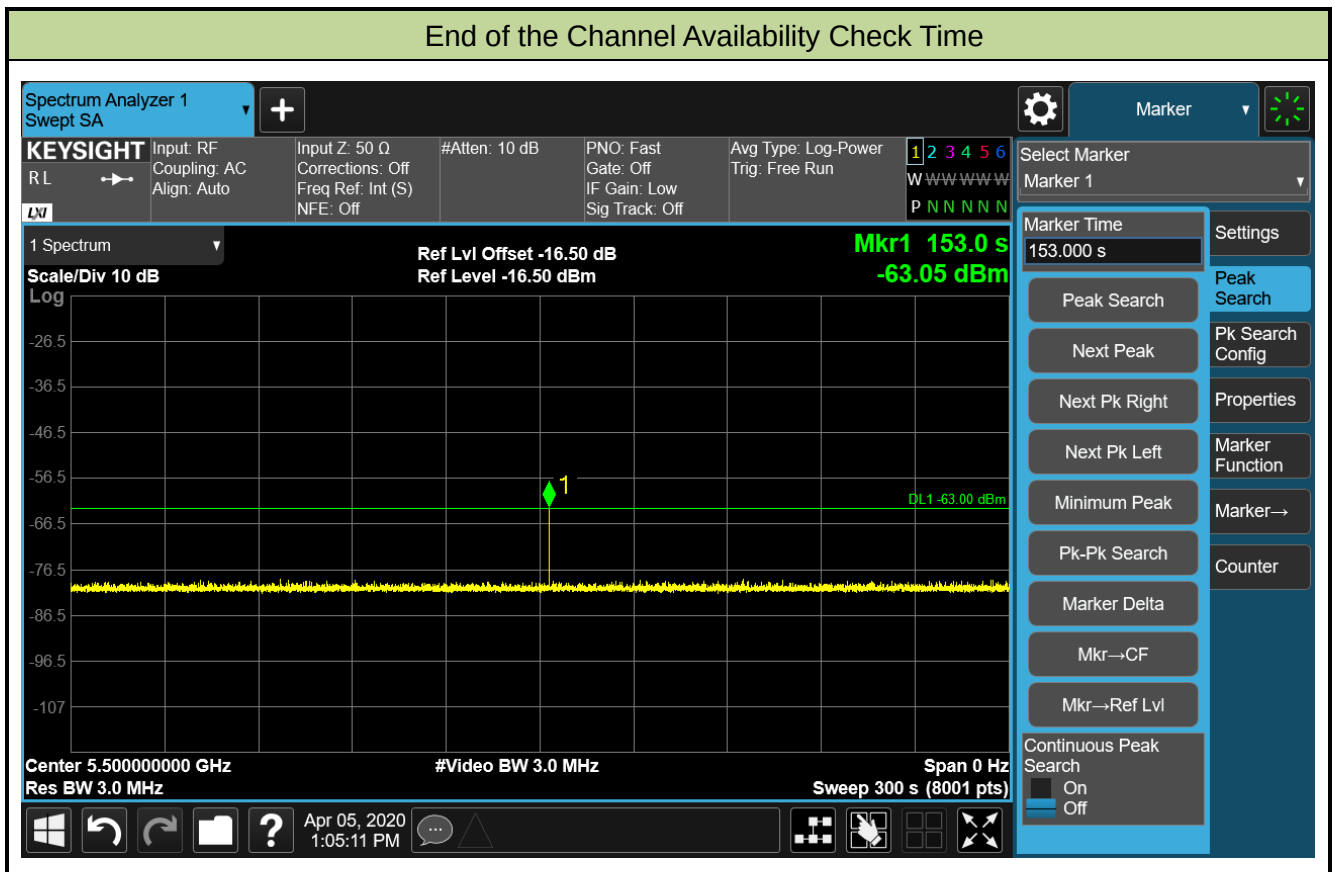
In the end of Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

### **5.6.2. Test Procedure**

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than  $T1 + 60$  seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at  $T1 + 54$  seconds.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred.

### 5.6.3. Test Result

|               |                                                                           |                   |            |
|---------------|---------------------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                            | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                                 | Relative Humidity | 65%        |
| Test Site     | AC1                                                                       | Test Date         | 2020/04/05 |
| Test Item     | End of the Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz) |                   |            |



## **5.7. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement**

### **5.7.1. Test Limit**

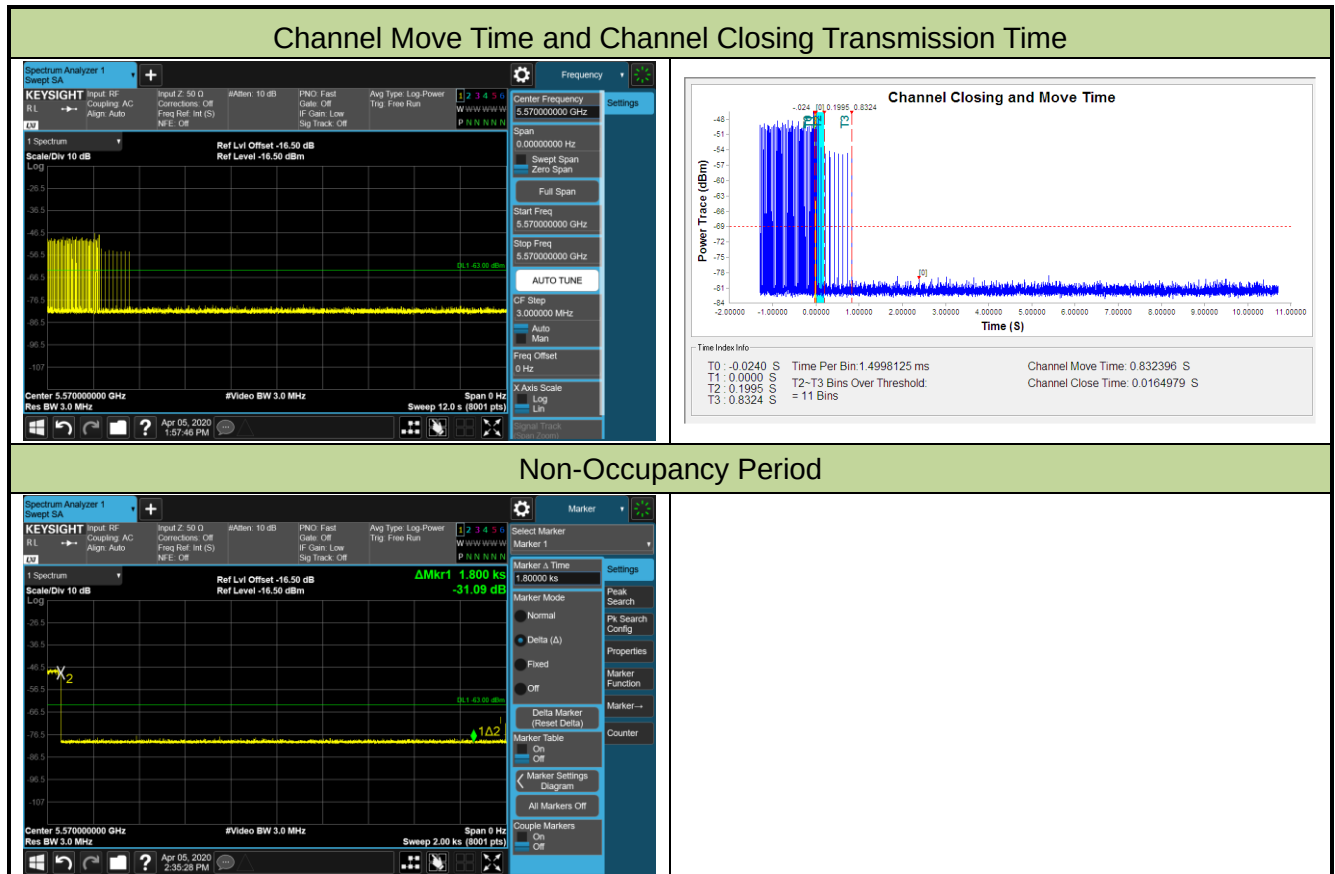
The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time. The Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

### **5.7.2. Test Procedure Used**

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
3. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time).
4. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $Dwell (1.5ms) = S (12 \text{ sec}) / B (8000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C = N \times Dwell$ ; where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.
5. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.

### 5.7.3. Test Result

|               |                                                                                            |                   |            |
|---------------|--------------------------------------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                                             | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                                                  | Relative Humidity | 65%        |
| Test Site     | AC1                                                                                        | Test Date         | 2020/04/05 |
| Test Item     | Channel Move Time and Channel Closing Transmission Time<br>(802.11ax-HE160 mode - 5570MHz) |                   |            |



| Parameter                                                                                                                                                                                                                                                                                                                                                                                                | Test Result | Limit    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|
|                                                                                                                                                                                                                                                                                                                                                                                                          | Type 0      |          |
| Channel Move Time (s)                                                                                                                                                                                                                                                                                                                                                                                    | 0.832s      | <10s     |
| Channel Closing Transmission Time (ms)<br>(Note)                                                                                                                                                                                                                                                                                                                                                         | 16.5ms      | < 60ms   |
| Non-Occupancy Period (min)                                                                                                                                                                                                                                                                                                                                                                               | ≥ 30min     | ≥ 30 min |
| Note: 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 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions. |             |          |

## 5.8. Statistical Performance Check Measurement

### 5.8.1. Test Limit

The minimum percentage of successful detection requirements found in below table when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

| Radar Type                  | Minimum Number of Trails          | Detection Probability |
|-----------------------------|-----------------------------------|-----------------------|
| 0                           | 30                                | Pd > 60%              |
| 1                           | 30(15 of test A and 15 of test B) | Pd > 60%              |
| 2                           | 30                                | Pd > 60%              |
| 3                           | 30                                | Pd > 60%              |
| 4                           | 30                                | Pd > 60%              |
| Aggregate (Radar Types 1-4) | 120                               | Pd > 80%              |
| 5                           | 30                                | Pd > 80%              |
| 6                           | 30                                | Pd > 70%              |

The percentage of successful detection is calculated by:

$(\text{Total Waveform Detections} / \text{Total Waveform Trails}) * 100 = \text{Probability of Detection Radar}$

Waveform In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:  $(Pd1 + Pd2 + Pd3 + Pd4) / 4$ .

### 5.8.2. Test Procedure

1. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
2. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 0 to ensure detection occurs.
4. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
6. The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in below table.

### 5.8.3. Test Result

|               |                                                               |                   |            |
|---------------|---------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                     | Relative Humidity | 65%        |
| Test Site     | AC1                                                           | Test Date         | 2020/04/08 |
| Test Item     | Radar Statistical Performance Check (802.11ax-HE20 – 5500MHz) |                   |            |

#### Radar Type 1 - Radar Statistical Performance

| Trail # | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|---------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1       | 5490.4              | 1                   | 538      | 98             | 1                             |
| 2       | 5490.4              | 1                   | 778      | 68             | 1                             |
| 3       | 5490.4              | 1                   | 858      | 62             | 1                             |
| 4       | 5490.4              | 1                   | 758      | 70             | 1                             |
| 5       | 5490.4              | 1                   | 518      | 102            | 1                             |
| 6       | 5490.4              | 1                   | 718      | 74             | 1                             |
| 7       | 5490.4              | 1                   | 698      | 76             | 1                             |
| 8       | 5490.4              | 1                   | 618      | 86             | 1                             |
| 9       | 5490.4              | 1                   | 838      | 63             | 1                             |
| 10      | 5490.4              | 1                   | 938      | 57             | 1                             |
| 11      | 5500                | 1                   | 658      | 81             | 1                             |
| 12      | 5500                | 1                   | 3066     | 18             | 1                             |
| 13      | 5500                | 1                   | 738      | 72             | 1                             |
| 14      | 5500                | 1                   | 578      | 92             | 1                             |
| 15      | 5500                | 1                   | 898      | 59             | 1                             |
| 16      | 5500                | 1                   | 831      | 64             | 1                             |
| 17      | 5500                | 1                   | 1054     | 50             | 1                             |
| 18      | 5500                | 1                   | 595      | 89             | 1                             |
| 19      | 5500                | 1                   | 1167     | 46             | 1                             |
| 20      | 5500                | 1                   | 2269     | 24             | 1                             |
| 21      | 5509.6              | 1                   | 2110     | 25             | 1                             |
| 22      | 5509.6              | 1                   | 584      | 91             | 1                             |
| 23      | 5509.6              | 1                   | 1866     | 29             | 1                             |
| 24      | 5509.6              | 1                   | 2086     | 26             | 1                             |
| 25      | 5509.6              | 1                   | 2022     | 27             | 1                             |
| 26      | 5509.6              | 1                   | 1327     | 40             | 1                             |

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 27                       | 5509.6              | 1                   | 1988     | 27             | 1                             |
| 28                       | 5509.6              | 1                   | 1426     | 37             | 1                             |
| 29                       | 5509.6              | 1                   | 2808     | 19             | 1                             |
| 30                       | 5509.6              | 1                   | 1035     | 51             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 100%                          |



## Radar Type 2 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5490.4              | 1.4                 | 215      | 29             | 0                             |
| 2                        | 5490.4              | 2.7                 | 203      | 29             | 1                             |
| 3                        | 5490.4              | 1.5                 | 206      | 28             | 1                             |
| 4                        | 5490.4              | 2.4                 | 172      | 24             | 1                             |
| 5                        | 5490.4              | 1.3                 | 185      | 25             | 1                             |
| 6                        | 5490.4              | 4.2                 | 158      | 28             | 1                             |
| 7                        | 5490.4              | 2.4                 | 219      | 26             | 1                             |
| 8                        | 5490.4              | 3.2                 | 176      | 26             | 1                             |
| 9                        | 5490.4              | 4.0                 | 178      | 28             | 1                             |
| 10                       | 5490.4              | 2.0                 | 176      | 23             | 1                             |
| 11                       | 5500                | 2.9                 | 179      | 28             | 1                             |
| 12                       | 5500                | 3.3                 | 178      | 29             | 0                             |
| 13                       | 5500                | 1.5                 | 172      | 24             | 1                             |
| 14                       | 5500                | 2.7                 | 201      | 28             | 0                             |
| 15                       | 5500                | 2.8                 | 175      | 24             | 1                             |
| 16                       | 5500                | 3.5                 | 230      | 28             | 1                             |
| 17                       | 5500                | 4.8                 | 177      | 26             | 1                             |
| 18                       | 5500                | 2.0                 | 165      | 26             | 1                             |
| 19                       | 5500                | 4.0                 | 191      | 23             | 1                             |
| 20                       | 5500                | 1.7                 | 151      | 27             | 1                             |
| 21                       | 5509.6              | 3.4                 | 208      | 24             | 1                             |
| 22                       | 5509.6              | 2.8                 | 166      | 26             | 1                             |
| 23                       | 5509.6              | 3.0                 | 223      | 28             | 1                             |
| 24                       | 5509.6              | 1.3                 | 193      | 25             | 1                             |
| 25                       | 5509.6              | 4.8                 | 211      | 25             | 1                             |
| 26                       | 5509.6              | 4.2                 | 224      | 24             | 1                             |
| 27                       | 5509.6              | 2.1                 | 159      | 26             | 1                             |
| 28                       | 5509.6              | 3.3                 | 222      | 25             | 1                             |
| 29                       | 5509.6              | 1.7                 | 156      | 23             | 1                             |
| 30                       | 5509.6              | 4.3                 | 192      | 26             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 90%                           |

## Radar Type 3 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5490.4              | 6.6                 | 423      | 17             | 1                             |
| 2                        | 5490.4              | 8.8                 | 317      | 17             | 1                             |
| 3                        | 5490.4              | 9.4                 | 356      | 17             | 1                             |
| 4                        | 5490.4              | 8.2                 | 461      | 16             | 0                             |
| 5                        | 5490.4              | 7.1                 | 262      | 16             | 1                             |
| 6                        | 5490.4              | 6.6                 | 339      | 17             | 0                             |
| 7                        | 5490.4              | 7.6                 | 315      | 16             | 1                             |
| 8                        | 5490.4              | 6.4                 | 336      | 17             | 1                             |
| 9                        | 5490.4              | 8.2                 | 458      | 18             | 1                             |
| 10                       | 5490.4              | 9.3                 | 402      | 17             | 1                             |
| 11                       | 5500                | 9.7                 | 343      | 17             | 1                             |
| 12                       | 5500                | 8.2                 | 274      | 18             | 1                             |
| 13                       | 5500                | 9.7                 | 495      | 17             | 1                             |
| 14                       | 5500                | 8.8                 | 349      | 16             | 1                             |
| 15                       | 5500                | 9.1                 | 344      | 17             | 1                             |
| 16                       | 5500                | 6.9                 | 326      | 16             | 1                             |
| 17                       | 5500                | 8.2                 | 319      | 17             | 0                             |
| 18                       | 5500                | 9.1                 | 222      | 17             | 1                             |
| 19                       | 5500                | 8.5                 | 294      | 16             | 0                             |
| 20                       | 5500                | 9.2                 | 226      | 18             | 1                             |
| 21                       | 5509.6              | 9.5                 | 451      | 17             | 1                             |
| 22                       | 5509.6              | 6.7                 | 223      | 17             | 1                             |
| 23                       | 5509.6              | 9.3                 | 496      | 17             | 1                             |
| 24                       | 5509.6              | 7.4                 | 237      | 17             | 1                             |
| 25                       | 5509.6              | 6.8                 | 456      | 17             | 1                             |
| 26                       | 5509.6              | 8.2                 | 312      | 16             | 1                             |
| 27                       | 5509.6              | 6.7                 | 441      | 17             | 0                             |
| 28                       | 5509.6              | 9.6                 | 291      | 17             | 1                             |
| 29                       | 5509.6              | 8.2                 | 307      | 17             | 0                             |
| 30                       | 5509.6              | 8.5                 | 369      | 18             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 80%                           |

## Radar Type 4 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5490.4              | 14.0                | 438      | 15             | 1                             |
| 2                        | 5490.4              | 12.9                | 276      | 13             | 1                             |
| 3                        | 5490.4              | 16.8                | 261      | 15             | 1                             |
| 4                        | 5490.4              | 13.9                | 324      | 15             | 1                             |
| 5                        | 5490.4              | 17.8                | 437      | 16             | 1                             |
| 6                        | 5490.4              | 15.1                | 224      | 12             | 1                             |
| 7                        | 5490.4              | 17.7                | 270      | 14             | 1                             |
| 8                        | 5490.4              | 13.8                | 304      | 13             | 1                             |
| 9                        | 5490.4              | 11.8                | 398      | 14             | 0                             |
| 10                       | 5490.4              | 16.1                | 282      | 14             | 1                             |
| 11                       | 5500                | 11.4                | 251      | 16             | 1                             |
| 12                       | 5500                | 19.0                | 410      | 14             | 1                             |
| 13                       | 5500                | 14.1                | 244      | 16             | 1                             |
| 14                       | 5500                | 17.5                | 328      | 14             | 1                             |
| 15                       | 5500                | 17.1                | 275      | 12             | 1                             |
| 16                       | 5500                | 11.1                | 493      | 13             | 0                             |
| 17                       | 5500                | 12.2                | 344      | 15             | 1                             |
| 18                       | 5500                | 14.9                | 214      | 13             | 0                             |
| 19                       | 5500                | 16.8                | 275      | 13             | 1                             |
| 20                       | 5500                | 17.6                | 268      | 15             | 1                             |
| 21                       | 5509.6              | 19.5                | 476      | 15             | 1                             |
| 22                       | 5509.6              | 18.9                | 408      | 13             | 1                             |
| 23                       | 5509.6              | 15.9                | 456      | 15             | 1                             |
| 24                       | 5509.6              | 14.2                | 207      | 14             | 1                             |
| 25                       | 5509.6              | 18.7                | 319      | 13             | 1                             |
| 26                       | 5509.6              | 12.0                | 464      | 15             | 1                             |
| 27                       | 5509.6              | 15.7                | 279      | 15             | 1                             |
| 28                       | 5509.6              | 20.0                | 222      | 12             | 1                             |
| 29                       | 5509.6              | 19.6                | 236      | 16             | 1                             |
| 30                       | 5509.6              | 15.3                | 376      | 13             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 90%                           |

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows:  $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (100\% + 90\% + 80\% + 90\%) / 4 = 90\% (>80\%)$

## Radar Type 5 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5500.0              | 1                             | 16      | 5495.6              | 1                             |
| 2                        | 5500.0              | 1                             | 17      | 5496.0              | 1                             |
| 3                        | 5500.0              | 1                             | 18      | 5494.0              | 0                             |
| 4                        | 5500.0              | 1                             | 19      | 5494.4              | 1                             |
| 5                        | 5500.0              | 1                             | 20      | 5496.8              | 0                             |
| 6                        | 5500.0              | 1                             | 21      | 5504.4              | 1                             |
| 7                        | 5500.0              | 1                             | 22      | 5506.4              | 1                             |
| 8                        | 5500.0              | 1                             | 23      | 5502.4              | 1                             |
| 9                        | 5500.0              | 1                             | 24      | 5507.2              | 0                             |
| 10                       | 5500.0              | 1                             | 25      | 5506.8              | 1                             |
| 11                       | 5495.2              | 1                             | 26      | 5505.2              | 1                             |
| 12                       | 5492.4              | 1                             | 27      | 5505.2              | 1                             |
| 13                       | 5492.4              | 1                             | 28      | 5506.0              | 1                             |
| 14                       | 5497.2              | 1                             | 29      | 5506.0              | 1                             |
| 15                       | 5492.8              | 1                             | 30      | 5502.8              | 1                             |
| Detection Percentage (%) |                     |                               |         |                     | 90%                           |

| Type 5 Radar Waveform_1 |                  |                          |                   |                               |                               |                                       |
|-------------------------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| Burst                   | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
| 1                       | 1                | 55.3                     | 11                |                               |                               | 527.553                               |
| 2                       | 2                | 53.9                     | 11                | 1445                          |                               | 81.322                                |
| 3                       | 3                | 77                       | 11                | 1113                          | 1155                          | 567.03                                |
| 4                       | 1                | 84                       | 11                |                               |                               | 220.94                                |
| 5                       | 2                | 77.3                     | 11                | 1178                          |                               | 163.76                                |
| 6                       | 2                | 51.4                     | 11                | 1844                          |                               | 477.61                                |
| 7                       | 2                | 95.9                     | 11                | 1195                          |                               | 477.41                                |
| 8                       | 2                | 94.2                     | 11                | 1384                          |                               | 113.95                                |
| 9                       | 1                | 90.1                     | 11                |                               |                               | 174.27                                |
| 10                      | 1                | 91                       | 11                |                               |                               | 204.21                                |
| 11                      | 2                | 90                       | 11                | 1042                          |                               | 198.65                                |
| 12                      | 2                | 89.5                     | 11                | 1674                          |                               | 517.42                                |
| 13                      | 2                | 82.4                     | 11                | 1143                          |                               | 410.2                                 |
| 14                      | 3                | 59.5                     | 11                | 1499                          | 1874                          | 2.36                                  |
| 15                      | 2                | 67.2                     | 11                | 1825                          |                               | 558.39                                |
| 16                      | 2                | 78.1                     | 11                | 1634                          |                               | 96.77                                 |
| 17                      | 1                | 96                       | 11                |                               |                               | 275.54                                |
| 18                      | 2                | 94                       | 11                | 1297                          |                               | 550.3                                 |
| 19                      | 2                | 92.3                     | 11                | 1558                          |                               | 449.8                                 |
| 20                      | 2                | 83.7                     | 11                | 1996                          |                               | 589.4                                 |

## Type 5 Radar Waveform\_2

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 62.6                     | 19                | 1350                          |                               | 410.325                               |
| 2     | 1                | 69.2                     | 19                |                               |                               | 539.057                               |
| 3     | 2                | 94.9                     | 19                | 1323                          |                               | 712.944                               |
| 4     | 3                | 76.8                     | 19                | 1305                          | 1899                          | 510.431                               |
| 5     | 1                | 87.5                     | 19                |                               |                               | 177.039                               |
| 6     | 2                | 81.6                     | 19                | 1113                          |                               | 157.546                               |
| 7     | 2                | 98.8                     | 19                | 1474                          |                               | 625.753                               |
| 8     | 2                | 96.9                     | 19                | 1974                          |                               | 721.99                                |
| 9     | 2                | 61.9                     | 19                | 1166                          |                               | 579.537                               |
| 10    | 1                | 89.5                     | 19                |                               |                               | 792.144                               |
| 11    | 1                | 63                       | 19                |                               |                               | 567.151                               |
| 12    | 1                | 90.6                     | 19                |                               |                               | 744.229                               |
| 13    | 1                | 97.9                     | 19                |                               |                               | 733.843                               |
| 14    | 1                | 68.7                     | 19                |                               |                               |                                       |

## Type 5 Radar Waveform\_3

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 66.1                     | 17                | 1836                          |                               | 648.483                               |
| 2     | 2                | 90.5                     | 17                | 1100                          |                               | 247.013                               |
| 3     | 1                | 77.8                     | 17                |                               |                               | 840.986                               |
| 4     | 3                | 84.9                     | 17                | 1345                          | 1771                          | 444.439                               |
| 5     | 1                | 59.8                     | 17                |                               |                               | 133.892                               |
| 6     | 2                | 86.7                     | 17                | 1100                          |                               | 202.665                               |
| 7     | 3                | 64.5                     | 17                | 1078                          | 1635                          | 896.728                               |
| 8     | 1                | 53.9                     | 17                |                               |                               | 880.222                               |
| 9     | 2                | 93.8                     | 17                | 1766                          |                               | 736.455                               |
| 10    | 2                | 66.9                     | 17                | 1049                          |                               | 491.838                               |
| 11    | 3                | 50.2                     | 17                | 1692                          | 1442                          | 432.001                               |
| 12    | 3                | 77.6                     | 17                | 1237                          | 1179                          | 151.954                               |
| 13    | 3                | 96.7                     | 17                | 1921                          | 1821                          | 600.977                               |

## Type 5 Radar Waveform\_4

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 97.7                     | 10                | 1656                          | 1439                          | 815.86                                |
| 2     | 2                | 98.3                     | 10                | 1663                          |                               | 794.61                                |
| 3     | 2                | 53.9                     | 10                | 1599                          |                               | 876.06                                |
| 4     | 3                | 97.1                     | 10                | 1036                          | 1517                          | 186.77                                |
| 5     | 2                | 95.9                     | 10                | 1519                          |                               | 42.92                                 |
| 6     | 1                | 92                       | 10                |                               |                               | 1040.16                               |
| 7     | 3                | 56.5                     | 10                | 1000                          | 1871                          | 408                                   |
| 8     | 1                | 51.5                     | 10                |                               |                               | 137.74                                |
| 9     | 2                | 56.9                     | 10                | 1730                          |                               | 677.2                                 |
| 10    | 3                | 74.2                     | 10                | 1197                          | 1910                          | 170.4                                 |

## Type 5 Radar Waveform\_5

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 83.1                     | 5                 | 1402                          |                               | 190.09                                |
| 2     | 2                | 59.5                     | 5                 | 1737                          |                               | 89.044                                |
| 3     | 3                | 97.4                     | 5                 | 1751                          | 1774                          | 409.9                                 |
| 4     | 2                | 53.4                     | 5                 | 1751                          |                               | 327.38                                |
| 5     | 1                | 94.4                     | 5                 |                               |                               | 72.14                                 |
| 6     | 3                | 86.8                     | 5                 | 1834                          | 1283                          | 283.68                                |
| 7     | 3                | 97.2                     | 5                 | 1487                          | 1036                          | 164.12                                |
| 8     | 3                | 79                       | 5                 | 1533                          | 1221                          | 353.52                                |
| 9     | 2                | 57.6                     | 5                 | 1204                          |                               | 28.85                                 |
| 10    | 2                | 72.8                     | 5                 | 1662                          |                               | 714.11                                |
| 11    | 3                | 99.5                     | 5                 | 1927                          | 1631                          | 517.49                                |
| 12    | 3                | 81                       | 5                 | 1701                          | 1530                          | 163.4                                 |
| 13    | 1                | 88.9                     | 5                 |                               |                               | 118.57                                |
| 14    | 2                | 77.6                     | 5                 | 1891                          |                               | 464.8                                 |
| 15    | 1                | 50.7                     | 5                 |                               |                               | 388                                   |
| 16    | 3                | 68.3                     | 5                 | 1084                          | 1203                          | 243.4                                 |

## Type 5 Radar Waveform\_6

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 72.7                     | 7                 |                               |                               | 419.999                               |
| 2     | 2                | 58.6                     | 7                 | 1169                          |                               | 161.266                               |
| 3     | 3                | 68.7                     | 7                 | 1278                          | 1425                          | 316.842                               |
| 4     | 1                | 91.2                     | 7                 |                               |                               | 487.243                               |
| 5     | 2                | 88.8                     | 7                 | 1760                          |                               | 571.364                               |
| 6     | 3                | 97.8                     | 7                 | 1180                          | 1428                          | 357.905                               |
| 7     | 1                | 57.2                     | 7                 |                               |                               | 243.886                               |
| 8     | 1                | 54.8                     | 7                 |                               |                               | 527.227                               |
| 9     | 1                | 93.1                     | 7                 |                               |                               | 611.248                               |
| 10    | 3                | 55.9                     | 7                 | 1156                          | 1705                          | 509.889                               |
| 11    | 3                | 53.2                     | 7                 | 1313                          | 1417                          | 166.291                               |
| 12    | 1                | 57.8                     | 7                 |                               |                               | 72.912                                |
| 13    | 3                | 59.8                     | 7                 | 1996                          | 1899                          | 545.173                               |
| 14    | 3                | 83.9                     | 7                 | 1206                          | 1864                          | 118.934                               |
| 15    | 1                | 72.2                     | 7                 |                               |                               | 564.995                               |
| 16    | 1                | 87.2                     | 7                 |                               |                               | 535.516                               |
| 17    | 1                | 73.7                     | 7                 |                               |                               | 353.737                               |
| 18    | 2                | 93.3                     | 7                 | 1460                          |                               | 276.158                               |
| 19    | 3                | 90.2                     | 7                 | 1247                          | 1000                          | 342.679                               |

## Type 5 Radar Waveform\_7

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 64.3                     | 5                 | 1639                          |                               | 872.772                               |
| 2     | 2                | 78.2                     | 5                 | 1616                          |                               | 726.17                                |
| 3     | 3                | 75.4                     | 5                 | 1911                          | 1772                          | 217.57                                |
| 4     | 2                | 51.4                     | 5                 | 1161                          |                               | 305.54                                |
| 5     | 2                | 59.4                     | 5                 | 1548                          |                               | 332.03                                |
| 6     | 1                | 77.6                     | 5                 |                               |                               | 977.17                                |
| 7     | 1                | 62.6                     | 5                 |                               |                               | 431.84                                |
| 8     | 1                | 71.2                     | 5                 |                               |                               | 901.26                                |
| 9     | 2                | 70.3                     | 5                 | 1279                          |                               | 543.73                                |
| 10    | 2                | 80.7                     | 5                 | 1468                          |                               | 516.79                                |
| 11    | 1                | 83.5                     | 5                 |                               |                               | 215.2                                 |
| 12    | 2                | 56.6                     | 5                 | 1573                          |                               | 447.2                                 |



Type 5 Radar Waveform\_8

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 Spacing ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-----------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 63.5                     | 9                 | 1735                              |                               | 347.391                               |
| 2     | 1                | 50.2                     | 9                 |                                   |                               | 160.8                                 |
| 3     | 3                | 59.3                     | 9                 | 1042                              | 1394                          | 22.69                                 |
| 4     | 2                | 69.9                     | 9                 | 1759                              |                               | 252.42                                |
| 5     | 3                | 52.1                     | 9                 | 1267                              | 1598                          | 785.73                                |
| 6     | 1                | 87.4                     | 9                 |                                   |                               | 620.27                                |
| 7     | 3                | 73.7                     | 9                 | 1618                              | 1613                          | 784.67                                |
| 8     | 1                | 55.6                     | 9                 |                                   |                               | 637.93                                |
| 9     | 2                | 87                       | 9                 | 1155                              |                               | 690                                   |
| 10    | 1                | 71.7                     | 9                 |                                   |                               | 334                                   |

Type 5 Radar Waveform\_9

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 72.4                     | 6                 |                               |                               | 448.886                               |
| 2     | 3                | 84.6                     | 6                 | 1089                          | 1668                          | 631.59                                |
| 3     | 3                | 59.4                     | 6                 | 1584                          | 1761                          | 320.35                                |
| 4     | 2                | 68.3                     | 6                 | 1983                          |                               | 445.78                                |
| 5     | 2                | 61.3                     | 6                 | 1576                          |                               | 668.39                                |
| 6     | 1                | 72.2                     | 6                 |                               |                               | 192.19                                |
| 7     | 3                | 86.3                     | 6                 | 1739                          | 1932                          | 232.48                                |
| 8     | 2                | 51                       | 6                 | 1331                          |                               | 6.41                                  |
| 9     | 2                | 74.5                     | 6                 | 1374                          |                               | 358.66                                |
| 10    | 2                | 78.2                     | 6                 | 1293                          |                               | 846.45                                |
| 11    | 2                | 70.4                     | 6                 | 1801                          |                               | 391                                   |
| 12    | 1                | 88.7                     | 6                 |                               |                               | 600                                   |

Type 5 Radar Waveform\_10

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 78.2                     | 14                | 1081                          | 1430                          | 66.316                                |
| 2     | 2                | 62                       | 14                | 1566                          |                               | 608.238                               |
| 3     | 2                | 74.4                     | 14                | 1139                          |                               | 103.085                               |
| 4     | 3                | 80                       | 14                | 1629                          | 1388                          | 334.973                               |
| 5     | 2                | 70.9                     | 14                | 1731                          |                               | 198.671                               |
| 6     | 1                | 94.6                     | 14                |                               |                               | 238.958                               |
| 7     | 1                | 57.5                     | 14                |                               |                               | 616.116                               |
| 8     | 2                | 71.9                     | 14                | 1839                          |                               | 61.904                                |
| 9     | 3                | 85.9                     | 14                | 1741                          | 1798                          | 410.111                               |
| 10    | 1                | 78.1                     | 14                |                               |                               | 425.799                               |
| 11    | 2                | 65.6                     | 14                | 1462                          |                               | 274.206                               |
| 12    | 3                | 87.7                     | 14                | 1570                          | 1275                          | 652.214                               |
| 13    | 3                | 92.9                     | 14                | 1501                          | 1084                          | 489.802                               |
| 14    | 2                | 76.9                     | 14                | 1806                          |                               | 44.039                                |
| 15    | 2                | 51.8                     | 14                | 1487                          |                               | 686.347                               |
| 16    | 2                | 68                       | 14                | 1978                          |                               | 66.765                                |
| 17    | 1                | 91.7                     | 14                |                               |                               | 263.482                               |

Type 5 Radar Waveform\_11

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 74.4                     | 13                | 1248                          |                               | 684.681                               |
| 2     | 2                | 77.3                     | 13                | 1340                          |                               | 388.33                                |
| 3     | 2                | 81.6                     | 13                | 1165                          |                               | 539.3                                 |
| 4     | 3                | 97.8                     | 13                | 1985                          | 1743                          | 176.27                                |
| 5     | 3                | 98.6                     | 13                | 1482                          | 1943                          | 1106.06                               |
| 6     | 1                | 93.5                     | 13                |                               |                               | 655.19                                |
| 7     | 2                | 99.8                     | 13                | 1367                          |                               | 750.37                                |
| 8     | 1                | 54.5                     | 13                |                               |                               | 824.83                                |
| 9     | 2                | 53.4                     | 13                | 1149                          |                               | 477.6                                 |
| 10    | 2                | 91.2                     | 13                | 1522                          |                               | 787.3                                 |

Type 5 Radar Waveform\_12

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 61.2                     | 6                 |                               |                               | 881.279                               |
| 2     | 3                | 59.2                     | 6                 | 1054                          | 1890                          | 543.58                                |
| 3     | 3                | 61.5                     | 6                 | 1224                          | 1577                          | 61.44                                 |
| 4     | 2                | 56.2                     | 6                 | 1714                          |                               | 399.67                                |
| 5     | 3                | 71.6                     | 6                 | 1511                          | 1962                          | 42.63                                 |
| 6     | 2                | 80.2                     | 6                 | 1397                          |                               | 99.94                                 |
| 7     | 1                | 83.7                     | 6                 |                               |                               | 29.33                                 |
| 8     | 3                | 97.9                     | 6                 | 1123                          | 1036                          | 648.43                                |
| 9     | 1                | 72.3                     | 6                 |                               |                               | 20.24                                 |
| 10    | 1                | 60.4                     | 6                 |                               |                               | 590.2                                 |
| 11    | 2                | 57.7                     | 6                 | 1044                          |                               | 850.6                                 |
| 12    | 2                | 51.4                     | 6                 | 1415                          |                               | 420.4                                 |

Type 5 Radar Waveform\_13

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 71.5                     | 6                 | 1529                          |                               | 615.638                               |
| 2     | 2                | 73.3                     | 6                 | 1755                          |                               | 1216.927                              |
| 3     | 2                | 93.9                     | 6                 | 1662                          |                               | 1258.033                              |
| 4     | 3                | 98.9                     | 6                 | 1868                          | 1163                          | 784.45                                |
| 5     | 2                | 75.9                     | 6                 | 1744                          |                               | 27.657                                |
| 6     | 1                | 86                       | 6                 |                               |                               | 735.553                               |
| 7     | 2                | 60.8                     | 6                 | 1301                          |                               | 347.59                                |
| 8     | 2                | 74                       | 6                 | 1494                          |                               | 30.857                                |
| 9     | 2                | 65                       | 6                 | 1321                          |                               | 1215.533                              |



Type 5 Radar Waveform\_14

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 77.1                     | 18                |                               |                               | 287.708                               |
| 2     | 2                | 98.7                     | 18                | 1018                          |                               | 81.391                                |
| 3     | 2                | 92                       | 18                | 1028                          |                               | 274.892                               |
| 4     | 3                | 82.7                     | 18                | 1706                          | 1475                          | 272.353                               |
| 5     | 1                | 88.2                     | 18                |                               |                               | 461.604                               |
| 6     | 2                | 95.9                     | 18                | 1386                          |                               | 18.545                                |
| 7     | 2                | 96.8                     | 18                | 1776                          |                               | 69.365                                |
| 8     | 3                | 71.7                     | 18                | 1121                          | 1830                          | 1033.756                              |
| 9     | 3                | 52.1                     | 18                | 1851                          | 1979                          | 225.217                               |
| 10    | 2                | 98.2                     | 18                | 1975                          |                               | 791.218                               |
| 11    | 1                | 81.3                     | 18                |                               |                               | 255.309                               |

Type 5 Radar Waveform\_15

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 86.8                     | 7                 | 1207                          | 1275                          | 576.172                               |
| 2     | 2                | 53.9                     | 7                 | 1738                          |                               | 924.6                                 |
| 3     | 3                | 83.8                     | 7                 | 1379                          | 1683                          | 497.96                                |
| 4     | 2                | 77.6                     | 7                 | 1383                          |                               | 74.73                                 |
| 5     | 3                | 79                       | 7                 | 1366                          | 1606                          | 546.47                                |
| 6     | 2                | 60.9                     | 7                 | 1938                          |                               | 955.53                                |
| 7     | 1                | 64                       | 7                 |                               |                               | 27.26                                 |
| 8     | 2                | 75.1                     | 7                 | 1573                          |                               | 75.41                                 |
| 9     | 3                | 63.9                     | 7                 | 1767                          | 1773                          | 892.32                                |
| 10    | 1                | 85.1                     | 7                 |                               |                               | 561.4                                 |
| 11    | 1                | 56.7                     | 7                 |                               |                               | 130.5                                 |
| 12    | 2                | 83.2                     | 7                 | 1396                          |                               | 294.3                                 |

Type 5 Radar Waveform\_16

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 84.2                     | 14                | 1337                          |                               | 694.503                               |
| 2     | 3                | 63.1                     | 14                | 1727                          | 1601                          | 273.16                                |
| 3     | 2                | 84                       | 14                | 1050                          |                               | 681.17                                |
| 4     | 2                | 99.5                     | 14                | 1726                          |                               | 154.4                                 |
| 5     | 3                | 88.6                     | 14                | 1414                          | 1268                          | 150.93                                |
| 6     | 2                | 69.2                     | 14                | 1441                          |                               | 418.59                                |
| 7     | 1                | 54.4                     | 14                |                               |                               | 744.44                                |
| 8     | 2                | 50.8                     | 14                | 1187                          |                               | 698.15                                |
| 9     | 2                | 80.5                     | 14                | 1836                          |                               | 373.51                                |
| 10    | 2                | 67.3                     | 14                | 1196                          |                               | 507.91                                |
| 11    | 2                | 58.9                     | 14                | 1968                          |                               | 84.57                                 |
| 12    | 3                | 96.2                     | 14                | 1161                          | 1888                          | 464.36                                |
| 13    | 1                | 50.2                     | 14                |                               |                               | 80                                    |
| 14    | 3                | 79.9                     | 14                | 1584                          | 1475                          | 137.6                                 |
| 15    | 2                | 90.9                     | 14                | 1476                          |                               | 562.8                                 |

Type 5 Radar Waveform\_17

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 51.6                     | 15                |                               |                               | 472.685                               |
| 2     | 2                | 55.3                     | 15                | 1054                          |                               | 671.86                                |
| 3     | 3                | 76.4                     | 15                | 1597                          | 1929                          | 108.18                                |
| 4     | 2                | 98.5                     | 15                | 1432                          |                               | 465.16                                |
| 5     | 1                | 57.6                     | 15                |                               |                               | 54.77                                 |
| 6     | 2                | 66.6                     | 15                | 1093                          |                               | 695.62                                |
| 7     | 2                | 90.2                     | 15                | 1831                          |                               | 388.94                                |
| 8     | 2                | 69.8                     | 15                | 1306                          |                               | 495.64                                |
| 9     | 2                | 50.6                     | 15                | 1357                          |                               | 270.44                                |
| 10    | 3                | 52                       | 15                | 1339                          | 1656                          | 298.16                                |
| 11    | 2                | 93.3                     | 15                | 1585                          |                               | 565.44                                |
| 12    | 2                | 52.9                     | 15                | 1064                          |                               | 135.42                                |
| 13    | 1                | 83.9                     | 15                |                               |                               | 638.46                                |
| 14    | 3                | 75.5                     | 15                | 1461                          | 1757                          | 489.5                                 |
| 15    | 2                | 76.9                     | 15                | 1377                          |                               | 730.1                                 |
| 16    | 2                | 66.5                     | 15                | 1140                          |                               | 312.3                                 |

Type 5 Radar Waveform\_18

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 86.2                     | 10                |                               |                               | 1003.09                               |
| 2     | 2                | 55.1                     | 10                | 1619                          |                               | 1069.987                              |
| 3     | 2                | 86.1                     | 10                | 1711                          |                               | 949.763                               |
| 4     | 1                | 95.2                     | 10                |                               |                               | 897.59                                |
| 5     | 1                | 98.4                     | 10                |                               |                               | 401.987                               |
| 6     | 2                | 87                       | 10                | 1612                          |                               | 697.703                               |
| 7     | 3                | 70.9                     | 10                | 1328                          | 1436                          | 677.78                                |
| 8     | 2                | 53.1                     | 10                | 1755                          |                               | 491.777                               |
| 9     | 3                | 73.7                     | 10                | 1374                          | 1322                          | 617.533                               |

Type 5 Radar Waveform\_19

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 51.7                     | 11                | 1527                          | 1208                          | 354.333                               |
| 2     | 2                | 61.6                     | 11                | 1464                          |                               | 331.137                               |
| 3     | 2                | 98.7                     | 11                | 1172                          |                               | 239.534                               |
| 4     | 1                | 70.1                     | 11                |                               |                               | 213.181                               |
| 5     | 1                | 86                       | 11                |                               |                               | 597.959                               |
| 6     | 1                | 95.2                     | 11                |                               |                               | 235.776                               |
| 7     | 1                | 59.9                     | 11                |                               |                               | 219.103                               |
| 8     | 3                | 51.4                     | 11                | 1115                          | 1721                          | 300.95                                |
| 9     | 3                | 81.2                     | 11                | 1258                          | 1199                          | 732.847                               |
| 10    | 2                | 80.4                     | 11                | 1373                          |                               | 570.344                               |
| 11    | 3                | 89.5                     | 11                | 1919                          | 1966                          | 486.711                               |
| 12    | 2                | 77.2                     | 11                | 1335                          |                               | 130.009                               |
| 13    | 1                | 72.4                     | 11                |                               |                               | 87.986                                |
| 14    | 3                | 70                       | 11                | 1978                          | 1387                          | 447.143                               |

## Type 5 Radar Waveform\_20

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 79.3                     | 17                | 1244                          |                               | 480.438                               |
| 2     | 2                | 52.4                     | 17                | 1495                          |                               | 627.743                               |
| 3     | 1                | 72.1                     | 17                |                               |                               | 503.507                               |
| 4     | 1                | 57.4                     | 17                |                               |                               | 594.08                                |
| 5     | 3                | 54.3                     | 17                | 1087                          | 1616                          | 194.463                               |
| 6     | 2                | 55.2                     | 17                | 1613                          |                               | 642.757                               |
| 7     | 3                | 76.9                     | 17                | 1460                          | 1242                          | 125.93                                |
| 8     | 1                | 97.4                     | 17                |                               |                               | 146.373                               |
| 9     | 2                | 66.4                     | 17                | 1684                          |                               | 357.717                               |
| 10    | 2                | 58.7                     | 17                | 1595                          |                               | 304.66                                |
| 11    | 2                | 86.1                     | 17                | 1933                          |                               | 336.553                               |
| 12    | 1                | 61.4                     | 17                |                               |                               | 396.337                               |
| 13    | 2                | 83.2                     | 17                | 1280                          |                               | 104.85                                |
| 14    | 2                | 79                       | 17                | 1479                          |                               | 522.893                               |
| 15    | 2                | 61.6                     | 17                | 1568                          |                               | 361.137                               |
| 16    | 2                | 88.3                     | 17                | 1909                          |                               | 32.3                                  |
| 17    | 2                | 81.5                     | 17                | 1764                          |                               | 142.533                               |
| 18    | 3                | 73.2                     | 17                | 1365                          | 1834                          | 477.967                               |

## Type 5 Radar Waveform\_21

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 67.6                     | 14                |                               |                               | 147.919                               |
| 2     | 2                | 54.5                     | 14                | 1942                          |                               | 231.69                                |
| 3     | 2                | 79.1                     | 14                | 1212                          |                               | 185.342                               |
| 4     | 3                | 55.8                     | 14                | 1382                          | 1226                          | 276.253                               |
| 5     | 3                | 60.6                     | 14                | 1163                          | 1970                          | 588.784                               |
| 6     | 3                | 89.8                     | 14                | 1113                          | 1290                          | 300.615                               |
| 7     | 3                | 53.3                     | 14                | 1582                          | 1604                          | 316.506                               |
| 8     | 3                | 59.6                     | 14                | 1207                          | 1265                          | 582.577                               |
| 9     | 2                | 68.3                     | 14                | 1848                          |                               | 437.958                               |
| 10    | 2                | 93.1                     | 14                | 1065                          |                               | 246.389                               |
| 11    | 2                | 99.4                     | 14                | 1942                          |                               | 90.021                                |
| 12    | 3                | 75.5                     | 14                | 1754                          | 1117                          | 508.602                               |
| 13    | 1                | 58.4                     | 14                |                               |                               | 461.203                               |
| 14    | 1                | 59.1                     | 14                |                               |                               | 79.494                                |
| 15    | 3                | 83.6                     | 14                | 1555                          | 1012                          | 76.485                                |
| 16    | 3                | 83.2                     | 14                | 1460                          | 1873                          | 288.956                               |
| 17    | 2                | 88.1                     | 14                | 1419                          |                               | 164.537                               |
| 18    | 2                | 54.7                     | 14                | 1183                          |                               | 245.658                               |
| 19    | 1                | 98.2                     | 14                |                               |                               | 358.279                               |

## Type 5 Radar Waveform\_22

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 66.4                     | 9                 | 1578                          |                               | 288.515                               |
| 2     | 1                | 89.7                     | 9                 |                               |                               | 424.863                               |
| 3     | 1                | 66.2                     | 9                 |                               |                               | 540.936                               |
| 4     | 2                | 82.1                     | 9                 | 1763                          |                               | 321.439                               |
| 5     | 3                | 53.8                     | 9                 | 1092                          | 1349                          | 801.232                               |
| 6     | 3                | 83.7                     | 9                 | 1639                          | 1168                          | 762.865                               |
| 7     | 1                | 62.1                     | 9                 |                               |                               | 318.938                               |
| 8     | 1                | 92.9                     | 9                 |                               |                               | 169.002                               |
| 9     | 1                | 85.4                     | 9                 |                               |                               | 883.775                               |
| 10    | 2                | 52                       | 9                 | 1238                          |                               | 314.168                               |
| 11    | 2                | 88.3                     | 9                 | 1266                          |                               | 528.661                               |
| 12    | 2                | 84.9                     | 9                 | 1555                          |                               | 735.754                               |
| 13    | 3                | 75.7                     | 9                 | 1851                          | 1321                          | 702.777                               |



## Type 5 Radar Waveform\_23

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 99.3                     | 19                | 1484                          | 1109                          | 302.793                               |
| 2     | 3                | 84.4                     | 19                | 1176                          | 1444                          | 718.21                                |
| 3     | 1                | 82.6                     | 19                |                               |                               | 12.32                                 |
| 4     | 2                | 76.1                     | 19                | 1608                          |                               | 259.74                                |
| 5     | 1                | 95.4                     | 19                |                               |                               | 451.98                                |
| 6     | 2                | 60.5                     | 19                | 1756                          |                               | 695.01                                |
| 7     | 3                | 91.4                     | 19                | 1359                          | 1126                          | 534.46                                |
| 8     | 2                | 54.7                     | 19                | 1434                          |                               | 790.7                                 |
| 9     | 3                | 63.4                     | 19                | 1722                          | 1670                          | 445.5                                 |
| 10    | 2                | 62.7                     | 19                | 1707                          |                               | 170.16                                |
| 11    | 1                | 78.6                     | 19                |                               |                               | 449.61                                |
| 12    | 1                | 77.7                     | 19                |                               |                               | 27.42                                 |
| 13    | 3                | 68                       | 19                | 1397                          | 1709                          | 579.9                                 |
| 14    | 2                | 93.9                     | 19                | 1941                          |                               | 161.4                                 |
| 15    | 2                | 50.5                     | 19                | 1404                          |                               | 50.4                                  |

## Type 5 Radar Waveform\_24

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 90                       | 7                 | 1116                          |                               | 801.728                               |
| 2     | 2                | 55.9                     | 7                 | 1331                          |                               | 792.771                               |
| 3     | 2                | 78.7                     | 7                 | 1309                          |                               | 539.982                               |
| 4     | 1                | 78.8                     | 7                 |                               |                               | 966.333                               |
| 5     | 3                | 91.9                     | 7                 | 1301                          | 1534                          | 779.144                               |
| 6     | 1                | 89.1                     | 7                 |                               |                               | 779.625                               |
| 7     | 3                | 71                       | 7                 | 1056                          | 1290                          | 80.865                                |
| 8     | 1                | 84.7                     | 7                 |                               |                               | 729.436                               |
| 9     | 3                | 94.7                     | 7                 | 1938                          | 1728                          | 41.167                                |
| 10    | 2                | 83.4                     | 7                 | 1584                          |                               | 558.418                               |
| 11    | 3                | 81.5                     | 7                 | 1724                          | 1620                          | 174.309                               |

## Type 5 Radar Waveform\_25

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 69.1                     | 8                 | 1440                          |                               | 379.408                               |
| 2     | 2                | 91.1                     | 8                 | 1874                          |                               | 575.433                               |
| 3     | 2                | 96                       | 8                 | 1264                          |                               | 515.586                               |
| 4     | 2                | 65.5                     | 8                 | 1585                          |                               | 448.599                               |
| 5     | 3                | 51.7                     | 8                 | 1088                          | 1413                          | 457.892                               |
| 6     | 3                | 50.3                     | 8                 | 1731                          | 1781                          | 388.845                               |
| 7     | 2                | 93.4                     | 8                 | 1694                          |                               | 610.698                               |
| 8     | 1                | 56.2                     | 8                 |                               |                               | 141.892                               |
| 9     | 1                | 93.6                     | 8                 |                               |                               | 168.325                               |
| 10    | 1                | 89.7                     | 8                 |                               |                               | 235.288                               |
| 11    | 2                | 83.5                     | 8                 | 1437                          |                               | 400.151                               |
| 12    | 1                | 57.7                     | 8                 |                               |                               | 403.954                               |
| 13    | 1                | 66                       | 8                 |                               |                               | 481.877                               |

Type 5 Radar Waveform\_26

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 64.4                     | 12                | 1883                          | 1811                          | 775.303                               |
| 2     | 1                | 99.9                     | 12                |                               |                               | 16.489                                |
| 3     | 3                | 95.7                     | 12                | 1361                          | 1125                          | 163.596                               |
| 4     | 2                | 68.6                     | 12                | 1018                          |                               | 824.459                               |
| 5     | 3                | 76.9                     | 12                | 1235                          | 1374                          | 838.522                               |
| 6     | 2                | 62.1                     | 12                | 1233                          |                               | 272.075                               |
| 7     | 2                | 71.9                     | 12                | 1716                          |                               | 742.578                               |
| 8     | 1                | 58.2                     | 12                |                               |                               | 61.662                                |
| 9     | 2                | 72.9                     | 12                | 1590                          |                               | 789.625                               |
| 10    | 1                | 81.4                     | 12                |                               |                               | 760.388                               |
| 11    | 2                | 63.4                     | 12                | 1388                          |                               | 600.821                               |
| 12    | 1                | 84.6                     | 12                |                               |                               | 528.554                               |
| 13    | 2                | 70.2                     | 12                | 1919                          |                               | 657.577                               |

Type 5 Radar Waveform\_27

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 66.8                     | 12                | 1533                          |                               | 309.698                               |
| 2     | 1                | 89.6                     | 12                |                               |                               | 386.783                               |
| 3     | 2                | 89.4                     | 12                | 1769                          |                               | 262.687                               |
| 4     | 3                | 90                       | 12                | 1533                          | 1657                          | 535.73                                |
| 5     | 2                | 51.3                     | 12                | 1418                          |                               | 44.273                                |
| 6     | 2                | 88.6                     | 12                | 1239                          |                               | 5.997                                 |
| 7     | 3                | 96.4                     | 12                | 1273                          | 1105                          | 265.57                                |
| 8     | 2                | 75.3                     | 12                | 1514                          |                               | 527.523                               |
| 9     | 1                | 50.6                     | 12                |                               |                               | 377.417                               |
| 10    | 3                | 99.4                     | 12                | 1525                          | 1741                          | 472.9                                 |
| 11    | 2                | 97.4                     | 12                | 1565                          |                               | 207.773                               |
| 12    | 1                | 50.8                     | 12                |                               |                               | 580.717                               |
| 13    | 2                | 57.4                     | 12                | 1319                          |                               | 437.88                                |
| 14    | 3                | 90.2                     | 12                | 1708                          | 1781                          | 34.193                                |
| 15    | 2                | 77.4                     | 12                | 1369                          |                               | 138.447                               |
| 16    | 1                | 65.5                     | 12                |                               |                               | 549.1                                 |
| 17    | 2                | 57                       | 12                | 1747                          |                               | 92.733                                |
| 18    | 3                | 80.9                     | 12                | 1777                          | 1112                          | 288.267                               |

Type 5 Radar Waveform\_28

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 83.8                     | 10                | 1538                          |                               | 244.518                               |
| 2     | 2                | 59.9                     | 10                | 1894                          |                               | 287.29                                |
| 3     | 2                | 67.9                     | 10                | 1063                          |                               | 146.64                                |
| 4     | 1                | 85.8                     | 10                |                               |                               | 753.24                                |
| 5     | 1                | 66.9                     | 10                |                               |                               | 494.97                                |
| 6     | 2                | 63.6                     | 10                | 1265                          |                               | 2.39                                  |
| 7     | 3                | 51.5                     | 10                | 1733                          | 1395                          | 83.7                                  |
| 8     | 1                | 62.3                     | 10                |                               |                               | 983.9                                 |

Type 5 Radar Waveform\_29

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 98.6                     | 10                | 1858                          | 1623                          | 498.549                               |
| 2     | 2                | 50.3                     | 10                | 1597                          |                               | 584.347                               |
| 3     | 2                | 72.4                     | 10                | 1814                          |                               | 562.314                               |
| 4     | 3                | 57.2                     | 10                | 1236                          | 1405                          | 819.741                               |
| 5     | 1                | 78                       | 10                |                               |                               | 287.039                               |
| 6     | 2                | 79                       | 10                | 1918                          |                               | 628.976                               |
| 7     | 3                | 95                       | 10                | 1778                          | 1648                          | 11.523                                |
| 8     | 2                | 98.7                     | 10                | 1160                          |                               | 838.73                                |
| 9     | 3                | 54                       | 10                | 1343                          | 1374                          | 413.587                               |
| 10    | 1                | 82.1                     | 10                |                               |                               | 180.964                               |
| 11    | 2                | 52.6                     | 10                | 1038                          |                               | 541.371                               |
| 12    | 3                | 78                       | 10                | 1915                          | 1163                          | 512.859                               |
| 13    | 1                | 75.2                     | 10                |                               |                               | 591.786                               |
| 14    | 1                | 77.4                     | 10                |                               |                               | 327.043                               |

Type 5 Radar Waveform\_30

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 78.2                     | 18                | 1487                          |                               | 415.043                               |
| 2     | 2                | 65.2                     | 18                | 1564                          |                               | 798.88                                |
| 3     | 1                | 76.1                     | 18                |                               |                               | 913.24                                |
| 4     | 1                | 55.1                     | 18                |                               |                               | 10.21                                 |
| 5     | 2                | 75.2                     | 18                | 1759                          |                               | 793.17                                |
| 6     | 2                | 88.5                     | 18                | 1182                          |                               | 436.16                                |
| 7     | 2                | 99.1                     | 18                | 1013                          |                               | 428.65                                |
| 8     | 2                | 51.1                     | 18                | 1669                          |                               | 896.45                                |
| 9     | 3                | 73.2                     | 18                | 1906                          | 1055                          | 821.48                                |
| 10    | 2                | 90.8                     | 18                | 1764                          |                               | 776.85                                |
| 11    | 3                | 69.7                     | 18                | 1963                          | 1209                          | 129.3                                 |
| 12    | 2                | 83.8                     | 18                | 1814                          |                               | 832.4                                 |

## Radar Type 6 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5490.4              | 1                             | 16      | 5500                | 1                             |
| 2                        | 5490.4              | 1                             | 17      | 5500                | 1                             |
| 3                        | 5490.4              | 1                             | 18      | 5500                | 1                             |
| 4                        | 5490.4              | 1                             | 19      | 5500                | 1                             |
| 5                        | 5490.4              | 1                             | 20      | 5500                | 1                             |
| 6                        | 5490.4              | 1                             | 21      | 5509.6              | 1                             |
| 7                        | 5490.4              | 1                             | 22      | 5509.6              | 1                             |
| 8                        | 5490.4              | 1                             | 23      | 5509.6              | 1                             |
| 9                        | 5490.4              | 1                             | 24      | 5509.6              | 1                             |
| 10                       | 5490.4              | 1                             | 25      | 5509.6              | 1                             |
| 11                       | 5500                | 1                             | 26      | 5509.6              | 1                             |
| 12                       | 5500                | 1                             | 27      | 5509.6              | 1                             |
| 13                       | 5500                | 1                             | 28      | 5509.6              | 1                             |
| 14                       | 5500                | 1                             | 29      | 5509.6              | 1                             |
| 15                       | 5500                | 1                             | 30      | 5509.6              | 1                             |
| Detection Percentage (%) |                     |                               |         |                     | 100%                          |

| Radar waveform #1 |                 |                  | Radar waveform #2 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 7                 | 5495            | 21               | 27                | 5509            | 81               |
| 36                | 5506            | 108              | 38                | 5490            | 114              |
| 68                | 5490            | 204              | 42                | 5495            | 126              |
| 81                | 5499            | 243              | 52                | 5503            | 156              |
| --                | --              | --               | 56                | 5494            | 168              |
| --                | --              | --               | 80                | 5510            | 240              |

| Radar waveform #3 |                 |                  | Radar waveform #4 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 19                | 5509            | 57               | 13                | 5492            | 39               |
| 64                | 5508            | 192              | 25                | 5494            | 75               |
| 65                | 5503            | 195              | 50                | 5504            | 150              |
| 86                | 5504            | 258              | 60                | 5497            | 180              |
| --                | --              | --               | 83                | 5496            | 249              |

| Radar waveform #5 |                 |                  | Radar waveform #6 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 9                 | 5491            | 27               | 30                | 5501            | 90               |
| 13                | 5507            | 39               | 31                | 5502            | 93               |
| 69                | 5495            | 207              | 43                | 5495            | 129              |
| --                | --              | --               | 51                | 5503            | 153              |
| --                | --              | --               | 73                | 5500            | 219              |

| Radar waveform #7 |                 |                  | Radar waveform #8 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 53                | 5498            | 159              | 43                | 5495            | 129              |
| 58                | 5509            | 174              | 48                | 5502            | 144              |
| --                | --              | --               | 65                | 5508            | 195              |



| Radar waveform #9 |                 |                  | Radar waveform #10 |                 |                  |
|-------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 40                | 5496            | 120              | 26                 | 5499            | 78               |
| 68                | 5497            | 204              | 37                 | 5509            | 111              |
| 71                | 5502            | 213              | 58                 | 5496            | 174              |
| 79                | 5493            | 237              | 80                 | 5490            | 240              |

| Radar waveform #11 |                 |                  | Radar waveform #12 |                |                  |
|--------------------|-----------------|------------------|--------------------|----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Frequency (MHz)    | Hopping Number | Pulse Start (ms) |
| 27                 | 5505            | 81               | 30                 | 5495           | 90               |
| 43                 | 5503            | 129              | 35                 | 5498           | 105              |
| 80                 | 5507            | 240              | 57                 | 5507           | 171              |
| --                 | --              | --               | 65                 | 5509           | 195              |
| --                 | --              | --               | 74                 | 5497           | 222              |
| --                 | --              | --               | 90                 | 5490           | 270              |

| Radar waveform #13 |                 |                  | Radar waveform #14 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 36                 | 5504            | 108              | 6                  | 5495            | 18               |
| 48                 | 5494            | 144              | 29                 | 5504            | 87               |
| 58                 | 5506            | 174              | 71                 | 5506            | 213              |
| 99                 | 5508            | 297              | 88                 | 5505            | 264              |
| --                 | --              | --               | 91                 | 5507            | 273              |
| --                 | --              | --               | 97                 | 5508            | 291              |

| Radar waveform #15 |                 |                  | Radar waveform #16 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 10                 | 5570            | 30               | 17                 | 5490            | 51               |
| 22                 | 5579            | 66               | 25                 | 5498            | 75               |
| 28                 | 5585            | 84               | 36                 | 5505            | 108              |
| 96                 | 5581            | 288              | 51                 | 5497            | 153              |
| --                 | --              | --               | 59                 | 5494            | 177              |
| --                 | --              | --               | 88                 | 5502            | 264              |
| --                 | --              | --               | 89                 | 5499            | 267              |

| Radar waveform #17 |                 |                  | Radar waveform #18 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 45                 | 5501            | 135              | 43                 | 5491            | 129              |
| 52                 | 5503            | 156              | 61                 | 5495            | 183              |
| 58                 | 5496            | 174              | 63                 | 5496            | 189              |
| 63                 | 5507            | 189              | --                 | --              | --               |
| 82                 | 5499            | 246              | --                 | --              | --               |

| Radar waveform #19 |                 |                  | Radar waveform #20 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 32                 | 5501            | 96               | 63                 | 5492            | 189              |
| 68                 | 5505            | 204              | 98                 | 5507            | 294              |
| 80                 | 5500            | 240              | --                 | --              | --               |

| Radar waveform #21 |                 |                  | Radar waveform #22 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 3                  | 5507            | 9                | 3                  | 5508            | 9                |
| 10                 | 5491            | 30               | 8                  | 5491            | 24               |
| 34                 | 5502            | 102              | 10                 | 5490            | 30               |
| 38                 | 5499            | 114              | 30                 | 5503            | 90               |
| --                 | --              | --               | 47                 | 5502            | 141              |
| --                 | --              | --               | 49                 | 5499            | 147              |
| --                 | --              | --               | 55                 | 5492            | 165              |
| --                 | --              | --               | 66                 | 5507            | 198              |
| --                 | --              | --               | 78                 | 5494            | 234              |
| --                 | --              | --               | 92                 | 5505            | 276              |

| Radar waveform #23 |                 |                  | Radar waveform #24 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 8                  | 5505            | 24               | 34                 | 5506            | 102              |
| --                 | --              | --               | 44                 | 5490            | 132              |
| --                 | --              | --               | 66                 | 5504            | 198              |
| --                 | --              | --               | 73                 | 5505            | 219              |
| --                 | --              | --               | 86                 | 5499            | 258              |
| --                 | --              | --               | 91                 | 5508            | 273              |

| Radar waveform #25 |                 |                  | Radar waveform #26 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 9                  | 5500            | 27               | 16                 | 5499            | 48               |
| 32                 | 5495            | 96               | 30                 | 5507            | 90               |
| 44                 | 5496            | 132              | 52                 | 5497            | 156              |
| 75                 | 5498            | 225              | 59                 | 5493            | 177              |

| Radar waveform #27 |                 |                  | Radar waveform #28 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 38                 | 5499            | 114              | 5                  | 5505            | 15               |
| 39                 | 5497            | 117              | 17                 | 5495            | 51               |
| 44                 | 5504            | 132              | 24                 | 5490            | 72               |
| 45                 | 5502            | 135              | 73                 | 5507            | 219              |
| 71                 | 5490            | 213              | 92                 | 5496            | 276              |
| 74                 | 5498            | 222              | --                 | --              | --               |

| Radar waveform #29 |                 |                  | Radar waveform #30 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 94                 | 5498            | 282              | 21                 | 5497            | 63               |
| --                 | --              | --               | 43                 | 5491            | 129              |
| --                 | --              | --               | 49                 | 5501            | 147              |
| --                 | --              | --               | 88                 | 5508            | 264              |
| --                 | --              | --               | 89                 | 5506            | 267              |

|               |                                                                    |                   |            |
|---------------|--------------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                     | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                          | Relative Humidity | 65%        |
| Test Site     | AC1                                                                | Test Date         | 2020/04/08 |
| Test Item     | Radar Statistical Performance Check (802.11ax-HE40 mode – 5510MHz) |                   |            |

#### Radar Type 1 - Radar Statistical Performance

| Trail # | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|---------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1       | 5491                | 1                   | 878      | 61             | 1                             |
| 2       | 5491                | 1                   | 798      | 67             | 1                             |
| 3       | 5491                | 1                   | 918      | 58             | 1                             |
| 4       | 5491                | 1                   | 818      | 65             | 1                             |
| 5       | 5500                | 1                   | 658      | 81             | 1                             |
| 6       | 5500                | 1                   | 578      | 92             | 1                             |
| 7       | 5500                | 1                   | 758      | 70             | 1                             |
| 8       | 5500                | 1                   | 738      | 72             | 1                             |
| 9       | 5509                | 1                   | 638      | 83             | 1                             |
| 10      | 5509                | 1                   | 3066     | 18             | 1                             |
| 11      | 5509                | 1                   | 678      | 78             | 1                             |
| 12      | 5509                | 1                   | 598      | 89             | 0                             |
| 13      | 5510                | 1                   | 898      | 59             | 1                             |
| 14      | 5510                | 1                   | 538      | 98             | 1                             |
| 15      | 5510                | 1                   | 858      | 62             | 1                             |
| 16      | 5510                | 1                   | 836      | 64             | 0                             |
| 17      | 5510                | 1                   | 3005     | 18             | 0                             |
| 18      | 5510                | 1                   | 2651     | 20             | 1                             |
| 19      | 5511                | 1                   | 2040     | 26             | 1                             |
| 20      | 5511                | 1                   | 883      | 60             | 1                             |
| 21      | 5511                | 1                   | 1715     | 31             | 1                             |
| 22      | 5511                | 1                   | 911      | 58             | 0                             |
| 23      | 5520                | 1                   | 2480     | 22             | 0                             |
| 24      | 5520                | 1                   | 1328     | 40             | 1                             |
| 25      | 5520                | 1                   | 958      | 56             | 0                             |
| 26      | 5520                | 1                   | 1345     | 40             | 1                             |

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 27                       | 5529                | 1                   | 1368     | 39             | 1                             |
| 28                       | 5529                | 1                   | 597      | 89             | 0                             |
| 29                       | 5529                | 1                   | 1515     | 35             | 1                             |
| 30                       | 5529                | 1                   | 1985     | 27             | 0                             |
| Detection Percentage (%) |                     |                     |          |                | 73.3%                         |

## Radar Type 2 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 2.1                 | 186      | 29             | 1                             |
| 2                        | 5491                | 3.0                 | 230      | 27             | 1                             |
| 3                        | 5491                | 2.8                 | 177      | 25             | 1                             |
| 4                        | 5491                | 2.7                 | 150      | 29             | 1                             |
| 5                        | 5500                | 2.6                 | 199      | 26             | 1                             |
| 6                        | 5500                | 3.4                 | 216      | 24             | 1                             |
| 7                        | 5500                | 4.0                 | 229      | 27             | 1                             |
| 8                        | 5500                | 3.2                 | 205      | 26             | 1                             |
| 9                        | 5509                | 2.9                 | 215      | 28             | 1                             |
| 10                       | 5509                | 2.5                 | 228      | 28             | 1                             |
| 11                       | 5509                | 2.4                 | 204      | 26             | 1                             |
| 12                       | 5509                | 3.3                 | 227      | 23             | 1                             |
| 13                       | 5510                | 4.9                 | 229      | 26             | 1                             |
| 14                       | 5510                | 1.2                 | 178      | 28             | 1                             |
| 15                       | 5510                | 3.2                 | 156      | 24             | 1                             |
| 16                       | 5510                | 2.3                 | 213      | 25             | 1                             |
| 17                       | 5510                | 3.2                 | 215      | 27             | 1                             |
| 18                       | 5510                | 1.6                 | 186      | 27             | 1                             |
| 19                       | 5511                | 3.3                 | 158      | 27             | 1                             |
| 20                       | 5511                | 4.8                 | 227      | 23             | 1                             |
| 21                       | 5511                | 3.8                 | 212      | 29             | 1                             |
| 22                       | 5511                | 4.8                 | 206      | 24             | 1                             |
| 23                       | 5520                | 1.4                 | 162      | 23             | 1                             |
| 24                       | 5520                | 3.4                 | 167      | 26             | 1                             |
| 25                       | 5520                | 4.7                 | 208      | 26             | 1                             |
| 26                       | 5520                | 4.8                 | 169      | 23             | 1                             |
| 27                       | 5529                | 1.6                 | 158      | 26             | 1                             |
| 28                       | 5529                | 1.7                 | 210      | 24             | 1                             |
| 29                       | 5529                | 3.8                 | 201      | 28             | 1                             |
| 30                       | 5529                | 4.2                 | 161      | 28             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 100%                          |



## Radar Type 3 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 7.7                 | 436      | 16             | 1                             |
| 2                        | 5491                | 9.3                 | 232      | 18             | 0                             |
| 3                        | 5491                | 10.0                | 451      | 17             | 1                             |
| 4                        | 5491                | 9.2                 | 466      | 16             | 1                             |
| 5                        | 5500                | 6.7                 | 467      | 16             | 1                             |
| 6                        | 5500                | 9.7                 | 491      | 16             | 1                             |
| 7                        | 5500                | 6.0                 | 221      | 17             | 1                             |
| 8                        | 5500                | 6.3                 | 361      | 17             | 1                             |
| 9                        | 5509                | 8.4                 | 500      | 17             | 1                             |
| 10                       | 5509                | 8.7                 | 390      | 16             | 0                             |
| 11                       | 5509                | 10.0                | 358      | 16             | 1                             |
| 12                       | 5509                | 9.4                 | 373      | 17             | 1                             |
| 13                       | 5510                | 6.1                 | 360      | 16             | 0                             |
| 14                       | 5510                | 8.9                 | 250      | 17             | 1                             |
| 15                       | 5510                | 9.7                 | 323      | 16             | 1                             |
| 16                       | 5510                | 8.8                 | 278      | 16             | 1                             |
| 17                       | 5510                | 9.6                 | 249      | 18             | 1                             |
| 18                       | 5510                | 6.6                 | 349      | 16             | 1                             |
| 19                       | 5511                | 8.0                 | 360      | 16             | 0                             |
| 20                       | 5511                | 6.0                 | 469      | 17             | 1                             |
| 21                       | 5511                | 6.0                 | 500      | 16             | 1                             |
| 22                       | 5511                | 9.6                 | 417      | 17             | 1                             |
| 23                       | 5520                | 8.5                 | 348      | 17             | 1                             |
| 24                       | 5520                | 9.9                 | 492      | 17             | 1                             |
| 25                       | 5520                | 6.2                 | 315      | 17             | 1                             |
| 26                       | 5520                | 8.2                 | 338      | 17             | 1                             |
| 27                       | 5529                | 7.4                 | 492      | 16             | 1                             |
| 28                       | 5529                | 7.5                 | 225      | 17             | 1                             |
| 29                       | 5529                | 7.9                 | 369      | 17             | 1                             |
| 30                       | 5529                | 6.4                 | 281      | 17             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 86.7%                         |

## Radar Type 4 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 15.6                | 358      | 16             | 1                             |
| 2                        | 5491                | 16.7                | 374      | 13             | 1                             |
| 3                        | 5491                | 11.5                | 346      | 13             | 0                             |
| 4                        | 5491                | 13.1                | 482      | 12             | 1                             |
| 5                        | 5500                | 12.7                | 302      | 15             | 1                             |
| 6                        | 5500                | 14.9                | 220      | 14             | 1                             |
| 7                        | 5500                | 16.2                | 473      | 14             | 1                             |
| 8                        | 5500                | 14.4                | 386      | 13             | 1                             |
| 9                        | 5509                | 14.4                | 444      | 13             | 1                             |
| 10                       | 5509                | 11.5                | 236      | 15             | 0                             |
| 11                       | 5509                | 14.4                | 435      | 15             | 1                             |
| 12                       | 5509                | 17.9                | 282      | 14             | 1                             |
| 13                       | 5510                | 16.5                | 289      | 14             | 0                             |
| 14                       | 5510                | 13.8                | 406      | 12             | 1                             |
| 15                       | 5510                | 14.5                | 424      | 13             | 1                             |
| 16                       | 5510                | 15.7                | 347      | 15             | 1                             |
| 17                       | 5510                | 11.8                | 358      | 14             | 0                             |
| 18                       | 5510                | 15.3                | 300      | 12             | 1                             |
| 19                       | 5511                | 12.6                | 365      | 12             | 1                             |
| 20                       | 5511                | 19.4                | 222      | 16             | 1                             |
| 21                       | 5511                | 14.5                | 348      | 13             | 1                             |
| 22                       | 5511                | 19.9                | 475      | 14             | 1                             |
| 23                       | 5520                | 13.9                | 290      | 16             | 1                             |
| 24                       | 5520                | 13.5                | 439      | 13             | 1                             |
| 25                       | 5520                | 19.9                | 483      | 13             | 1                             |
| 26                       | 5520                | 12.3                | 238      | 14             | 1                             |
| 27                       | 5529                | 16.3                | 287      | 15             | 1                             |
| 28                       | 5529                | 19.1                | 374      | 16             | 1                             |
| 29                       | 5529                | 11.2                | 336      | 12             | 1                             |
| 30                       | 5529                | 13.1                | 251      | 16             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 86.7%                         |

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows:  $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (73.3\% + 100\% + 86.7\% + 86.7\%) / 4 = 86.7\% (>80\%)$

### Radar Type 5 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5510.0              | 0                             | 16      | 5497.4              | 1                             |
| 2                        | 5510.0              | 1                             | 17      | 5495.8              | 1                             |
| 3                        | 5510.0              | 1                             | 18      | 5497.8              | 1                             |
| 4                        | 5510.0              | 1                             | 19      | 5496.2              | 1                             |
| 5                        | 5510.0              | 1                             | 20      | 5497.0              | 1                             |
| 6                        | 5510.0              | 1                             | 21      | 5521.0              | 1                             |
| 7                        | 5510.0              | 1                             | 22      | 5525.0              | 1                             |
| 8                        | 5510.0              | 0                             | 23      | 5522.2              | 1                             |
| 9                        | 5510.0              | 1                             | 24      | 5523.0              | 0                             |
| 10                       | 5510.0              | 1                             | 25      | 5523.4              | 1                             |
| 11                       | 5494.2              | 1                             | 26      | 5526.2              | 1                             |
| 12                       | 5494.6              | 1                             | 27      | 5527.0              | 1                             |
| 13                       | 5499.0              | 1                             | 28      | 5525.0              | 1                             |
| 14                       | 5497.0              | 1                             | 29      | 5525.4              | 1                             |
| 15                       | 5495.0              | 1                             | 30      | 5526.6              | 1                             |
| Detection Percentage (%) |                     |                               |         |                     | 90%                           |

| Type 5 Radar Waveform_1 |                     |                                |                      |                                     |                                     |                                             |
|-------------------------|---------------------|--------------------------------|----------------------|-------------------------------------|-------------------------------------|---------------------------------------------|
| Burst                   | Number of<br>Pulses | Pulse<br>Width ( $\mu$<br>sec) | Chirp Width<br>(MHz) | Pulse 1-to-2<br>PRI<br>( $\mu$ sec) | Pulse 2-to-3<br>PRI<br>( $\mu$ sec) | Start Location<br>Within Interval<br>(msec) |
| 1                       | 1                   | 100                            | 15                   |                                     |                                     | 71.053                                      |
| 2                       | 2                   | 59.4                           | 15                   | 1827                                |                                     | 520.35                                      |
| 3                       | 1                   | 72.7                           | 15                   |                                     |                                     | 347.7                                       |
| 4                       | 2                   | 72.6                           | 15                   | 1675                                |                                     | 948.15                                      |
| 5                       | 2                   | 74.3                           | 15                   | 1553                                |                                     | 566.18                                      |
| 6                       | 1                   | 67.5                           | 15                   |                                     |                                     | 973.75                                      |
| 7                       | 1                   | 63.7                           | 15                   |                                     |                                     | 799.19                                      |
| 8                       | 2                   | 54                             | 15                   | 1900                                |                                     | 318.01                                      |
| 9                       | 2                   | 54.8                           | 15                   | 1119                                |                                     | 56.95                                       |
| 10                      | 1                   | 80.9                           | 15                   |                                     |                                     | 532                                         |

## Type 5 Radar Waveform\_2

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 68.4                     | 20                | 1768                          |                               | 823.276                               |
| 2     | 3                | 62.3                     | 20                | 1898                          | 1360                          | 866.141                               |
| 3     | 2                | 95.1                     | 20                | 1424                          |                               | 259.892                               |
| 4     | 2                | 93.2                     | 20                | 1387                          |                               | 1002.243                              |
| 5     | 1                | 92.1                     | 20                |                               |                               | 441.484                               |
| 6     | 3                | 61.4                     | 20                | 1295                          | 1493                          | 718.345                               |
| 7     | 2                | 67.4                     | 20                | 1100                          |                               | 597.235                               |
| 8     | 3                | 70.5                     | 20                | 1997                          | 1278                          | 260.726                               |
| 9     | 2                | 81.2                     | 20                | 1190                          |                               | 227.197                               |
| 10    | 1                | 99.4                     | 20                |                               |                               | 120.548                               |
| 11    | 2                | 81.4                     | 20                | 1356                          |                               | 1030.909                              |

## Type 5 Radar Waveform\_3

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 87.2                     | 6                 |                               |                               | 26.894                                |
| 2     | 1                | 61.1                     | 6                 |                               |                               | 351.231                               |
| 3     | 3                | 83.9                     | 6                 | 1503                          | 1701                          | 353.472                               |
| 4     | 2                | 57.9                     | 6                 | 1071                          |                               | 494.883                               |
| 5     | 2                | 77.8                     | 6                 | 1694                          |                               | 73.174                                |
| 6     | 2                | 67.9                     | 6                 | 1318                          |                               | 98.065                                |
| 7     | 1                | 88.6                     | 6                 |                               |                               | 290.306                               |
| 8     | 2                | 59.9                     | 6                 | 1815                          |                               | 10.807                                |
| 9     | 1                | 55.5                     | 6                 |                               |                               | 59.438                                |
| 10    | 3                | 84.5                     | 6                 | 1896                          | 1324                          | 318.059                               |
| 11    | 2                | 72.4                     | 6                 | 1940                          |                               | 581.091                               |
| 12    | 1                | 69                       | 6                 |                               |                               | 172.722                               |
| 13    | 2                | 99.8                     | 6                 | 1879                          |                               | 410.873                               |
| 14    | 2                | 66.4                     | 6                 | 1670                          |                               | 343.294                               |
| 15    | 1                | 94.4                     | 6                 |                               |                               | 121.005                               |
| 16    | 3                | 84.5                     | 6                 | 1032                          | 1311                          | 177.236                               |
| 17    | 2                | 62.3                     | 6                 | 1974                          |                               | 122.237                               |
| 18    | 3                | 66                       | 6                 | 1552                          | 1371                          | 491.158                               |
| 19    | 2                | 56.7                     | 6                 | 1787                          |                               | 256.479                               |

## Type 5 Radar Waveform\_4

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 70                       | 20                |                               |                               | 606.009                               |
| 2     | 3                | 83.7                     | 20                | 1636                          | 1782                          | 827.171                               |
| 3     | 1                | 98.6                     | 20                |                               |                               | 1025.982                              |
| 4     | 2                | 85.5                     | 20                | 1845                          |                               | 843.003                               |
| 5     | 2                | 89.3                     | 20                | 1558                          |                               | 844.104                               |
| 6     | 2                | 60.2                     | 20                | 1857                          |                               | 965.235                               |
| 7     | 3                | 98.5                     | 20                | 1148                          | 1270                          | 164.915                               |
| 8     | 2                | 76.9                     | 20                | 1914                          |                               | 175.536                               |
| 9     | 2                | 93.2                     | 20                | 1712                          |                               | 494.737                               |
| 10    | 1                | 81.8                     | 20                |                               |                               | 469.018                               |
| 11    | 3                | 91.7                     | 20                | 1638                          | 1612                          | 899.809                               |

## Type 5 Radar Waveform\_5

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 76.7                     | 7                 | 1548                          |                               | 230.853                               |
| 2     | 1                | 99.2                     | 7                 |                               |                               | 433.361                               |
| 3     | 1                | 95.8                     | 7                 |                               |                               | 72.872                                |
| 4     | 2                | 69.6                     | 7                 | 1836                          |                               | 378.423                               |
| 5     | 1                | 80.8                     | 7                 |                               |                               | 356.814                               |
| 6     | 2                | 80.1                     | 7                 | 1668                          |                               | 538.425                               |
| 7     | 3                | 73                       | 7                 | 1412                          | 1451                          | 562.626                               |
| 8     | 1                | 80.4                     | 7                 |                               |                               | 37.337                                |
| 9     | 3                | 97.3                     | 7                 | 1287                          | 1429                          | 91.848                                |
| 10    | 2                | 85.2                     | 7                 | 1278                          |                               | 290.839                               |
| 11    | 3                | 96.4                     | 7                 | 1550                          | 1614                          | 247.151                               |
| 12    | 2                | 63.9                     | 7                 | 1035                          |                               | 383.222                               |
| 13    | 1                | 76                       | 7                 |                               |                               | 561.053                               |
| 14    | 2                | 91.1                     | 7                 | 1749                          |                               | 12.494                                |
| 15    | 1                | 65.7                     | 7                 |                               |                               | 375.015                               |
| 16    | 2                | 51.4                     | 7                 | 1567                          |                               | 500.946                               |
| 17    | 3                | 92.3                     | 7                 | 1197                          | 1161                          | 385.937                               |
| 18    | 2                | 84.4                     | 7                 | 1355                          |                               | 329.458                               |
| 19    | 3                | 74.8                     | 7                 | 1478                          | 1039                          | 527.179                               |

## Type 5 Radar Waveform\_6

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 99                       | 15                | 1920                          |                               | 1230.89                               |
| 2     | 2                | 87.2                     | 15                | 1300                          |                               | 1084.86                               |
| 3     | 2                | 95.5                     | 15                | 1751                          |                               | 1092.03                               |
| 4     | 1                | 67.4                     | 15                |                               |                               | 96.54                                 |
| 5     | 2                | 79.9                     | 15                | 1957                          |                               | 305.83                                |
| 6     | 2                | 50.3                     | 15                | 1834                          |                               | 985.27                                |
| 7     | 1                | 77.7                     | 15                |                               |                               | 1256.1                                |
| 8     | 2                | 83.6                     | 15                | 1813                          |                               | 1254.3                                |

## Type 5 Radar Waveform\_7

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 98.6                     | 10                | 1621                          | 1763                          | 393.388                               |
| 2     | 2                | 92.6                     | 10                | 1498                          |                               | 133.131                               |
| 3     | 2                | 84.2                     | 10                | 1592                          |                               | 625.68                                |
| 4     | 2                | 60.4                     | 10                | 1016                          |                               | 402.85                                |
| 5     | 2                | 85.3                     | 10                | 1486                          |                               | 39.91                                 |
| 6     | 1                | 76.8                     | 10                |                               |                               | 595.83                                |
| 7     | 1                | 51.1                     | 10                |                               |                               | 494.4                                 |
| 8     | 3                | 96.1                     | 10                | 1438                          | 1383                          | 605.73                                |
| 9     | 3                | 60                       | 10                | 1097                          | 1472                          | 593.17                                |
| 10    | 2                | 51.5                     | 10                | 1324                          |                               | 429.92                                |
| 11    | 2                | 72.1                     | 10                | 1104                          |                               | 224.16                                |
| 12    | 2                | 71.9                     | 10                | 1558                          |                               | 125.48                                |
| 13    | 2                | 76.1                     | 10                | 1823                          |                               | 425.15                                |
| 14    | 2                | 57.8                     | 10                | 1909                          |                               | 247.59                                |
| 15    | 2                | 52.2                     | 10                | 1441                          |                               | 706                                   |
| 16    | 3                | 95.2                     | 10                | 1121                          | 1896                          | 44                                    |



Type 5 Radar Waveform\_8

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 Spacing ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-----------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 91.1                     | 16                |                                   |                               | 532.972                               |
| 2     | 2                | 87                       | 16                | 1649                              |                               | 1061.991                              |
| 3     | 2                | 71.7                     | 16                | 1444                              |                               | 474.632                               |
| 4     | 1                | 71.5                     | 16                |                                   |                               | 946.303                               |
| 5     | 1                | 84.1                     | 16                |                                   |                               | 274.864                               |
| 6     | 1                | 78                       | 16                |                                   |                               | 543.365                               |
| 7     | 2                | 75.2                     | 16                | 1943                              |                               | 423.855                               |
| 8     | 2                | 69.3                     | 16                | 1902                              |                               | 161.886                               |
| 9     | 1                | 74.4                     | 16                |                                   |                               | 330.537                               |
| 10    | 1                | 88.2                     | 16                |                                   |                               | 580.018                               |
| 11    | 2                | 61.7                     | 16                | 1599                              |                               | 295.609                               |

Type 5 Radar Waveform\_9

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 74                       | 15                | 1336                          |                               | 74.855                                |
| 2     | 1                | 90.6                     | 15                |                               |                               | 595.768                               |
| 3     | 1                | 72                       | 15                |                               |                               | 180.105                               |
| 4     | 2                | 85.5                     | 15                | 1325                          |                               | 688.883                               |
| 5     | 3                | 94.2                     | 15                | 1250                          | 1007                          | 688.721                               |
| 6     | 1                | 95.1                     | 15                |                               |                               | 300.978                               |
| 7     | 1                | 61.8                     | 15                |                               |                               | 200.206                               |
| 8     | 3                | 90.9                     | 15                | 1541                          | 1826                          | 236.474                               |
| 9     | 1                | 54.6                     | 15                |                               |                               | 138.441                               |
| 10    | 2                | 92.6                     | 15                | 1038                          |                               | 673.639                               |
| 11    | 2                | 70.5                     | 15                | 1735                          |                               | 188.816                               |
| 12    | 1                | 83.4                     | 15                |                               |                               | 463.714                               |
| 13    | 2                | 92                       | 15                | 1056                          |                               | 229.532                               |
| 14    | 1                | 54.8                     | 15                |                               |                               | 152.699                               |
| 15    | 3                | 82.6                     | 15                | 1315                          | 1284                          | 544.447                               |
| 16    | 1                | 70.1                     | 15                |                               |                               | 590.265                               |
| 17    | 2                | 93.4                     | 15                | 1742                          |                               | 585.582                               |

Type 5 Radar Waveform\_10

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 61.1                     | 19                | 1501                          |                               | 116.404                               |
| 2     | 2                | 52.7                     | 19                | 1751                          |                               | 500.44                                |
| 3     | 3                | 76                       | 19                | 1518                          | 1094                          | 873.69                                |
| 4     | 2                | 65.1                     | 19                | 1186                          |                               | 968.53                                |
| 5     | 3                | 56.4                     | 19                | 1727                          | 1310                          | 647.59                                |
| 6     | 2                | 86.1                     | 19                | 1809                          |                               | 177.67                                |
| 7     | 3                | 62.2                     | 19                | 1297                          | 1560                          | 37.78                                 |
| 8     | 3                | 92.7                     | 19                | 1546                          | 1976                          | 184.87                                |
| 9     | 2                | 99.7                     | 19                | 1187                          |                               | 303.94                                |
| 10    | 1                | 50.8                     | 19                |                               |                               | 391                                   |

Type 5 Radar Waveform\_11

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 81.7                     | 8                 | 1555                          |                               | 1018.32                               |
| 2     | 3                | 74.4                     | 8                 | 1564                          | 1019                          | 1157.577                              |
| 3     | 3                | 50.4                     | 8                 | 1331                          | 1806                          | 613.733                               |
| 4     | 2                | 87.1                     | 8                 | 1825                          |                               | 275.61                                |
| 5     | 2                | 64.6                     | 8                 | 1434                          |                               | 1248.267                              |
| 6     | 3                | 86.4                     | 8                 | 1150                          | 1017                          | 1061.953                              |
| 7     | 2                | 93.4                     | 8                 | 1134                          |                               | 486.71                                |
| 8     | 3                | 50.1                     | 8                 | 1484                          | 1773                          | 931.867                               |
| 9     | 3                | 90                       | 8                 | 1348                          | 1763                          | 1127.633                              |

Type 5 Radar Waveform\_12

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 70                       | 9                 |                               |                               | 415.672                               |
| 2     | 2                | 67.6                     | 9                 | 1522                          |                               | 75.85                                 |
| 3     | 3                | 57                       | 9                 | 1398                          | 1428                          | 791.99                                |
| 4     | 1                | 56.9                     | 9                 |                               |                               | 49.85                                 |
| 5     | 2                | 57                       | 9                 | 1355                          |                               | 1061.31                               |
| 6     | 2                | 78.6                     | 9                 | 1171                          |                               | 15.51                                 |
| 7     | 2                | 92.9                     | 9                 | 1095                          |                               | 1006.93                               |
| 8     | 3                | 99.4                     | 9                 | 1570                          | 1942                          | 987.48                                |
| 9     | 3                | 89                       | 9                 | 1421                          | 1358                          | 79.47                                 |
| 10    | 3                | 94.4                     | 9                 | 1692                          | 1117                          | 1065.1                                |

Type 5 Radar Waveform\_13

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 56.1                     | 20                | 1994                          |                               | 172.399                               |
| 2     | 2                | 50.7                     | 20                | 1649                          |                               | 312.16                                |
| 3     | 2                | 50.3                     | 20                | 1496                          |                               | 366.34                                |
| 4     | 3                | 90.5                     | 20                | 1763                          | 1220                          | 115.39                                |
| 5     | 2                | 85.1                     | 20                | 1781                          |                               | 621.16                                |
| 6     | 2                | 60.9                     | 20                | 1110                          |                               | 136.23                                |
| 7     | 2                | 88.4                     | 20                | 1164                          |                               | 918.21                                |
| 8     | 2                | 58.8                     | 20                | 1716                          |                               | 814.81                                |
| 9     | 1                | 59                       | 20                |                               |                               | 112.91                                |
| 10    | 3                | 79.4                     | 20                | 1380                          | 1927                          | 851.22                                |
| 11    | 3                | 93.4                     | 20                | 1355                          | 1082                          | 724.1                                 |
| 12    | 2                | 95.4                     | 20                | 1253                          |                               | 668.5                                 |

## Type 5 Radar Waveform\_14

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 97.2                     | 15                | 1060                          | 1562                          | 95.444                                |
| 2     | 2                | 71.2                     | 15                | 1364                          |                               | 647.18                                |
| 3     | 2                | 79                       | 15                | 1071                          |                               | 61.42                                 |
| 4     | 2                | 92.7                     | 15                | 1671                          |                               | 593.3                                 |
| 5     | 2                | 57.7                     | 15                | 1275                          |                               | 735.82                                |
| 6     | 3                | 69.5                     | 15                | 1280                          | 1642                          | 170.75                                |
| 7     | 3                | 60.7                     | 15                | 1710                          | 1674                          | 671.2                                 |
| 8     | 2                | 64.7                     | 15                | 1335                          |                               | 490.42                                |
| 9     | 2                | 95.2                     | 15                | 1357                          |                               | 441.6                                 |
| 10    | 2                | 84.1                     | 15                | 1615                          |                               | 508.53                                |
| 11    | 2                | 76.9                     | 15                | 1424                          |                               | 108.28                                |
| 12    | 3                | 94.4                     | 15                | 1665                          | 1238                          | 534.2                                 |
| 13    | 2                | 73.5                     | 15                | 1304                          |                               | 237.98                                |
| 14    | 2                | 64.3                     | 15                | 1056                          |                               | 242.7                                 |
| 15    | 2                | 83.5                     | 15                | 1840                          |                               | 681.4                                 |

## Type 5 Radar Waveform\_15

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 73.7                     | 10                |                               |                               | 414.097                               |
| 2     | 1                | 68                       | 10                |                               |                               | 225.913                               |
| 3     | 2                | 63.9                     | 10                | 1013                          |                               | 405.595                               |
| 4     | 3                | 86.2                     | 10                | 1857                          | 1650                          | 669.553                               |
| 5     | 2                | 78.2                     | 10                | 1295                          |                               | 187.101                               |
| 6     | 2                | 97.3                     | 10                | 1108                          |                               | 494.138                               |
| 7     | 1                | 90.1                     | 10                |                               |                               | 508.216                               |
| 8     | 2                | 94.8                     | 10                | 1762                          |                               | 457.514                               |
| 9     | 2                | 57.8                     | 10                | 1809                          |                               | 554.221                               |
| 10    | 2                | 95.6                     | 10                | 1472                          |                               | 438.049                               |
| 11    | 1                | 56.5                     | 10                |                               |                               | 616.986                               |
| 12    | 2                | 59.4                     | 10                | 1874                          |                               | 270.784                               |
| 13    | 2                | 54.1                     | 10                | 1045                          |                               | 248.992                               |
| 14    | 1                | 76.3                     | 10                |                               |                               | 28.719                                |
| 15    | 2                | 66.8                     | 10                | 1725                          |                               | 537.347                               |
| 16    | 1                | 60.7                     | 10                |                               |                               | 535.465                               |
| 17    | 3                | 76.8                     | 10                | 1717                          | 1059                          | 120.282                               |

## Type 5 Radar Waveform\_16

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 78.7                     | 16                |                               |                               | 389.457                               |
| 2     | 2                | 78.8                     | 16                | 1886                          |                               | 109.013                               |
| 3     | 2                | 70.2                     | 16                | 1452                          |                               | 406.11                                |
| 4     | 3                | 52.2                     | 16                | 1998                          | 1760                          | 288.71                                |
| 5     | 2                | 53.8                     | 16                | 1851                          |                               | 719.63                                |
| 6     | 1                | 83.3                     | 16                |                               |                               | 633.26                                |
| 7     | 2                | 87.7                     | 16                | 1112                          |                               | 78.31                                 |
| 8     | 1                | 96.4                     | 16                |                               |                               | 124.84                                |
| 9     | 2                | 85.7                     | 16                | 1557                          |                               | 763.07                                |
| 10    | 1                | 78.3                     | 16                |                               |                               | 447.12                                |
| 11    | 2                | 98.5                     | 16                | 1238                          |                               | 615.72                                |
| 12    | 2                | 94.7                     | 16                | 1366                          |                               | 571.42                                |
| 13    | 1                | 78.1                     | 16                |                               |                               | 441.1                                 |
| 14    | 2                | 65.2                     | 16                | 1078                          |                               | 773                                   |
| 15    | 2                | 70.7                     | 16                | 1012                          |                               | 254.9                                 |



Type 5 Radar Waveform\_17

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 70.3                     | 12                | 1954                          |                               | 199.648                               |
| 2     | 1                | 99.7                     | 12                |                               |                               | 423.29                                |
| 3     | 2                | 91.2                     | 12                | 1175                          |                               | 109.4                                 |
| 4     | 3                | 88.1                     | 12                | 1129                          | 1436                          | 302.81                                |
| 5     | 2                | 63                       | 12                | 1977                          |                               | 1140.92                               |
| 6     | 3                | 58.7                     | 12                | 1261                          | 1551                          | 473.38                                |
| 7     | 1                | 69.3                     | 12                |                               |                               | 782.96                                |
| 8     | 2                | 69.1                     | 12                | 1914                          |                               | 116.6                                 |
| 9     | 3                | 59.4                     | 12                | 1144                          | 1124                          | 564.8                                 |
| 10    | 1                | 59.4                     | 12                |                               |                               | 71.8                                  |

Type 5 Radar Waveform\_18

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 69                       | 17                | 1795                          |                               | 112.122                               |
| 2     | 1                | 54.4                     | 17                |                               |                               | 473.411                               |
| 3     | 2                | 78.1                     | 17                | 1308                          |                               | 16.422                                |
| 4     | 2                | 52.8                     | 17                | 1971                          |                               | 217.603                               |
| 5     | 1                | 61.7                     | 17                |                               |                               | 623.344                               |
| 6     | 1                | 54.8                     | 17                |                               |                               | 186.605                               |
| 7     | 1                | 97                       | 17                |                               |                               | 537.546                               |
| 8     | 1                | 52.7                     | 17                |                               |                               | 100.267                               |
| 9     | 3                | 71.3                     | 17                | 1215                          | 1786                          | 63.618                                |
| 10    | 2                | 94.7                     | 17                | 1559                          |                               | 489.299                               |
| 11    | 2                | 53.9                     | 17                | 1102                          |                               | 34.351                                |
| 12    | 3                | 61.5                     | 17                | 1344                          | 1460                          | 35.622                                |
| 13    | 2                | 63                       | 17                | 1569                          |                               | 478.913                               |
| 14    | 3                | 56.8                     | 17                | 1943                          | 1915                          | 133.044                               |
| 15    | 2                | 57.6                     | 17                | 1783                          |                               | 285.955                               |
| 16    | 2                | 64.3                     | 17                | 1802                          |                               | 600.016                               |
| 17    | 2                | 99.4                     | 17                | 1396                          |                               | 143.137                               |
| 18    | 2                | 73                       | 17                | 1480                          |                               | 129.058                               |
| 19    | 2                | 55.2                     | 17                | 1196                          |                               | 551.679                               |

Type 5 Radar Waveform\_19

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 88.5                     | 13                | 1675                          |                               | 55.355                                |
| 2     | 1                | 76.7                     | 13                |                               |                               | 268.602                               |
| 3     | 2                | 94.3                     | 13                | 1758                          |                               | 556.385                               |
| 4     | 3                | 81.6                     | 13                | 1400                          | 1686                          | 328.523                               |
| 5     | 1                | 96.2                     | 13                |                               |                               | 362.621                               |
| 6     | 1                | 97.3                     | 13                |                               |                               | 35.948                                |
| 7     | 2                | 74                       | 13                | 1104                          |                               | 660.356                               |
| 8     | 3                | 98.9                     | 13                | 1931                          | 1459                          | 348.754                               |
| 9     | 3                | 81.3                     | 13                | 1713                          | 1786                          | 27.631                                |
| 10    | 2                | 58.8                     | 13                | 1025                          |                               | 269.859                               |
| 11    | 3                | 70.6                     | 13                | 1854                          | 1256                          | 71.886                                |
| 12    | 3                | 71.2                     | 13                | 1855                          | 1087                          | 59.944                                |
| 13    | 2                | 76.3                     | 13                | 1913                          |                               | 524.222                               |
| 14    | 1                | 55                       | 13                |                               |                               | 530.719                               |
| 15    | 1                | 96.9                     | 13                |                               |                               | 71.497                                |
| 16    | 2                | 70.1                     | 13                | 1836                          |                               | 331.365                               |
| 17    | 2                | 85.3                     | 13                | 1553                          |                               | 591.782                               |

## Type 5 Radar Waveform\_20

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 98.4                     | 15                | 1819                          | 1027                          | 450.533                               |
| 2     | 3                | 61                       | 15                | 1123                          | 1092                          | 348.913                               |
| 3     | 1                | 94.1                     | 15                |                               |                               | 171.357                               |
| 4     | 2                | 68.5                     | 15                | 1106                          |                               | 224.2                                 |
| 5     | 2                | 81.3                     | 15                | 1329                          |                               | 610.173                               |
| 6     | 1                | 58.2                     | 15                |                               |                               | 357.997                               |
| 7     | 2                | 66.9                     | 15                | 1390                          |                               | 306.13                                |
| 8     | 3                | 66.9                     | 15                | 1787                          | 1043                          | 529.713                               |
| 9     | 2                | 78.7                     | 15                | 1995                          |                               | 550.597                               |
| 10    | 2                | 80.6                     | 15                | 1244                          |                               | 393.53                                |
| 11    | 3                | 66.9                     | 15                | 1293                          | 1075                          | 354.793                               |
| 12    | 1                | 73                       | 15                |                               |                               | 99.347                                |
| 13    | 1                | 80.4                     | 15                |                               |                               | 92.79                                 |
| 14    | 2                | 67.2                     | 15                | 1032                          |                               | 16.343                                |
| 15    | 1                | 64.9                     | 15                |                               |                               | 58.177                                |
| 16    | 2                | 75.7                     | 15                | 1561                          |                               | 152.7                                 |
| 17    | 2                | 62.4                     | 15                | 1954                          |                               | 25.133                                |
| 18    | 2                | 67.4                     | 15                | 1803                          |                               | 380.567                               |

## Type 5 Radar Waveform\_21

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 69.1                     | 20                | 1332                          | 1974                          | 595.883                               |
| 2     | 2                | 85.2                     | 20                | 1131                          |                               | 71.267                                |
| 3     | 2                | 66.2                     | 20                | 1784                          |                               | 566.667                               |
| 4     | 2                | 72.3                     | 20                | 1632                          |                               | 399.98                                |
| 5     | 3                | 86.2                     | 20                | 1183                          | 1374                          | 433.393                               |
| 6     | 3                | 65.8                     | 20                | 1280                          | 1822                          | 643.467                               |
| 7     | 2                | 78.6                     | 20                | 1835                          |                               | 427.78                                |
| 8     | 1                | 72.2                     | 20                |                               |                               | 590.873                               |
| 9     | 1                | 67.2                     | 20                |                               |                               | 57.197                                |
| 10    | 3                | 50.4                     | 20                | 1208                          | 1318                          | 641.82                                |
| 11    | 1                | 70.3                     | 20                |                               |                               | 80.003                                |
| 12    | 1                | 84.9                     | 20                |                               |                               | 659.437                               |
| 13    | 3                | 71.3                     | 20                | 1232                          | 1237                          | 332.99                                |
| 14    | 1                | 90                       | 20                |                               |                               | 60.483                                |
| 15    | 1                | 98.3                     | 20                |                               |                               | 67.097                                |
| 16    | 2                | 63.4                     | 20                | 1374                          |                               | 206.3                                 |
| 17    | 1                | 56.7                     | 20                |                               |                               | 643.633                               |
| 18    | 2                | 58.9                     | 20                | 1234                          |                               | 247.267                               |

## Type 5 Radar Waveform\_22

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 51.1                     | 10                |                               |                               | 288.923                               |
| 2     | 2                | 96                       | 10                | 1497                          |                               | 712.1                                 |
| 3     | 3                | 54.6                     | 10                | 1885                          | 1769                          | 336.02                                |
| 4     | 2                | 74.4                     | 10                | 1145                          |                               | 916.55                                |
| 5     | 2                | 68.6                     | 10                | 1556                          |                               | 29.61                                 |
| 6     | 1                | 58.5                     | 10                |                               |                               | 606.92                                |
| 7     | 1                | 97.9                     | 10                |                               |                               | 702.28                                |
| 8     | 2                | 72.9                     | 10                | 1677                          |                               | 80.58                                 |
| 9     | 3                | 50.1                     | 10                | 1856                          | 1709                          | 280.48                                |
| 10    | 2                | 70                       | 10                | 1173                          |                               | 529.08                                |
| 11    | 1                | 96                       | 10                |                               |                               | 687                                   |
| 12    | 2                | 65.6                     | 10                | 1297                          |                               | 470.6                                 |

Type 5 Radar Waveform\_23

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 65.1                     | 17                | 1441                          |                               | 581.236                               |
| 2     | 3                | 53.4                     | 17                | 1532                          | 1284                          | 71.272                                |
| 3     | 3                | 96                       | 17                | 1078                          | 1435                          | 663                                   |
| 4     | 3                | 65.6                     | 17                | 1270                          | 1715                          | 164.08                                |
| 5     | 2                | 100                      | 17                | 1968                          |                               | 628.5                                 |
| 6     | 3                | 81.9                     | 17                | 1113                          | 1474                          | 599.97                                |
| 7     | 3                | 79.8                     | 17                | 1327                          | 1340                          | 99.84                                 |
| 8     | 2                | 69.8                     | 17                | 1915                          |                               | 664.14                                |
| 9     | 2                | 68.8                     | 17                | 1337                          |                               | 615.32                                |
| 10    | 1                | 62.8                     | 17                |                               |                               | 215.88                                |
| 11    | 2                | 60.4                     | 17                | 1999                          |                               | 533.15                                |
| 12    | 3                | 94.4                     | 17                | 1867                          | 1140                          | 225.52                                |
| 13    | 2                | 74.9                     | 17                | 1672                          |                               | 436.97                                |
| 14    | 1                | 74.2                     | 17                |                               |                               | 302                                   |
| 15    | 3                | 94.8                     | 17                | 1089                          | 1303                          | 735.9                                 |
| 16    | 2                | 75.6                     | 17                | 1550                          |                               | 277                                   |

Type 5 Radar Waveform\_24

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 50.6                     | 15                | 1917                          |                               | 829.811                               |
| 2     | 2                | 99.3                     | 15                | 1423                          |                               | 978.697                               |
| 3     | 3                | 94.6                     | 15                | 1566                          | 1851                          | 170.103                               |
| 4     | 1                | 52.7                     | 15                |                               |                               | 945.34                                |
| 5     | 1                | 84                       | 15                |                               |                               | 274.707                               |
| 6     | 2                | 85.8                     | 15                | 1339                          |                               | 387.933                               |
| 7     | 2                | 87.7                     | 15                | 1937                          |                               | 280.01                                |
| 8     | 1                | 66.1                     | 15                |                               |                               | 976.167                               |
| 9     | 1                | 55.2                     | 15                |                               |                               | 794.433                               |

Type 5 Radar Waveform\_25

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 79                       | 14                | 1701                          | 1668                          | 117.506                               |
| 2     | 2                | 83                       | 14                | 1995                          |                               | 852.4                                 |
| 3     | 3                | 52.3                     | 14                | 1549                          | 1558                          | 428.04                                |
| 4     | 1                | 58.6                     | 14                |                               |                               | 22.25                                 |
| 5     | 2                | 55.8                     | 14                | 1126                          |                               | 573.34                                |
| 6     | 3                | 89                       | 14                | 1553                          | 1024                          | 335.56                                |
| 7     | 3                | 59.1                     | 14                | 1571                          | 1874                          | 504.19                                |
| 8     | 2                | 78.8                     | 14                | 1598                          |                               | 611.61                                |
| 9     | 3                | 89.8                     | 14                | 1987                          | 1319                          | 885.94                                |
| 10    | 2                | 64.6                     | 14                | 1020                          |                               | 16.13                                 |
| 11    | 2                | 70.1                     | 14                | 1412                          |                               | 879.3                                 |
| 12    | 1                | 50.7                     | 14                |                               |                               | 837                                   |



Type 5 Radar Waveform\_26

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 80.9                     | 7                 | 1407                          |                               | 890.097                               |
| 2     | 2                | 83.9                     | 7                 | 1561                          |                               | 133.93                                |
| 3     | 2                | 62.2                     | 7                 | 1968                          |                               | 132.32                                |
| 4     | 1                | 73.3                     | 7                 |                               |                               | 158.97                                |
| 5     | 1                | 94.2                     | 7                 |                               |                               | 501.8                                 |
| 6     | 2                | 70.3                     | 7                 | 1197                          |                               | 687.6                                 |
| 7     | 3                | 60.7                     | 7                 | 1640                          | 1471                          | 85.93                                 |
| 8     | 2                | 76.8                     | 7                 | 1653                          |                               | 821.99                                |
| 9     | 3                | 75.5                     | 7                 | 2000                          | 1938                          | 627.55                                |
| 10    | 1                | 97.3                     | 7                 |                               |                               | 510.47                                |
| 11    | 2                | 73.3                     | 7                 | 1475                          |                               | 516.8                                 |
| 12    | 2                | 76                       | 7                 | 1762                          |                               | 298.4                                 |

Type 5 Radar Waveform\_27

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 75.5                     | 5                 | 1383                          | 1854                          | 1033.85                               |
| 2     | 2                | 51.8                     | 5                 | 1310                          |                               | 195.791                               |
| 3     | 2                | 100                      | 5                 | 1786                          |                               | 585.332                               |
| 4     | 1                | 96.8                     | 5                 |                               |                               | 242.393                               |
| 5     | 1                | 56.3                     | 5                 |                               |                               | 240.194                               |
| 6     | 2                | 78.3                     | 5                 | 1593                          |                               | 273.405                               |
| 7     | 2                | 98.1                     | 5                 | 1994                          |                               | 618.435                               |
| 8     | 3                | 71                       | 5                 | 1380                          | 1292                          | 490.306                               |
| 9     | 2                | 76.4                     | 5                 | 1377                          |                               | 1060.387                              |
| 10    | 1                | 65.2                     | 5                 |                               |                               | 611.718                               |
| 11    | 2                | 87.3                     | 5                 | 1026                          |                               | 594.109                               |

Type 5 Radar Waveform\_28

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 80.1                     | 10                | 1144                          | 1372                          | 486.727                               |
| 2     | 2                | 50.4                     | 10                | 1938                          |                               | 257.01                                |
| 3     | 2                | 97.3                     | 10                | 1213                          |                               | 453.315                               |
| 4     | 3                | 95.4                     | 10                | 1888                          | 1006                          | 677.593                               |
| 5     | 3                | 90.6                     | 10                | 1747                          | 1833                          | 322.341                               |
| 6     | 2                | 82.4                     | 10                | 1702                          |                               | 314.268                               |
| 7     | 1                | 74.9                     | 10                |                               |                               | 1.096                                 |
| 8     | 2                | 50.9                     | 10                | 1304                          |                               | 391.214                               |
| 9     | 3                | 66.9                     | 10                | 1747                          | 1069                          | 254.791                               |
| 10    | 1                | 61.9                     | 10                |                               |                               | 411.089                               |
| 11    | 2                | 55.6                     | 10                | 1532                          |                               | 600.716                               |
| 12    | 2                | 55.2                     | 10                | 1260                          |                               | 204.314                               |
| 13    | 2                | 74.5                     | 10                | 1669                          |                               | 676.192                               |
| 14    | 1                | 50.8                     | 10                |                               |                               | 252.969                               |
| 15    | 2                | 71.6                     | 10                | 1505                          |                               | 508.747                               |
| 16    | 2                | 63.5                     | 10                | 1681                          |                               | 531.265                               |
| 17    | 1                | 93.6                     | 10                |                               |                               | 635.482                               |

Type 5 Radar Waveform\_29

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 83.1                     | 9                 | 1840                          |                               | 288.035                               |
| 2     | 2                | 66.5                     | 9                 | 1673                          |                               | 387.67                                |
| 3     | 2                | 59.6                     | 9                 | 1324                          |                               | 825.8                                 |
| 4     | 3                | 88.3                     | 9                 | 1331                          | 1714                          | 499.89                                |
| 5     | 1                | 67.4                     | 9                 |                               |                               | 63.9                                  |
| 6     | 2                | 91.8                     | 9                 | 1688                          |                               | 882.68                                |
| 7     | 2                | 97.4                     | 9                 | 1371                          |                               | 510.72                                |
| 8     | 1                | 54.4                     | 9                 |                               |                               | 488.03                                |
| 9     | 2                | 95.3                     | 9                 | 1234                          |                               | 898.75                                |
| 10    | 2                | 78.6                     | 9                 | 1213                          |                               | 418.53                                |
| 11    | 1                | 62.4                     | 9                 |                               |                               | 506.8                                 |
| 12    | 1                | 56.3                     | 9                 |                               |                               | 2.8                                   |

Type 5 Radar Waveform\_30

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 95.2                     | 6                 | 1073                          | 1694                          | 530.757                               |
| 2     | 2                | 56.2                     | 6                 | 1670                          |                               | 365.421                               |
| 3     | 2                | 72.5                     | 6                 | 1113                          |                               | 185.102                               |
| 4     | 3                | 72.2                     | 6                 | 1504                          | 1899                          | 357.653                               |
| 5     | 3                | 97.8                     | 6                 | 1627                          | 1729                          | 659.434                               |
| 6     | 3                | 56.3                     | 6                 | 1190                          | 1871                          | 596.175                               |
| 7     | 2                | 76.2                     | 6                 | 1968                          |                               | 176.165                               |
| 8     | 2                | 66.5                     | 6                 | 1316                          |                               | 442.186                               |
| 9     | 3                | 75.8                     | 6                 | 1952                          | 1332                          | 562.547                               |
| 10    | 2                | 77.6                     | 6                 | 1799                          |                               | 326.918                               |
| 11    | 2                | 71.3                     | 6                 | 1519                          |                               | 475.909                               |

## Radar Type 6 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5491                | 1                             | 16      | 5510                | 1                             |
| 2                        | 5491                | 1                             | 17      | 5510                | 1                             |
| 3                        | 5491                | 1                             | 18      | 5510                | 1                             |
| 4                        | 5491                | 1                             | 19      | 5511                | 1                             |
| 5                        | 5500                | 1                             | 20      | 5511                | 1                             |
| 6                        | 5500                | 1                             | 21      | 5511                | 1                             |
| 7                        | 5500                | 1                             | 22      | 5511                | 1                             |
| 8                        | 5500                | 1                             | 23      | 5520                | 1                             |
| 9                        | 5509                | 1                             | 24      | 5520                | 1                             |
| 10                       | 5509                | 1                             | 25      | 5520                | 1                             |
| 11                       | 5509                | 1                             | 26      | 5520                | 1                             |
| 12                       | 5509                | 1                             | 27      | 5529                | 1                             |
| 13                       | 5510                | 1                             | 28      | 5529                | 1                             |
| 14                       | 5510                | 1                             | 29      | 5529                | 1                             |
| 15                       | 5510                | 1                             | 30      | 5529                | 1                             |
| Detection Percentage (%) |                     |                               |         |                     | 100%                          |

| Radar waveform #1 |                 |                  | Radar waveform #2 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 13                | 5495            | 39               | 2                 | 5495            | 6                |
| 22                | 5510            | 66               | 6                 | 5493            | 18               |
| 26                | 5493            | 78               | 15                | 5492            | 45               |
| 31                | 5521            | 93               | 16                | 5529            | 48               |
| 35                | 5524            | 105              | 19                | 5497            | 57               |
| 51                | 5498            | 153              | 22                | 5513            | 66               |
| 54                | 5491            | 162              | 27                | 5510            | 81               |
| 71                | 5528            | 213              | 36                | 5512            | 108              |
| 87                | 5502            | 261              | 52                | 5491            | 156              |
| --                | --              | --               | 64                | 5518            | 192              |
| --                | --              | --               | 68                | 5501            | 204              |
| --                | --              | --               | 97                | 5528            | 291              |

| Radar waveform #3 |                 |                  | Radar waveform #4 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 7                 | 5494            | 21               | 4                 | 5515            | 12               |
| 29                | 5503            | 87               | 7                 | 5519            | 21               |
| 30                | 5525            | 90               | 8                 | 5495            | 24               |
| 32                | 5517            | 96               | 18                | 5496            | 54               |
| 42                | 5500            | 126              | 30                | 5524            | 90               |
| 51                | 5512            | 153              | 32                | 5525            | 96               |
| 52                | 5497            | 156              | 42                | 5530            | 126              |
| 54                | 5492            | 162              | 44                | 5529            | 132              |
| 79                | 5495            | 237              | 53                | 5512            | 159              |
| 100               | 5508            | 300              | 56                | 5517            | 168              |
| --                | --              | --               | 66                | 5528            | 198              |
| --                | --              | --               | 69                | 5503            | 207              |



| Radar waveform #5 |                 |                  | Radar waveform #6 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 18                | 5496            | 54               | 25                | 5518            | 75               |
| 32                | 5510            | 96               | 29                | 5523            | 87               |
| 63                | 5524            | 189              | 33                | 5504            | 99               |
| 65                | 5527            | 195              | 40                | 5528            | 120              |
| 76                | 5521            | 228              | 44                | 5502            | 132              |
| 83                | 5498            | 249              | 52                | 5503            | 156              |
| 86                | 5530            | 258              | 61                | 5520            | 183              |
| 90                | 5502            | 270              | 76                | 5513            | 228              |

| Radar waveform #7 |                 |                  | Radar waveform #8 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 4                 | 5516            | 12               | 10                | 5495            | 30               |
| 7                 | 5511            | 21               | 16                | 5529            | 48               |
| 19                | 5493            | 57               | 25                | 5525            | 75               |
| 29                | 5527            | 87               | 34                | 5509            | 102              |
| 38                | 5515            | 114              | 41                | 5494            | 123              |
| 49                | 5494            | 147              | 60                | 5520            | 180              |
| 63                | 5523            | 189              | 71                | 5492            | 213              |
| 67                | 5507            | 201              | 84                | 5490            | 252              |
| 71                | 5514            | 213              | 88                | 5526            | 264              |
| 80                | 5499            | 240              | --                | --              | --               |
| 87                | 5512            | 261              | --                | --              | --               |

| Radar waveform #9 |                 |                  | Radar waveform #10 |                 |                  |
|-------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 18                | 5494            | 54               | 7                  | 5511            | 21               |
| 37                | 5509            | 111              | 59                 | 5515            | 177              |
| 62                | 5529            | 186              | 65                 | 5508            | 195              |
| 64                | 5503            | 192              | 71                 | 5517            | 213              |
| 67                | 5517            | 201              | 76                 | 5530            | 228              |
| 70                | 5493            | 210              | 84                 | 5496            | 252              |
| 79                | 5514            | 237              | 85                 | 5501            | 255              |
| 92                | 5505            | 276              | 87                 | 5494            | 261              |
| --                | --              | --               | 97                 | 5492            | 291              |

| Radar waveform #11 |                 |                  | Radar waveform #12 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 1                  | 5525            | 3                | 4                  | 5513            | 12               |
| 9                  | 5491            | 27               | 12                 | 5502            | 36               |
| 16                 | 5502            | 48               | 13                 | 5520            | 39               |
| 20                 | 5528            | 60               | 20                 | 5516            | 60               |
| 24                 | 5504            | 72               | 21                 | 5498            | 63               |
| 49                 | 5509            | 147              | 38                 | 5514            | 114              |
| 53                 | 5522            | 159              | 58                 | 5509            | 174              |
| 68                 | 5521            | 204              | 74                 | 5497            | 222              |
| 75                 | 5518            | 225              | 77                 | 5528            | 231              |
| 86                 | 5512            | 258              | 81                 | 5496            | 243              |
| --                 | --              | --               | 89                 | 5510            | 267              |
| --                 | --              | --               | 95                 | 5517            | 285              |
| --                 | --              | --               | 96                 | 5500            | 288              |

| Radar waveform #13 |                 |                  | Radar waveform #14 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 1                  | 5509            | 3                | 12                 | 5514            | 36               |
| 15                 | 5490            | 45               | 27                 | 5490            | 81               |
| 65                 | 5518            | 195              | 46                 | 5510            | 138              |
| 88                 | 5492            | 264              | 67                 | 5517            | 201              |
| 93                 | 5523            | 279              | 70                 | 5520            | 210              |
| --                 | --              | --               | 73                 | 5496            | 219              |
| --                 | --              | --               | 89                 | 5499            | 267              |
| --                 | --              | --               | 91                 | 5522            | 273              |
| --                 | --              | --               | 97                 | 5508            | 291              |
| --                 | --              | --               | 99                 | 5509            | 297              |

| Radar waveform #15 |                 |                  | Radar waveform #16 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 15                 | 5503            | 45               | 11                 | 5523            | 33               |
| 34                 | 5500            | 102              | 30                 | 5506            | 90               |
| 37                 | 5528            | 111              | 37                 | 5494            | 111              |
| 39                 | 5518            | 117              | 56                 | 5528            | 168              |
| 43                 | 5490            | 129              | 59                 | 5514            | 177              |
| 45                 | 5505            | 135              | 73                 | 5512            | 219              |
| --                 | --              | --               | 91                 | 5508            | 273              |
| --                 | --              | --               | 98                 | 5492            | 294              |

| Radar waveform #17 |                 |                  | Radar waveform #18 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 26                 | 5509            | 78               | 1                  | 5522            | 3                |
| 28                 | 5520            | 84               | 34                 | 5508            | 102              |
| 38                 | 5499            | 114              | 51                 | 5526            | 153              |
| 57                 | 5529            | 171              | 61                 | 5497            | 183              |
| 72                 | 5530            | 216              | 76                 | 5524            | 228              |
| 81                 | 5493            | 243              | 79                 | 5517            | 237              |
| 83                 | 5512            | 249              | 85                 | 5518            | 255              |
| --                 | --              | --               | 89                 | 5506            | 267              |
| --                 | --              | --               | 90                 | 5504            | 270              |
| --                 | --              | --               | 95                 | 5510            | 285              |

| Radar waveform #19 |                 |                  | Radar waveform #20 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 3                  | 5529            | 9                | 3                  | 5500            | 9                |
| 5                  | 5530            | 15               | 38                 | 5523            | 114              |
| 20                 | 5502            | 60               | 45                 | 5498            | 135              |
| 28                 | 5519            | 84               | 80                 | 5524            | 240              |
| 30                 | 5523            | 90               | 81                 | 5492            | 243              |
| 32                 | 5497            | 96               | --                 | --              | --               |
| 38                 | 5508            | 114              | --                 | --              | --               |
| 43                 | 5522            | 129              | --                 | --              | --               |
| 66                 | 5521            | 198              | --                 | --              | --               |

| Radar waveform #21 |                 |                  | Radar waveform #22 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 22                 | 5492            | 66               | 16                 | 5524            | 48               |
| 24                 | 5519            | 72               | 28                 | 5512            | 84               |
| 45                 | 5520            | 135              | 31                 | 5513            | 93               |
| 49                 | 5502            | 147              | 41                 | 5526            | 123              |
| 56                 | 5493            | 168              | 49                 | 5528            | 147              |
| 79                 | 5509            | 237              | 50                 | 5505            | 150              |
| --                 | --              | --               | 80                 | 5520            | 240              |
| --                 | --              | --               | 81                 | 5517            | 243              |

| Radar waveform #23 |                 |                  | Radar waveform #24 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 12                 | 5503            | 36               | 6                  | 5507            | 18               |
| 16                 | 5516            | 48               | 31                 | 5494            | 93               |
| 26                 | 5526            | 78               | 34                 | 5529            | 102              |
| 52                 | 5498            | 156              | 35                 | 5522            | 105              |
| 68                 | 5515            | 204              | 43                 | 5530            | 129              |
| 71                 | 5524            | 213              | 47                 | 5498            | 141              |
| 99                 | 5521            | 297              | 48                 | 5501            | 144              |
| --                 | --              | --               | 50                 | 5528            | 150              |
| --                 | --              | --               | 61                 | 5497            | 183              |
| --                 | --              | --               | 63                 | 5491            | 189              |
| --                 | --              | --               | 68                 | 5506            | 204              |
| --                 | --              | --               | 72                 | 5520            | 216              |
| --                 | --              | --               | 96                 | 5492            | 288              |

| Radar waveform #25 |                 |                  | Radar waveform #26 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 5                  | 5521            | 15               | 1                  | 5497            | 3                |
| 19                 | 5506            | 57               | 11                 | 5513            | 33               |
| 22                 | 5494            | 66               | 21                 | 5525            | 63               |
| 46                 | 5520            | 138              | 25                 | 5514            | 75               |
| 48                 | 5503            | 144              | 31                 | 5498            | 93               |
| 68                 | 5505            | 204              | 45                 | 5510            | 135              |
| 80                 | 5527            | 240              | 53                 | 5502            | 159              |
| 100                | 5508            | 300              | 67                 | 5520            | 201              |
| --                 | --              | --               | 81                 | 5508            | 243              |
| --                 | --              | --               | 96                 | 5516            | 288              |

| Radar waveform #27 |                 |                  | Radar waveform #28 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 25                 | 5509            | 75               | 43                 | 5516            | 129              |
| 28                 | 5530            | 84               | 62                 | 5503            | 186              |
| 39                 | 5499            | 117              | 73                 | 5523            | 219              |
| 48                 | 5493            | 144              | 76                 | 5509            | 228              |
| 73                 | 5498            | 219              | --                 | --              | --               |

| Radar waveform #29 |                 |                  | Radar waveform #30 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 13                 | 5530            | 39               | 31                 | 5497            | 93               |
| 17                 | 5517            | 51               | 43                 | 5523            | 129              |
| 19                 | 5504            | 57               | 47                 | 5509            | 141              |
| 26                 | 5514            | 78               | 52                 | 5498            | 156              |
| 31                 | 5491            | 93               | 54                 | 5510            | 162              |
| 49                 | 5497            | 147              | 59                 | 5508            | 177              |
| 71                 | 5501            | 213              | 62                 | 5530            | 186              |
| 95                 | 5490            | 285              | 95                 | 5517            | 285              |
| 98                 | 5494            | 294              | --                 | --              | --               |

|               |                                                                    |                   |            |
|---------------|--------------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                     | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                          | Relative Humidity | 65%        |
| Test Site     | AC1                                                                | Test Date         | 2020/04/09 |
| Test Item     | Radar Statistical Performance Check (802.11ax-HE80 mode – 5530MHz) |                   |            |

#### Radar Type 1 - Radar Statistical Performance

| Trail # | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|---------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1       | 5491                | 1                   | 898      | 59             | 1                             |
| 2       | 5491                | 1                   | 618      | 86             | 1                             |
| 3       | 5500                | 1                   | 598      | 89             | 1                             |
| 4       | 5500                | 1                   | 538      | 98             | 1                             |
| 5       | 5509                | 1                   | 758      | 70             | 1                             |
| 6       | 5509                | 1                   | 678      | 78             | 1                             |
| 7       | 5510                | 1                   | 798      | 67             | 1                             |
| 8       | 5510                | 1                   | 718      | 74             | 1                             |
| 9       | 5511                | 1                   | 858      | 62             | 1                             |
| 10      | 5511                | 1                   | 558      | 95             | 1                             |
| 11      | 5520                | 1                   | 938      | 57             | 1                             |
| 12      | 5520                | 1                   | 818      | 65             | 1                             |
| 13      | 5529                | 1                   | 638      | 83             | 1                             |
| 14      | 5529                | 1                   | 738      | 72             | 1                             |
| 15      | 5530                | 1                   | 878      | 61             | 1                             |
| 16      | 5530                | 1                   | 2442     | 22             | 1                             |
| 17      | 5531                | 1                   | 1743     | 31             | 1                             |
| 18      | 5531                | 1                   | 2877     | 19             | 1                             |
| 19      | 5540                | 1                   | 1147     | 46             | 1                             |
| 20      | 5540                | 1                   | 814      | 65             | 1                             |
| 21      | 5549                | 1                   | 2793     | 19             | 1                             |
| 22      | 5549                | 1                   | 1068     | 50             | 1                             |
| 23      | 5550                | 1                   | 1966     | 27             | 1                             |
| 24      | 5550                | 1                   | 2867     | 19             | 1                             |
| 25      | 5551                | 1                   | 1680     | 32             | 1                             |
| 26      | 5551                | 1                   | 1978     | 27             | 1                             |



| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 27                       | 5560                | 1                   | 2668     | 20             | 1                             |
| 28                       | 5560                | 1                   | 2220     | 24             | 1                             |
| 29                       | 5569                | 1                   | 2671     | 20             | 1                             |
| 30                       | 5569                | 1                   | 2327     | 23             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 100%                          |

## Radar Type 2 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 1.9                 | 190      | 26             | 1                             |
| 2                        | 5491                | 2.7                 | 195      | 26             | 0                             |
| 3                        | 5500                | 2.2                 | 173      | 26             | 1                             |
| 4                        | 5500                | 4.4                 | 221      | 28             | 0                             |
| 5                        | 5509                | 4.8                 | 213      | 23             | 0                             |
| 6                        | 5509                | 3.0                 | 189      | 25             | 1                             |
| 7                        | 5510                | 3.4                 | 222      | 26             | 1                             |
| 8                        | 5510                | 1.0                 | 169      | 29             | 1                             |
| 9                        | 5511                | 2.0                 | 217      | 29             | 0                             |
| 10                       | 5511                | 1.5                 | 170      | 24             | 1                             |
| 11                       | 5520                | 3.4                 | 224      | 26             | 1                             |
| 12                       | 5520                | 3.4                 | 222      | 23             | 1                             |
| 13                       | 5529                | 3.5                 | 223      | 27             | 1                             |
| 14                       | 5529                | 1.4                 | 221      | 25             | 1                             |
| 15                       | 5530                | 1.5                 | 188      | 27             | 1                             |
| 16                       | 5530                | 4.4                 | 193      | 25             | 1                             |
| 17                       | 5531                | 2.5                 | 209      | 23             | 1                             |
| 18                       | 5531                | 3.0                 | 173      | 26             | 1                             |
| 19                       | 5540                | 3.0                 | 186      | 28             | 1                             |
| 20                       | 5540                | 1.3                 | 221      | 23             | 1                             |
| 21                       | 5549                | 2.7                 | 158      | 24             | 1                             |
| 22                       | 5549                | 3.1                 | 182      | 25             | 1                             |
| 23                       | 5550                | 4.5                 | 201      | 27             | 1                             |
| 24                       | 5550                | 2.1                 | 200      | 26             | 1                             |
| 25                       | 5551                | 4.7                 | 187      | 26             | 1                             |
| 26                       | 5551                | 2.5                 | 195      | 23             | 1                             |
| 27                       | 5560                | 1.1                 | 152      | 23             | 1                             |
| 28                       | 5560                | 4.9                 | 227      | 26             | 1                             |
| 29                       | 5569                | 1.1                 | 199      | 24             | 1                             |
| 30                       | 5569                | 3.8                 | 227      | 28             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 86.7%                         |

## Radar Type 3 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 6.7                 | 309      | 17             | 0                             |
| 2                        | 5491                | 7.5                 | 206      | 16             | 1                             |
| 3                        | 5500                | 6.1                 | 431      | 17             | 1                             |
| 4                        | 5500                | 9.4                 | 244      | 17             | 1                             |
| 5                        | 5509                | 9.5                 | 346      | 18             | 1                             |
| 6                        | 5509                | 10.0                | 416      | 16             | 1                             |
| 7                        | 5510                | 9.8                 | 266      | 17             | 1                             |
| 8                        | 5510                | 7.0                 | 449      | 17             | 0                             |
| 9                        | 5511                | 9.0                 | 269      | 17             | 1                             |
| 10                       | 5511                | 6.2                 | 355      | 18             | 1                             |
| 11                       | 5520                | 9.7                 | 479      | 18             | 1                             |
| 12                       | 5520                | 7.6                 | 388      | 18             | 0                             |
| 13                       | 5529                | 9.8                 | 298      | 17             | 1                             |
| 14                       | 5529                | 10.0                | 263      | 17             | 1                             |
| 15                       | 5530                | 8.7                 | 416      | 17             | 1                             |
| 16                       | 5530                | 8.8                 | 271      | 17             | 1                             |
| 17                       | 5531                | 6.4                 | 309      | 17             | 1                             |
| 18                       | 5531                | 9.2                 | 244      | 17             | 0                             |
| 19                       | 5540                | 10.0                | 225      | 17             | 1                             |
| 20                       | 5540                | 8.8                 | 440      | 17             | 1                             |
| 21                       | 5549                | 7.3                 | 222      | 16             | 1                             |
| 22                       | 5549                | 7.2                 | 434      | 18             | 1                             |
| 23                       | 5550                | 9.2                 | 343      | 16             | 1                             |
| 24                       | 5550                | 10.0                | 474      | 17             | 1                             |
| 25                       | 5551                | 8.9                 | 401      | 16             | 1                             |
| 26                       | 5551                | 6.6                 | 422      | 16             | 0                             |
| 27                       | 5560                | 9.0                 | 241      | 16             | 1                             |
| 28                       | 5560                | 8.4                 | 378      | 16             | 1                             |
| 29                       | 5569                | 6.1                 | 212      | 18             | 1                             |
| 30                       | 5569                | 8.4                 | 447      | 18             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 83.3%                         |

## Radar Type 4 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 14.0                | 377      | 14             | 0                             |
| 2                        | 5491                | 14.9                | 479      | 15             | 1                             |
| 3                        | 5500                | 13.4                | 465      | 15             | 1                             |
| 4                        | 5500                | 11.5                | 200      | 16             | 1                             |
| 5                        | 5509                | 18.0                | 250      | 15             | 1                             |
| 6                        | 5509                | 13.7                | 295      | 15             | 1                             |
| 7                        | 5510                | 17.9                | 368      | 13             | 1                             |
| 8                        | 5510                | 11.7                | 207      | 12             | 0                             |
| 9                        | 5511                | 12.6                | 335      | 14             | 0                             |
| 10                       | 5511                | 11.5                | 384      | 13             | 1                             |
| 11                       | 5520                | 18.6                | 345      | 16             | 1                             |
| 12                       | 5520                | 14.9                | 260      | 15             | 1                             |
| 13                       | 5529                | 16.6                | 470      | 13             | 1                             |
| 14                       | 5529                | 13.5                | 387      | 15             | 1                             |
| 15                       | 5530                | 14.0                | 303      | 15             | 1                             |
| 16                       | 5530                | 20.0                | 260      | 14             | 1                             |
| 17                       | 5531                | 18.0                | 482      | 13             | 1                             |
| 18                       | 5531                | 14.0                | 336      | 14             | 1                             |
| 19                       | 5540                | 17.5                | 423      | 14             | 1                             |
| 20                       | 5540                | 16.9                | 200      | 14             | 1                             |
| 21                       | 5549                | 11.3                | 290      | 15             | 1                             |
| 22                       | 5549                | 15.4                | 230      | 15             | 1                             |
| 23                       | 5550                | 16.8                | 469      | 15             | 1                             |
| 24                       | 5550                | 14.5                | 205      | 12             | 1                             |
| 25                       | 5551                | 17.7                | 243      | 15             | 1                             |
| 26                       | 5551                | 17.9                | 265      | 14             | 1                             |
| 27                       | 5560                | 13.3                | 271      | 13             | 1                             |
| 28                       | 5560                | 13.3                | 212      | 15             | 1                             |
| 29                       | 5569                | 16.3                | 423      | 12             | 1                             |
| 30                       | 5569                | 14.3                | 430      | 14             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 90%                           |

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows:  $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100\% + 86.7\% + 83.3\% + 90\%) / 4 = 90\% (>80\%)$

### Radar Type 5 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5530.0              | 1                             | 16      | 5496.6              | 1                             |
| 2                        | 5530.0              | 1                             | 17      | 5498.2              | 1                             |
| 3                        | 5530.0              | 1                             | 18      | 5495.8              | 1                             |
| 4                        | 5530.0              | 1                             | 19      | 5499.0              | 1                             |
| 5                        | 5530.0              | 1                             | 20      | 5493.0              | 1                             |
| 6                        | 5530.0              | 1                             | 21      | 5566.2              | 0                             |
| 7                        | 5530.0              | 1                             | 22      | 5565.8              | 1                             |
| 8                        | 5530.0              | 1                             | 23      | 5561.4              | 1                             |
| 9                        | 5530.0              | 1                             | 24      | 5562.6              | 1                             |
| 10                       | 5530.0              | 1                             | 25      | 5563.8              | 0                             |
| 11                       | 5493.0              | 1                             | 26      | 5565.4              | 1                             |
| 12                       | 5495.8              | 1                             | 27      | 5561.8              | 0                             |
| 13                       | 5498.6              | 1                             | 28      | 5561.4              | 1                             |
| 14                       | 5498.2              | 1                             | 29      | 5563.4              | 1                             |
| 15                       | 5495.8              | 1                             | 30      | 5561.8              | 0                             |
| Detection Percentage (%) |                     |                               |         |                     | 86.6%                         |

| Type 5 Radar Waveform_1 |                  |                     |                   |                         |                         |                                       |
|-------------------------|------------------|---------------------|-------------------|-------------------------|-------------------------|---------------------------------------|
| Burst                   | Number of Pulses | Pulse Width (μ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Start Location Within Interval (msec) |
| 1                       | 1                | 67.7                | 20                |                         |                         | 155.604                               |
| 2                       | 1                | 96.5                | 20                |                         |                         | 392.728                               |
| 3                       | 3                | 86.1                | 20                | 1388                    | 1716                    | 654.205                               |
| 4                       | 2                | 76.2                | 20                | 1092                    |                         | 325.383                               |
| 5                       | 3                | 83                  | 20                | 1258                    | 1710                    | 275.191                               |
| 6                       | 1                | 60.7                | 20                |                         |                         | 588.318                               |
| 7                       | 2                | 57.3                | 20                | 1035                    |                         | 68.016                                |
| 8                       | 2                | 96.8                | 20                | 1169                    |                         | 178.924                               |
| 9                       | 2                | 83.6                | 20                | 1350                    |                         | 15.111                                |
| 10                      | 2                | 92.6                | 20                | 1599                    |                         | 483.369                               |
| 11                      | 2                | 58.7                | 20                | 1183                    |                         | 55.096                                |
| 12                      | 1                | 94.9                | 20                |                         |                         | 491.614                               |
| 13                      | 2                | 81.3                | 20                | 1299                    |                         | 253.942                               |
| 14                      | 2                | 63.5                | 20                | 1599                    |                         | 239.129                               |
| 15                      | 3                | 94.2                | 20                | 1592                    | 1306                    | 656.147                               |
| 16                      | 2                | 92.1                | 20                | 1477                    |                         | 169.365                               |
| 17                      | 2                | 78.8                | 20                | 1678                    |                         | 496.382                               |

## Type 5 Radar Waveform\_2

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 89.5                     | 5                 |                               |                               | 126.52                                |
| 2     | 3                | 99.6                     | 5                 | 1297                          | 1649                          | 919.99                                |
| 3     | 2                | 64.2                     | 5                 | 1184                          |                               | 875.03                                |
| 4     | 2                | 83.9                     | 5                 | 1809                          |                               | 211.71                                |
| 5     | 3                | 89                       | 5                 | 1223                          | 1786                          | 56.46                                 |
| 6     | 2                | 86.9                     | 5                 | 1214                          |                               | 979.15                                |
| 7     | 2                | 63.1                     | 5                 | 1529                          |                               | 259.21                                |
| 8     | 1                | 81.4                     | 5                 |                               |                               | 198.8                                 |
| 9     | 1                | 69.6                     | 5                 |                               |                               | 189.49                                |
| 10    | 1                | 74.6                     | 5                 |                               |                               | 942.4                                 |

## Type 5 Radar Waveform\_3

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 67                       | 15                |                               |                               | 723.351                               |
| 2     | 3                | 69                       | 15                | 1213                          | 1791                          | 532.363                               |
| 3     | 1                | 62.3                     | 15                |                               |                               | 867.966                               |
| 4     | 3                | 86.6                     | 15                | 1828                          | 1275                          | 101.999                               |
| 5     | 3                | 90.1                     | 15                | 1096                          | 1504                          | 201.292                               |
| 6     | 1                | 87.4                     | 15                |                               |                               | 622.785                               |
| 7     | 2                | 71.5                     | 15                | 1278                          |                               | 602.408                               |
| 8     | 2                | 76.5                     | 15                | 1454                          |                               | 659.932                               |
| 9     | 1                | 90.2                     | 15                |                               |                               | 277.125                               |
| 10    | 2                | 81.6                     | 15                | 1147                          |                               | 442.998                               |
| 11    | 1                | 55.6                     | 15                |                               |                               | 564.221                               |
| 12    | 2                | 68.7                     | 15                | 1399                          |                               | 169.154                               |
| 13    | 1                | 88.5                     | 15                |                               |                               | 755.477                               |

## Type 5 Radar Waveform\_4

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 52.8                     | 18                | 1939                          | 1641                          | 477.928                               |
| 2     | 3                | 98.4                     | 18                | 1205                          | 1736                          | 185.206                               |
| 3     | 1                | 69.9                     | 18                |                               |                               | 444.01                                |
| 4     | 1                | 64.7                     | 18                |                               |                               | 196.51                                |
| 5     | 1                | 52.6                     | 18                |                               |                               | 113.51                                |
| 6     | 1                | 68.7                     | 18                |                               |                               | 50.28                                 |
| 7     | 1                | 56.2                     | 18                |                               |                               | 140.23                                |
| 8     | 2                | 52.7                     | 18                | 1186                          |                               | 310.47                                |
| 9     | 2                | 92                       | 18                | 1431                          |                               | 21.14                                 |
| 10    | 2                | 55.4                     | 18                | 1562                          |                               | 483.79                                |
| 11    | 2                | 78.9                     | 18                | 1806                          |                               | 183.34                                |
| 12    | 2                | 99.2                     | 18                | 1926                          |                               | 503.7                                 |
| 13    | 3                | 57.6                     | 18                | 1868                          | 1679                          | 120.65                                |
| 14    | 1                | 52.4                     | 18                |                               |                               | 83.82                                 |
| 15    | 2                | 71                       | 18                | 1698                          |                               | 226.9                                 |
| 16    | 3                | 73.9                     | 18                | 1600                          | 1597                          | 575                                   |

## Type 5 Radar Waveform\_5

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 70.1                     | 10                | 1268                          |                               | 910.295                               |
| 2     | 1                | 58.3                     | 10                |                               |                               | 675.243                               |
| 3     | 2                | 84.2                     | 10                | 1437                          |                               | 247.996                               |
| 4     | 3                | 65.7                     | 10                | 1215                          | 1860                          | 803.019                               |
| 5     | 3                | 74.1                     | 10                | 1632                          | 1046                          | 682.542                               |
| 6     | 2                | 51.8                     | 10                | 1709                          |                               | 209.655                               |
| 7     | 1                | 90                       | 10                |                               |                               | 404.098                               |
| 8     | 2                | 54.7                     | 10                | 1732                          |                               | 49.082                                |
| 9     | 3                | 83.7                     | 10                | 1233                          | 1104                          | 463.795                               |
| 10    | 2                | 62.5                     | 10                | 1121                          |                               | 58.078                                |
| 11    | 2                | 98.1                     | 10                | 1763                          |                               | 548.951                               |
| 12    | 2                | 82.9                     | 10                | 1039                          |                               | 22.554                                |
| 13    | 1                | 96                       | 10                |                               |                               | 188.977                               |

## Type 5 Radar Waveform\_6

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 86.1                     | 8                 | 1221                          | 1336                          | 347.517                               |
| 2     | 3                | 65.6                     | 8                 | 1418                          | 1404                          | 34.572                                |
| 3     | 1                | 54.7                     | 8                 |                               |                               | 552.635                               |
| 4     | 2                | 95.1                     | 8                 | 1005                          |                               | 456.913                               |
| 5     | 3                | 69.9                     | 8                 | 1468                          | 1755                          | 174.201                               |
| 6     | 2                | 78.3                     | 8                 | 1298                          |                               | 81.308                                |
| 7     | 2                | 80.7                     | 8                 | 1605                          |                               | 164.286                               |
| 8     | 2                | 69.6                     | 8                 | 1894                          |                               | 474.644                               |
| 9     | 2                | 74.3                     | 8                 | 1351                          |                               | 592.621                               |
| 10    | 1                | 93.5                     | 8                 |                               |                               | 249.239                               |
| 11    | 3                | 72.6                     | 8                 | 1088                          | 1297                          | 524.166                               |
| 12    | 1                | 85.1                     | 8                 |                               |                               | 328.754                               |
| 13    | 3                | 65.3                     | 8                 | 1748                          | 1426                          | 206.762                               |
| 14    | 2                | 87.1                     | 8                 | 1392                          |                               | 485.949                               |
| 15    | 3                | 96.4                     | 8                 | 1600                          | 1035                          | 592.147                               |
| 16    | 3                | 54.8                     | 8                 | 1928                          | 1050                          | 174.365                               |
| 17    | 2                | 98.2                     | 8                 | 1908                          |                               | 294.382                               |

## Type 5 Radar Waveform\_7

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 94.4                     | 6                 | 1113                          |                               | 472.537                               |
| 2     | 3                | 72.3                     | 6                 | 1521                          | 1656                          | 813.473                               |
| 3     | 3                | 84.5                     | 6                 | 1504                          | 1385                          | 685.726                               |
| 4     | 1                | 75                       | 6                 |                               |                               | 9.979                                 |
| 5     | 2                | 92.4                     | 6                 | 1756                          |                               | 778.442                               |
| 6     | 3                | 82.5                     | 6                 | 2000                          | 1651                          | 438.185                               |
| 7     | 1                | 52.9                     | 6                 |                               |                               | 178.448                               |
| 8     | 2                | 69                       | 6                 | 1730                          |                               | 319.652                               |
| 9     | 3                | 63.6                     | 6                 | 1415                          | 1695                          | 467.685                               |
| 10    | 3                | 67.7                     | 6                 | 1906                          | 1792                          | 613.668                               |
| 11    | 3                | 50.3                     | 6                 | 1564                          | 1644                          | 342.271                               |
| 12    | 2                | 61.6                     | 6                 | 1225                          |                               | 905.954                               |
| 13    | 2                | 98                       | 6                 | 1475                          |                               | 427.177                               |



Type 5 Radar Waveform\_8

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 Spacing ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-----------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 65.8                     | 5                 | 1015                              | 1168                          | 360.678                               |
| 2     | 2                | 54.4                     | 5                 | 1769                              |                               | 10.735                                |
| 3     | 3                | 51.3                     | 5                 | 1643                              | 1208                          | 239.15                                |
| 4     | 3                | 83                       | 5                 | 1320                              | 1843                          | 281.47                                |
| 5     | 2                | 65.8                     | 5                 | 1200                              |                               | 502.51                                |
| 6     | 2                | 72.3                     | 5                 | 1597                              |                               | 474.27                                |
| 7     | 1                | 82.2                     | 5                 |                                   |                               | 81                                    |
| 8     | 3                | 73                       | 5                 | 1116                              | 1549                          | 235.83                                |
| 9     | 2                | 72.8                     | 5                 | 1095                              |                               | 193.37                                |
| 10    | 2                | 70.2                     | 5                 | 1341                              |                               | 163.28                                |
| 11    | 2                | 64.6                     | 5                 | 1496                              |                               | 147.05                                |
| 12    | 1                | 83.4                     | 5                 |                                   |                               | 359.08                                |
| 13    | 2                | 74.8                     | 5                 | 1635                              |                               | 406.62                                |
| 14    | 3                | 85.7                     | 5                 | 1704                              | 1311                          | 650.7                                 |
| 15    | 2                | 99.7                     | 5                 | 1359                              |                               | 699.5                                 |
| 16    | 1                | 72.7                     | 5                 |                                   |                               | 406.8                                 |

Type 5 Radar Waveform\_9

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 88.6                     | 15                |                               |                               | 423.479                               |
| 2     | 1                | 87.5                     | 15                |                               |                               | 633.8                                 |
| 3     | 2                | 51.9                     | 15                | 1349                          |                               | 620.31                                |
| 4     | 1                | 79.9                     | 15                |                               |                               | 341.98                                |
| 5     | 1                | 70.7                     | 15                |                               |                               | 462.21                                |
| 6     | 3                | 77.7                     | 15                | 1802                          | 1761                          | 475.05                                |
| 7     | 3                | 62.4                     | 15                | 1638                          | 1728                          | 106.92                                |
| 8     | 2                | 93.1                     | 15                | 1643                          |                               | 26.76                                 |
| 9     | 2                | 59.5                     | 15                | 1626                          |                               | 340.34                                |
| 10    | 2                | 58.6                     | 15                | 1289                          |                               | 145.98                                |
| 11    | 3                | 81.1                     | 15                | 1059                          | 1598                          | 459.26                                |
| 12    | 2                | 52.5                     | 15                | 1490                          |                               | 569.42                                |
| 13    | 3                | 98.2                     | 15                | 1823                          | 1750                          | 174.23                                |
| 14    | 2                | 58.7                     | 15                | 1999                          |                               | 687.8                                 |
| 15    | 3                | 61.6                     | 15                | 1481                          | 1394                          | 691                                   |
| 16    | 3                | 77.5                     | 15                | 1209                          | 1908                          | 643.3                                 |

Type 5 Radar Waveform\_10

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 63.7                     | 6                 | 1276                          |                               | 1163.79                               |
| 2     | 2                | 97.4                     | 6                 | 1506                          |                               | 370.67                                |
| 3     | 2                | 90.7                     | 6                 | 1022                          |                               | 597.96                                |
| 4     | 1                | 60.7                     | 6                 |                               |                               | 1076.17                               |
| 5     | 1                | 89.7                     | 6                 |                               |                               | 1177.99                               |
| 6     | 3                | 64.2                     | 6                 | 1874                          | 1900                          | 745.42                                |
| 7     | 1                | 87.8                     | 6                 |                               |                               | 399.62                                |
| 8     | 2                | 95.4                     | 6                 | 1332                          |                               | 24.97                                 |
| 9     | 3                | 55.5                     | 6                 | 1753                          | 1977                          | 270.76                                |
| 10    | 2                | 77.9                     | 6                 | 1772                          |                               | 1181.9                                |

Type 5 Radar Waveform\_11

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 63.8                     | 5                 | 1328                          | 1165                          | 943.106                               |
| 2     | 2                | 71.6                     | 5                 | 1743                          |                               | 467.55                                |
| 3     | 1                | 94                       | 5                 |                               |                               | 816.43                                |
| 4     | 1                | 67.3                     | 5                 |                               |                               | 503.67                                |
| 5     | 2                | 50.1                     | 5                 | 1805                          |                               | 840.4                                 |
| 6     | 2                | 98.5                     | 5                 | 1994                          |                               | 674.99                                |
| 7     | 1                | 89.8                     | 5                 |                               |                               | 651.14                                |
| 8     | 2                | 65.2                     | 5                 | 1620                          |                               | 209.77                                |
| 9     | 2                | 96.1                     | 5                 | 1089                          |                               | 656.28                                |
| 10    | 2                | 65.3                     | 5                 | 1822                          |                               | 737.79                                |
| 11    | 3                | 53.4                     | 5                 | 1777                          | 1753                          | 859                                   |
| 12    | 1                | 91.1                     | 5                 |                               |                               | 853.9                                 |

ype 5 Radar Waveform\_12

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 75.1                     | 12                | 1318                          |                               | 691.439                               |
| 2     | 3                | 65.3                     | 12                | 1240                          | 1977                          | 250.1                                 |
| 3     | 2                | 99.2                     | 12                | 1956                          |                               | 128.02                                |
| 4     | 3                | 93.2                     | 12                | 1190                          | 1482                          | 301.08                                |
| 5     | 1                | 96.9                     | 12                |                               |                               | 339.87                                |
| 6     | 1                | 69.7                     | 12                |                               |                               | 82.37                                 |
| 7     | 2                | 78.3                     | 12                | 1351                          |                               | 17.22                                 |
| 8     | 2                | 90.1                     | 12                | 1301                          |                               | 473.06                                |
| 9     | 3                | 54.5                     | 12                | 1674                          | 1768                          | 311.67                                |
| 10    | 3                | 52.4                     | 12                | 1720                          | 1346                          | 251.99                                |
| 11    | 2                | 94.9                     | 12                | 1103                          |                               | 254.02                                |
| 12    | 3                | 94.7                     | 12                | 1718                          | 1626                          | 262.85                                |
| 13    | 2                | 60.9                     | 12                | 1518                          |                               | 378.33                                |
| 14    | 1                | 82.7                     | 12                |                               |                               | 418.3                                 |
| 15    | 3                | 82.6                     | 12                | 1200                          | 1700                          | 601.4                                 |

Type 5 Radar Waveform\_13

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 79.5                     | 19                |                               |                               | 90.437                                |
| 2     | 2                | 99.2                     | 19                | 1300                          |                               | 57.6                                  |
| 3     | 2                | 60.1                     | 19                | 1251                          |                               | 711.514                               |
| 4     | 3                | 67.5                     | 19                | 1485                          | 1914                          | 839.301                               |
| 5     | 2                | 83.9                     | 19                | 1182                          |                               | 168.869                               |
| 6     | 2                | 95.7                     | 19                | 1152                          |                               | 545.776                               |
| 7     | 3                | 63.2                     | 19                | 1986                          | 1126                          | 195.303                               |
| 8     | 1                | 99                       | 19                |                               |                               | 189.6                                 |
| 9     | 1                | 82.2                     | 19                |                               |                               | 321.787                               |
| 10    | 2                | 61.3                     | 19                | 1507                          |                               | 819.724                               |
| 11    | 2                | 78.5                     | 19                | 1246                          |                               | 707.191                               |
| 12    | 1                | 71.6                     | 19                |                               |                               | 280.299                               |
| 13    | 2                | 51.9                     | 19                | 1574                          |                               | 802.186                               |
| 14    | 2                | 81.9                     | 19                | 1112                          |                               | 641.443                               |

Type 5 Radar Waveform\_14

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 73.5                     | 18                | 1986                          | 1770                          | 84.627                                |
| 2     | 2                | 68.4                     | 18                | 1735                          |                               | 392.873                               |
| 3     | 2                | 67.7                     | 18                | 1336                          |                               | 177.496                               |
| 4     | 2                | 91.3                     | 18                | 1269                          |                               | 204.309                               |
| 5     | 3                | 100                      | 18                | 1759                          | 1463                          | 65.192                                |
| 6     | 1                | 64.9                     | 18                |                               |                               | 871.085                               |
| 7     | 2                | 68.1                     | 18                | 1944                          |                               | 534.828                               |
| 8     | 2                | 76.2                     | 18                | 1313                          |                               | 34.002                                |
| 9     | 2                | 95.7                     | 18                | 1444                          |                               | 911.985                               |
| 10    | 2                | 73.7                     | 18                | 1994                          |                               | 705.668                               |
| 11    | 2                | 81.4                     | 18                | 1363                          |                               | 202.901                               |
| 12    | 2                | 86.6                     | 18                | 1931                          |                               | 369.854                               |
| 13    | 2                | 62.5                     | 18                | 1312                          |                               | 362.777                               |

Type 5 Radar Waveform\_15

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 94.6                     | 12                |                               |                               | 208.808                               |
| 2     | 3                | 68.8                     | 12                | 1746                          | 1356                          | 87.022                                |
| 3     | 2                | 68.1                     | 12                | 1409                          |                               | 523.772                               |
| 4     | 1                | 98.3                     | 12                |                               |                               | 431.573                               |
| 5     | 3                | 98                       | 12                | 1895                          | 1878                          | 138.584                               |
| 6     | 1                | 69.3                     | 12                |                               |                               | 552.805                               |
| 7     | 2                | 51.3                     | 12                | 1641                          |                               | 514.216                               |
| 8     | 2                | 64.9                     | 12                | 1684                          |                               | 323.417                               |
| 9     | 3                | 76.9                     | 12                | 1741                          | 1827                          | 516.918                               |
| 10    | 3                | 51                       | 12                | 1218                          | 1984                          | 457.049                               |
| 11    | 2                | 59.1                     | 12                | 1761                          |                               | 286.861                               |
| 12    | 2                | 86.2                     | 12                | 1430                          |                               | 408.612                               |
| 13    | 2                | 93.7                     | 12                | 1166                          |                               | 238.363                               |
| 14    | 2                | 71.2                     | 12                | 1544                          |                               | 201.034                               |
| 15    | 1                | 59.2                     | 12                |                               |                               | 434.085                               |
| 16    | 2                | 61.4                     | 12                | 1206                          |                               | 595.016                               |
| 17    | 2                | 73.6                     | 12                | 1286                          |                               | 12.537                                |
| 18    | 3                | 90.5                     | 12                | 1168                          | 1703                          | 502.258                               |
| 19    | 2                | 70.9                     | 12                | 1367                          |                               | 453.679                               |

Type 5 Radar Waveform\_16

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 52.3                     | 14                |                               |                               | 385.945                               |
| 2     | 3                | 61                       | 14                | 1222                          | 1686                          | 784.137                               |
| 3     | 3                | 53.9                     | 14                | 1398                          | 1026                          | 377.404                               |
| 4     | 2                | 57.8                     | 14                | 1805                          |                               | 372.611                               |
| 5     | 1                | 60.6                     | 14                |                               |                               | 90.219                                |
| 6     | 3                | 63.9                     | 14                | 1590                          | 1910                          | 633.366                               |
| 7     | 3                | 94.4                     | 14                | 1785                          | 1788                          | 529.053                               |
| 8     | 1                | 78.8                     | 14                |                               |                               | 137.82                                |
| 9     | 2                | 75.3                     | 14                | 1500                          |                               | 436.747                               |
| 10    | 2                | 84.1                     | 14                | 1702                          |                               | 141.534                               |
| 11    | 2                | 78.8                     | 14                | 1068                          |                               | 823.761                               |
| 12    | 2                | 51                       | 14                | 1756                          |                               | 265.069                               |
| 13    | 2                | 75                       | 14                | 1510                          |                               | 753.286                               |
| 14    | 2                | 62.4                     | 14                | 1410                          |                               | 69.443                                |



## Type 5 Radar Waveform\_17

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 88.5                     | 18                | 1344                          | 1525                          | 29.872                                |
| 2     | 2                | 91.8                     | 18                | 1294                          |                               | 448.353                               |
| 3     | 2                | 83.3                     | 18                | 1567                          |                               | 389.097                               |
| 4     | 3                | 97.4                     | 18                | 1251                          | 1021                          | 465.64                                |
| 5     | 2                | 58.4                     | 18                | 1304                          |                               | 368.313                               |
| 6     | 2                | 78.9                     | 18                | 1171                          |                               | 357.687                               |
| 7     | 2                | 99.7                     | 18                | 1855                          |                               | 596.76                                |
| 8     | 3                | 75.5                     | 18                | 1157                          | 1756                          | 95.833                                |
| 9     | 3                | 69.7                     | 18                | 1856                          | 1534                          | 398.057                               |
| 10    | 2                | 91.7                     | 18                | 1243                          |                               | 648.42                                |
| 11    | 3                | 55.4                     | 18                | 1905                          | 1911                          | 283.313                               |
| 12    | 3                | 83.1                     | 18                | 1505                          | 1587                          | 643.207                               |
| 13    | 2                | 66                       | 18                | 1253                          |                               | 74.51                                 |
| 14    | 1                | 71.1                     | 18                |                               |                               | 267.253                               |
| 15    | 3                | 61.5                     | 18                | 1347                          | 1631                          | 72.657                                |
| 16    | 1                | 72.7                     | 18                |                               |                               | 59.6                                  |
| 17    | 1                | 77.1                     | 18                |                               |                               | 62.533                                |
| 18    | 3                | 82.5                     | 18                | 1757                          | 1979                          | 285.067                               |

## Type 5 Radar Waveform\_18

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 57.1                     | 12                |                               |                               | 601.899                               |
| 2     | 3                | 62.2                     | 12                | 1331                          | 1566                          | 99.442                                |
| 3     | 2                | 67                       | 12                | 1870                          |                               | 476.297                               |
| 4     | 3                | 52.6                     | 12                | 1247                          | 1053                          | 7.48                                  |
| 5     | 2                | 63.9                     | 12                | 1805                          |                               | 263.553                               |
| 6     | 3                | 59.8                     | 12                | 1137                          | 1848                          | 305.797                               |
| 7     | 2                | 67.1                     | 12                | 1321                          |                               | 559.55                                |
| 8     | 2                | 97                       | 12                | 1019                          |                               | 637.363                               |
| 9     | 2                | 77.6                     | 12                | 1661                          |                               | 576.797                               |
| 10    | 2                | 63.5                     | 12                | 1244                          |                               | 654.52                                |
| 11    | 3                | 77.9                     | 12                | 1383                          | 1860                          | 257.903                               |
| 12    | 2                | 92.1                     | 12                | 1480                          |                               | 237.507                               |
| 13    | 3                | 85.7                     | 12                | 1884                          | 1803                          | 46.92                                 |
| 14    | 2                | 91.5                     | 12                | 1899                          |                               | 230.853                               |
| 15    | 2                | 86.3                     | 12                | 1526                          |                               | 218.707                               |
| 16    | 3                | 50.7                     | 12                | 1723                          | 1553                          | 16.1                                  |
| 17    | 3                | 68.5                     | 12                | 1623                          | 1571                          | 219.933                               |
| 18    | 2                | 51.4                     | 12                | 1236                          |                               | 621.467                               |

## Type 5 Radar Waveform\_19

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 87.1                     | 20                | 1713                          |                               | 207.93                                |
| 2     | 2                | 76.2                     | 20                | 1013                          |                               | 772.967                               |
| 3     | 3                | 74.5                     | 20                | 1802                          | 1769                          | 366.024                               |
| 4     | 3                | 54.7                     | 20                | 1961                          | 1441                          | 240.461                               |
| 5     | 1                | 97                       | 20                |                               |                               | 770.679                               |
| 6     | 2                | 88.1                     | 20                | 1303                          |                               | 675.416                               |
| 7     | 3                | 63.8                     | 20                | 1074                          | 1541                          | 90.923                                |
| 8     | 1                | 61.4                     | 20                |                               |                               | 287.26                                |
| 9     | 1                | 76.9                     | 20                |                               |                               | 311.067                               |
| 10    | 3                | 76.2                     | 20                | 1604                          | 1811                          | 781.444                               |
| 11    | 1                | 91.3                     | 20                |                               |                               | 714.621                               |
| 12    | 2                | 69.9                     | 20                | 1176                          |                               | 764.229                               |
| 13    | 2                | 92.9                     | 20                | 1925                          |                               | 468.286                               |
| 14    | 3                | 51.1                     | 20                | 1521                          | 1703                          | 436.143                               |

Type 5 Radar Waveform\_20

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 80.3                     | 5                 |                               |                               | 634.695                               |
| 2     | 2                | 54.5                     | 5                 | 1488                          |                               | 627.45                                |
| 3     | 2                | 78.6                     | 5                 | 1581                          |                               | 68.28                                 |
| 4     | 2                | 95                       | 5                 | 1757                          |                               | 399.93                                |
| 5     | 1                | 85.5                     | 5                 |                               |                               | 118.91                                |
| 6     | 1                | 86.3                     | 5                 |                               |                               | 774.98                                |
| 7     | 3                | 66.3                     | 5                 | 1749                          | 1851                          | 1090.4                                |
| 8     | 2                | 84.4                     | 5                 | 1445                          |                               | 993.9                                 |

Type 5 Radar Waveform\_21

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 62.6                     | 7                 | 1332                          |                               | 339.243                               |
| 2     | 3                | 67.2                     | 7                 | 1388                          | 1779                          | 197.068                               |
| 3     | 1                | 72.6                     | 7                 |                               |                               | 48.95                                 |
| 4     | 1                | 57.4                     | 7                 |                               |                               | 662.77                                |
| 5     | 3                | 79.6                     | 7                 | 1040                          | 1428                          | 561.8                                 |
| 6     | 1                | 77.7                     | 7                 |                               |                               | 485.32                                |
| 7     | 2                | 68.7                     | 7                 | 1501                          |                               | 673.27                                |
| 8     | 1                | 97.3                     | 7                 |                               |                               | 497.41                                |
| 9     | 2                | 82.7                     | 7                 | 1118                          |                               | 480.34                                |
| 10    | 1                | 69.1                     | 7                 |                               |                               | 286.52                                |
| 11    | 2                | 82.2                     | 7                 | 1938                          |                               | 432.74                                |
| 12    | 2                | 73.9                     | 7                 | 1664                          |                               | 341.68                                |
| 13    | 2                | 90.1                     | 7                 | 1731                          |                               | 459.46                                |
| 14    | 3                | 64.3                     | 7                 | 1299                          | 1722                          | 162.04                                |
| 15    | 3                | 64.3                     | 7                 | 1701                          | 1779                          | 232.2                                 |
| 16    | 2                | 77.8                     | 7                 | 1557                          |                               | 112                                   |

Type 5 Radar Waveform\_22

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 60.2                     | 8                 | 1847                          | 1852                          | 231.468                               |
| 2     | 1                | 55.9                     | 8                 |                               |                               | 808.727                               |
| 3     | 2                | 60.4                     | 8                 | 1597                          |                               | 619.234                               |
| 4     | 1                | 66                       | 8                 |                               |                               | 198.661                               |
| 5     | 2                | 69.9                     | 8                 | 1482                          |                               | 101.409                               |
| 6     | 2                | 58.6                     | 8                 | 1128                          |                               | 479.276                               |
| 7     | 3                | 89.3                     | 8                 | 1340                          | 1286                          | 833.453                               |
| 8     | 1                | 78.8                     | 8                 |                               |                               | 719.86                                |
| 9     | 2                | 59.1                     | 8                 | 1200                          |                               | 274.987                               |
| 10    | 2                | 67.1                     | 8                 | 1874                          |                               | 615.644                               |
| 11    | 1                | 76.3                     | 8                 |                               |                               | 785.991                               |
| 12    | 2                | 72.2                     | 8                 | 1419                          |                               | 603.629                               |
| 13    | 2                | 75.4                     | 8                 | 1251                          |                               | 413.786                               |
| 14    | 1                | 64.8                     | 8                 |                               |                               | 719.143                               |

## Type 5 Radar Waveform\_23

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 56.7                     | 19                |                               |                               | 305.894                               |
| 2     | 2                | 74.1                     | 19                | 1825                          |                               | 405.17                                |
| 3     | 1                | 86.7                     | 19                |                               |                               | 327.62                                |
| 4     | 1                | 54.9                     | 19                |                               |                               | 419.65                                |
| 5     | 3                | 92.9                     | 19                | 1488                          | 1340                          | 350.12                                |
| 6     | 1                | 65                       | 19                |                               |                               | 291.44                                |
| 7     | 2                | 76.8                     | 19                | 1834                          |                               | 584.15                                |
| 8     | 3                | 97.8                     | 19                | 1211                          | 1821                          | 100.69                                |
| 9     | 1                | 60.7                     | 19                |                               |                               | 220.19                                |
| 10    | 3                | 64.7                     | 19                | 1015                          | 1143                          | 496.38                                |
| 11    | 3                | 68.1                     | 19                | 1228                          | 1467                          | 410.83                                |
| 12    | 2                | 69.5                     | 19                | 1790                          |                               | 604.11                                |
| 13    | 2                | 99.2                     | 19                | 1745                          |                               | 690.2                                 |
| 14    | 1                | 65.3                     | 19                |                               |                               | 133.2                                 |
| 15    | 1                | 77.8                     | 19                |                               |                               | 641.4                                 |

## Type 5 Radar Waveform\_24

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 84.3                     | 16                |                               |                               | 499.325                               |
| 2     | 2                | 57.7                     | 16                | 1794                          |                               | 155.621                               |
| 3     | 1                | 62.7                     | 16                |                               |                               | 699.1                                 |
| 4     | 3                | 52.7                     | 16                | 1569                          | 1970                          | 229.85                                |
| 5     | 2                | 81.7                     | 16                | 1505                          |                               | 263.39                                |
| 6     | 3                | 79                       | 16                | 1564                          | 1635                          | 597.17                                |
| 7     | 2                | 88.9                     | 16                | 1762                          |                               | 5.37                                  |
| 8     | 3                | 97                       | 16                | 1746                          | 1667                          | 679.48                                |
| 9     | 1                | 60.5                     | 16                |                               |                               | 286.09                                |
| 10    | 2                | 55                       | 16                | 1348                          |                               | 271.68                                |
| 11    | 1                | 88                       | 16                |                               |                               | 118.97                                |
| 12    | 3                | 74.7                     | 16                | 1191                          | 1119                          | 268.43                                |
| 13    | 2                | 56.1                     | 16                | 1523                          |                               | 381.68                                |
| 14    | 2                | 98                       | 16                | 1096                          |                               | 287.5                                 |
| 15    | 3                | 93.2                     | 16                | 1198                          | 1749                          | 413.2                                 |
| 16    | 3                | 86.8                     | 16                | 1302                          | 1698                          | 706.1                                 |

## Type 5 Radar Waveform\_25

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 55.4                     | 13                | 1033                          |                               | 540.234                               |
| 2     | 3                | 84.8                     | 13                | 1338                          | 1731                          | 361.042                               |
| 3     | 3                | 86.1                     | 13                | 1149                          | 1180                          | 511.49                                |
| 4     | 2                | 85.7                     | 13                | 1274                          |                               | 394.31                                |
| 5     | 2                | 71.1                     | 13                | 1280                          |                               | 111.92                                |
| 6     | 2                | 62.7                     | 13                | 1403                          |                               | 476.27                                |
| 7     | 2                | 90.8                     | 13                | 1069                          |                               | 509.46                                |
| 8     | 1                | 66.1                     | 13                |                               |                               | 561.9                                 |
| 9     | 3                | 85.2                     | 13                | 1595                          | 1657                          | 336.42                                |
| 10    | 2                | 61.6                     | 13                | 1399                          |                               | 319.16                                |
| 11    | 1                | 74                       | 13                |                               |                               | 250.91                                |
| 12    | 3                | 91                       | 13                | 1416                          | 1003                          | 143.69                                |
| 13    | 1                | 63.3                     | 13                |                               |                               | 15.63                                 |
| 14    | 1                | 67.5                     | 13                |                               |                               | 217.82                                |
| 15    | 3                | 79                       | 13                | 1617                          | 1730                          | 565.42                                |
| 16    | 1                | 59.3                     | 13                |                               |                               | 501.88                                |
| 17    | 2                | 65                       | 13                | 1757                          |                               | 552.8                                 |
| 18    | 2                | 86.1                     | 13                | 1396                          |                               | 424.1                                 |
| 19    | 1                | 77.7                     | 13                |                               |                               | 368.2                                 |
| 20    | 2                | 72.9                     | 13                | 1028                          |                               | 82.3                                  |



Type 5 Radar Waveform\_26

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 79                       | 9                 | 1411                          | 1618                          | 272.911                               |
| 2     | 3                | 76                       | 9                 | 1126                          | 1223                          | 382.108                               |
| 3     | 2                | 94.9                     | 9                 | 1572                          |                               | 456.295                               |
| 4     | 1                | 51.1                     | 9                 |                               |                               | 173.283                               |
| 5     | 2                | 61                       | 9                 | 1242                          |                               | 228.401                               |
| 6     | 1                | 67.6                     | 9                 |                               |                               | 431.498                               |
| 7     | 1                | 58                       | 9                 |                               |                               | 571.326                               |
| 8     | 2                | 66.7                     | 9                 | 1321                          |                               | 403.984                               |
| 9     | 1                | 88.2                     | 9                 |                               |                               | 114.301                               |
| 10    | 1                | 56                       | 9                 |                               |                               | 352.919                               |
| 11    | 2                | 73.4                     | 9                 | 1194                          |                               | 19.896                                |
| 12    | 1                | 94                       | 9                 |                               |                               | 422.544                               |
| 13    | 1                | 68.5                     | 9                 |                               |                               | 695.332                               |
| 14    | 1                | 70.5                     | 9                 |                               |                               | 223.329                               |
| 15    | 3                | 77.6                     | 9                 | 1663                          | 1727                          | 470.447                               |
| 16    | 1                | 94.8                     | 9                 |                               |                               | 694.365                               |
| 17    | 1                | 79.3                     | 9                 |                               |                               | 396.382                               |

Type 5 Radar Waveform\_27

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 51.4                     | 18                |                               |                               | 1106.44                               |
| 2     | 1                | 77.3                     | 18                |                               |                               | 819.43                                |
| 3     | 2                | 87.2                     | 18                | 1050                          |                               | 1120.46                               |
| 4     | 2                | 69.4                     | 18                | 1200                          |                               | 351.16                                |
| 5     | 2                | 85.5                     | 18                | 1919                          |                               | 886.99                                |
| 6     | 2                | 82.9                     | 18                | 1820                          |                               | 618.89                                |
| 7     | 3                | 73.5                     | 18                | 1309                          | 1400                          | 640.45                                |
| 8     | 1                | 65.4                     | 18                |                               |                               | 234.87                                |
| 9     | 1                | 94.9                     | 18                |                               |                               | 1128.8                                |
| 10    | 2                | 63                       | 18                | 1236                          |                               | 460.5                                 |

Type 5 Radar Waveform\_28

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 86.2                     | 19                | 1593                          |                               | 166.497                               |
| 2     | 2                | 99.4                     | 19                | 1933                          |                               | 17.317                                |
| 3     | 2                | 75.5                     | 19                | 1685                          |                               | 154.023                               |
| 4     | 1                | 57.6                     | 19                |                               |                               | 770.78                                |
| 5     | 2                | 89.5                     | 19                | 1857                          |                               | 1298.347                              |
| 6     | 2                | 50.6                     | 19                | 1760                          |                               | 134.073                               |
| 7     | 1                | 83.9                     | 19                |                               |                               | 28.41                                 |
| 8     | 2                | 98                       | 19                | 1831                          |                               | 1053.267                              |
| 9     | 2                | 64.3                     | 19                | 1072                          |                               | 1042.733                              |



## Type 5 Radar Waveform\_29

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 80.7                     | 14                | 1114                          |                               | 355.35                                |
| 2     | 3                | 98.2                     | 14                | 1262                          | 1764                          | 333.823                               |
| 3     | 3                | 71.4                     | 14                | 1623                          | 1460                          | 643.937                               |
| 4     | 2                | 50.9                     | 14                | 1400                          |                               | 227.46                                |
| 5     | 1                | 76.5                     | 14                |                               |                               | 131.953                               |
| 6     | 2                | 85.3                     | 14                | 1271                          |                               | 9.627                                 |
| 7     | 3                | 67.7                     | 14                | 1522                          | 1371                          | 217.46                                |
| 8     | 1                | 93.5                     | 14                |                               |                               | 173.013                               |
| 9     | 3                | 50.3                     | 14                | 1304                          | 1135                          | 269.967                               |
| 10    | 3                | 62.2                     | 14                | 1241                          | 1187                          | 335.7                                 |
| 11    | 1                | 57                       | 14                |                               |                               | 130.603                               |
| 12    | 1                | 85                       | 14                |                               |                               | 195.827                               |
| 13    | 3                | 79.8                     | 14                | 1750                          | 1285                          | 141.91                                |
| 14    | 1                | 89.5                     | 14                |                               |                               | 366.693                               |
| 15    | 1                | 64.5                     | 14                |                               |                               | 468.097                               |
| 16    | 2                | 80.8                     | 14                | 1542                          |                               | 390.8                                 |
| 17    | 3                | 90.3                     | 14                | 1702                          | 1667                          | 176.833                               |
| 18    | 2                | 71.9                     | 14                | 1928                          |                               | 426.167                               |

## Type 5 Radar Waveform\_30

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 58.5                     | 18                | 1339                          |                               | 211.458                               |
| 2     | 2                | 52.1                     | 18                | 1729                          |                               | 224.57                                |
| 3     | 1                | 71                       | 18                |                               |                               | 318.03                                |
| 4     | 3                | 83.7                     | 18                | 1647                          | 1171                          | 543.95                                |
| 5     | 3                | 62                       | 18                | 1685                          | 1959                          | 316.39                                |
| 6     | 2                | 68.3                     | 18                | 1932                          |                               | 512.66                                |
| 7     | 3                | 59.3                     | 18                | 1740                          | 1737                          | 487.88                                |
| 8     | 1                | 97.8                     | 18                |                               |                               | 565.07                                |
| 9     | 1                | 71.3                     | 18                |                               |                               | 14.22                                 |
| 10    | 2                | 74.8                     | 18                | 1450                          |                               | 283.07                                |
| 11    | 3                | 94                       | 18                | 1365                          | 1355                          | 305.71                                |
| 12    | 1                | 73.4                     | 18                |                               |                               | 250.4                                 |
| 13    | 2                | 97.7                     | 18                | 1025                          |                               | 2.38                                  |
| 14    | 2                | 81.5                     | 18                | 1669                          |                               | 509                                   |
| 15    | 2                | 94.3                     | 18                | 1596                          |                               | 166.1                                 |
| 16    | 3                | 79                       | 18                | 1013                          | 1241                          | 246.2                                 |

## Radar Type 6 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5491                | 1                             | 16      | 5530                | 1                             |
| 2                        | 5491                | 1                             | 17      | 5531                | 1                             |
| 3                        | 5500                | 1                             | 18      | 5531                | 1                             |
| 4                        | 5500                | 1                             | 19      | 5540                | 1                             |
| 5                        | 5509                | 1                             | 20      | 5540                | 1                             |
| 6                        | 5509                | 1                             | 21      | 5549                | 1                             |
| 7                        | 5510                | 1                             | 22      | 5549                | 1                             |
| 8                        | 5510                | 1                             | 23      | 5550                | 1                             |
| 9                        | 5511                | 1                             | 24      | 5550                | 1                             |
| 10                       | 5511                | 1                             | 25      | 5551                | 1                             |
| 11                       | 5520                | 1                             | 26      | 5551                | 1                             |
| 12                       | 5520                | 1                             | 27      | 5560                | 1                             |
| 13                       | 5529                | 1                             | 28      | 5560                | 1                             |
| 14                       | 5529                | 1                             | 29      | 5569                | 1                             |
| 15                       | 5530                | 1                             | 30      | 5569                | 1                             |
| Detection Percentage (%) |                     |                               |         |                     | 100%                          |

| Radar waveform #1 |                 |                  | Radar waveform #2 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 1                 | 5537            | 3                | 9                 | 5567            | 27               |
| 15                | 5533            | 45               | 16                | 5541            | 48               |
| 20                | 5516            | 60               | 17                | 5493            | 51               |
| 24                | 5553            | 72               | 35                | 5537            | 105              |
| 27                | 5503            | 81               | 40                | 5531            | 120              |
| 30                | 5550            | 90               | 52                | 5497            | 156              |
| 37                | 5541            | 111              | 55                | 5553            | 165              |
| 39                | 5557            | 117              | 57                | 5514            | 171              |
| 50                | 5512            | 150              | 61                | 5554            | 183              |
| 51                | 5499            | 153              | 63                | 5566            | 189              |
| 53                | 5569            | 159              | 70                | 5522            | 210              |
| 56                | 5547            | 168              | 77                | 5511            | 231              |
| 71                | 5530            | 213              | 78                | 5550            | 234              |
| 73                | 5566            | 219              | 81                | 5539            | 243              |
| 86                | 5509            | 258              | 82                | 5520            | 246              |
| --                | --              | --               | 88                | 5527            | 264              |
| --                | --              | --               | 94                | 5492            | 282              |
| --                | --              | --               | 96                | 5523            | 288              |
| --                | --              | --               | 100               | 5499            | 300              |

| Radar waveform #3 |                 |                  | Radar waveform #4 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 13                | 5554            | 39               | 5                 | 5516            | 15               |
| 23                | 5535            | 69               | 10                | 5559            | 30               |
| 25                | 5557            | 75               | 14                | 5551            | 42               |
| 40                | 5565            | 120              | 18                | 5563            | 54               |
| 48                | 5522            | 144              | 23                | 5493            | 69               |
| 52                | 5564            | 156              | 24                | 5508            | 72               |
| 55                | 5504            | 165              | 29                | 5570            | 87               |
| 61                | 5529            | 183              | 31                | 5552            | 93               |
| 65                | 5550            | 195              | 35                | 5556            | 105              |
| 69                | 5530            | 207              | 37                | 5544            | 111              |
| 74                | 5541            | 222              | 41                | 5540            | 123              |
| 75                | 5524            | 225              | 56                | 5519            | 168              |
| 78                | 5532            | 234              | 57                | 5501            | 171              |
| 95                | 5526            | 285              | 71                | 5546            | 213              |
| 96                | 5562            | 288              | 86                | 5558            | 258              |
| 99                | 5497            | 297              | 87                | 5557            | 261              |
| --                | --              | --               | 97                | 5511            | 291              |

| Radar waveform #5 |                 |                  | Radar waveform #6 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 2                 | 5560            | 6                | 3                 | 5522            | 9                |
| 19                | 5544            | 57               | 7                 | 5535            | 21               |
| 36                | 5537            | 108              | 9                 | 5527            | 27               |
| 44                | 5555            | 132              | 35                | 5530            | 105              |
| 50                | 5559            | 150              | 42                | 5547            | 126              |
| 52                | 5542            | 156              | 47                | 5555            | 141              |
| 57                | 5516            | 171              | 50                | 5536            | 150              |
| 60                | 5504            | 180              | 51                | 5564            | 153              |
| 74                | 5539            | 222              | 55                | 5549            | 165              |
| 94                | 5496            | 282              | 59                | 5556            | 177              |
| 100               | 5533            | 300              | 62                | 5496            | 186              |
| --                | --              | --               | 66                | 5541            | 198              |
| --                | --              | --               | 69                | 5525            | 207              |
| --                | --              | --               | 79                | 5505            | 237              |
| --                | --              | --               | 82                | 5560            | 246              |
| --                | --              | --               | 87                | 5539            | 261              |
| --                | --              | --               | 88                | 5533            | 264              |
| --                | --              | --               | 94                | 5531            | 282              |
| --                | --              | --               | 98                | 5491            | 294              |

| Radar waveform #7 |                 |                  | Radar waveform #8 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 14                | 5533            | 42               | 2                 | 5519            | 6                |
| 16                | 5538            | 48               | 7                 | 5543            | 21               |
| 17                | 5564            | 51               | 14                | 5528            | 42               |
| 21                | 5553            | 63               | 16                | 5567            | 48               |
| 23                | 5536            | 69               | 18                | 5514            | 54               |
| 39                | 5549            | 117              | 35                | 5561            | 105              |
| 43                | 5539            | 129              | 39                | 5501            | 117              |
| 82                | 5566            | 246              | 40                | 5565            | 120              |
| 85                | 5510            | 255              | 41                | 5521            | 123              |
| 86                | 5545            | 258              | 44                | 5511            | 132              |
| 98                | 5561            | 294              | 49                | 5540            | 147              |
| --                | --              | --               | 59                | 5558            | 177              |
| --                | --              | --               | 62                | 5515            | 186              |
| --                | --              | --               | 64                | 5568            | 192              |
| --                | --              | --               | 65                | 5559            | 195              |
| --                | --              | --               | 68                | 5532            | 204              |
| --                | --              | --               | 82                | 5496            | 246              |

| Radar waveform #9 |                 |                  | Radar waveform #10 |                 |                  |
|-------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 6                 | 5569            | 18               | 6                  | 5524            | 18               |
| 26                | 5552            | 78               | 11                 | 5565            | 33               |
| 34                | 5531            | 102              | 20                 | 5567            | 60               |
| 38                | 5545            | 114              | 31                 | 5522            | 93               |
| 53                | 5509            | 159              | 41                 | 5569            | 123              |
| 55                | 5561            | 165              | 42                 | 5508            | 126              |
| 75                | 5521            | 225              | 51                 | 5526            | 153              |
| 79                | 5567            | 237              | 52                 | 5517            | 156              |
| 82                | 5529            | 246              | 53                 | 5492            | 159              |
| 83                | 5533            | 249              | 63                 | 5550            | 189              |
| 95                | 5514            | 285              | 70                 | 5501            | 210              |
| --                | --              | --               | 74                 | 5496            | 222              |
| --                | --              | --               | 88                 | 5541            | 264              |
| --                | --              | --               | 95                 | 5532            | 285              |

| Radar waveform #11 |                 |                  | Radar waveform #12 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 11                 | 5566            | 33               | 12                 | 5532            | 36               |
| 18                 | 5505            | 54               | 15                 | 5529            | 45               |
| 26                 | 5512            | 78               | 16                 | 5537            | 48               |
| 30                 | 5542            | 90               | 19                 | 5565            | 57               |
| 41                 | 5532            | 123              | 21                 | 5515            | 63               |
| 49                 | 5511            | 147              | 28                 | 5544            | 84               |
| 52                 | 5503            | 156              | 29                 | 5560            | 87               |
| 53                 | 5515            | 159              | 34                 | 5568            | 102              |
| 61                 | 5514            | 183              | 41                 | 5562            | 123              |
| 86                 | 5560            | 258              | 55                 | 5554            | 165              |
| 94                 | 5498            | 282              | 67                 | 5528            | 201              |
| 95                 | 5517            | 285              | 69                 | 5559            | 207              |
| 97                 | 5534            | 291              | 71                 | 5525            | 213              |
| --                 | --              | --               | 73                 | 5490            | 219              |
| --                 | --              | --               | 93                 | 5539            | 279              |



|    |    |    |     |      |     |
|----|----|----|-----|------|-----|
| -- | -- | -- | 96  | 5510 | 288 |
| -- | -- | -- | 100 | 5493 | 300 |

| Radar waveform #13 |                 |                  | Radar waveform #14 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 6                  | 5527            | 18               | 13                 | 5566            | 39               |
| 8                  | 5533            | 24               | 19                 | 5557            | 57               |
| 10                 | 5508            | 30               | 27                 | 5504            | 81               |
| 15                 | 5519            | 45               | 30                 | 5523            | 90               |
| 22                 | 5500            | 66               | 44                 | 5551            | 132              |
| 30                 | 5569            | 90               | 61                 | 5525            | 183              |
| 42                 | 5531            | 126              | 64                 | 5532            | 192              |
| 51                 | 5554            | 153              | 66                 | 5515            | 198              |
| 56                 | 5501            | 168              | 70                 | 5506            | 210              |
| 63                 | 5545            | 189              | 75                 | 5503            | 225              |
| 64                 | 5568            | 192              | 77                 | 5520            | 231              |
| 67                 | 5565            | 201              | 95                 | 5569            | 285              |
| 68                 | 5564            | 204              | --                 | --              | --               |
| 77                 | 5535            | 231              | --                 | --              | --               |
| 78                 | 5555            | 234              | --                 | --              | --               |
| 84                 | 5514            | 252              | --                 | --              | --               |
| 86                 | 5552            | 258              | --                 | --              | --               |
| 87                 | 5495            | 261              | --                 | --              | --               |
| 88                 | 5510            | 264              | --                 | --              | --               |
| 98                 | 5512            | 294              | --                 | --              | --               |

| Radar waveform #15 |                 |                  | Radar waveform #16 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 8                  | 5530            | 24               | 21                 | 5535            | 63               |
| 17                 | 5512            | 51               | 28                 | 5504            | 84               |
| 26                 | 5548            | 78               | 44                 | 5534            | 132              |
| 31                 | 5500            | 93               | 60                 | 5515            | 180              |
| 39                 | 5525            | 117              | 64                 | 5518            | 192              |
| 43                 | 5507            | 129              | 66                 | 5565            | 198              |
| 56                 | 5558            | 168              | 68                 | 5516            | 204              |
| 61                 | 5535            | 183              | 77                 | 5502            | 231              |
| 62                 | 5538            | 186              | 78                 | 5527            | 234              |
| 68                 | 5501            | 204              | 80                 | 5524            | 240              |
| 77                 | 5515            | 231              | 98                 | 5519            | 294              |
| 79                 | 5527            | 237              | 99                 | 5540            | 297              |
| 80                 | 5504            | 240              | --                 | --              | --               |
| 81                 | 5559            | 243              | --                 | --              | --               |
| 85                 | 5517            | 255              | --                 | --              | --               |
| 90                 | 5533            | 270              | --                 | --              | --               |

| Radar waveform #17 |                 |                  | Radar waveform #18 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 7                  | 5560            | 21               | 10                 | 5511            | 30               |
| 9                  | 5548            | 27               | 12                 | 5559            | 36               |
| 12                 | 5530            | 36               | 13                 | 5549            | 39               |
| 13                 | 5555            | 39               | 14                 | 5569            | 42               |
| 14                 | 5556            | 42               | 18                 | 5504            | 54               |
| 22                 | 5549            | 66               | 20                 | 5570            | 60               |
| 24                 | 5562            | 72               | 33                 | 5525            | 99               |
| 34                 | 5525            | 102              | 46                 | 5539            | 138              |
| 39                 | 5491            | 117              | 49                 | 5543            | 147              |
| 40                 | 5505            | 120              | 50                 | 5550            | 150              |
| 53                 | 5495            | 159              | 53                 | 5545            | 159              |
| 54                 | 5563            | 162              | 56                 | 5557            | 168              |
| 59                 | 5568            | 177              | 60                 | 5560            | 180              |
| 61                 | 5521            | 183              | 68                 | 5538            | 204              |
| 64                 | 5492            | 192              | 72                 | 5552            | 216              |
| 66                 | 5494            | 198              | 75                 | 5495            | 225              |
| 72                 | 5516            | 216              | 77                 | 5514            | 231              |
| 84                 | 5533            | 252              | 84                 | 5520            | 252              |
| 86                 | 5561            | 258              | 86                 | 5567            | 258              |
| 91                 | 5538            | 273              | 89                 | 5565            | 267              |
| 93                 | 5567            | 279              | 92                 | 5528            | 276              |

| Radar waveform #19 |                 |                  | Radar waveform #20 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 6                  | 5565            | 18               | 3                  | 5557            | 9                |
| 14                 | 5536            | 42               | 4                  | 5503            | 12               |
| 34                 | 5554            | 102              | 6                  | 5537            | 18               |
| 35                 | 5560            | 105              | 7                  | 5496            | 21               |
| 45                 | 5544            | 135              | 13                 | 5532            | 39               |
| 53                 | 5539            | 159              | 24                 | 5509            | 72               |
| 56                 | 5531            | 168              | 31                 | 5495            | 93               |
| 58                 | 5542            | 174              | 34                 | 5524            | 102              |
| 65                 | 5552            | 195              | 37                 | 5491            | 111              |
| 69                 | 5530            | 207              | 38                 | 5544            | 114              |
| 74                 | 5521            | 222              | 39                 | 5570            | 117              |
| 82                 | 5497            | 246              | 40                 | 5566            | 120              |
| 99                 | 5527            | 297              | 44                 | 5548            | 132              |
| --                 | --              | --               | 51                 | 5554            | 153              |
| --                 | --              | --               | 57                 | 5531            | 171              |
| --                 | --              | --               | 61                 | 5534            | 183              |
| --                 | --              | --               | 67                 | 5502            | 201              |
| --                 | --              | --               | 69                 | 5517            | 207              |
| --                 | --              | --               | 74                 | 5543            | 222              |
| --                 | --              | --               | 76                 | 5565            | 228              |
| --                 | --              | --               | 84                 | 5512            | 252              |
| --                 | --              | --               | 100                | 5526            | 300              |

| Radar waveform #21 |                 |                  | Radar waveform #22 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 13                 | 5495            | 39               | 9                  | 5513            | 27               |
| 16                 | 5502            | 48               | 12                 | 5537            | 36               |
| 30                 | 5553            | 90               | 36                 | 5502            | 108              |
| 38                 | 5536            | 114              | 40                 | 5540            | 120              |
| 67                 | 5552            | 201              | 41                 | 5519            | 123              |
| 68                 | 5497            | 204              | 46                 | 5514            | 138              |
| 70                 | 5566            | 210              | 49                 | 5534            | 147              |
| 75                 | 5569            | 225              | 62                 | 5555            | 186              |
| 79                 | 5522            | 237              | 64                 | 5505            | 192              |
| 86                 | 5514            | 258              | 69                 | 5496            | 207              |
| 92                 | 5554            | 276              | 76                 | 5495            | 228              |
| 97                 | 5517            | 291              | 80                 | 5559            | 240              |
| 98                 | 5498            | 294              | 81                 | 5500            | 243              |
| 100                | 5568            | 300              | 84                 | 5516            | 252              |
| --                 | --              | --               | 87                 | 5521            | 261              |

| Radar waveform #23 |                 |                  | Radar waveform #24 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 3                  | 5519            | 9                | 5                  | 5519            | 15               |
| 4                  | 5567            | 12               | 10                 | 5561            | 30               |
| 7                  | 5531            | 21               | 18                 | 5500            | 54               |
| 9                  | 5509            | 27               | 22                 | 5524            | 66               |
| 13                 | 5501            | 39               | 37                 | 5497            | 111              |
| 18                 | 5514            | 54               | 40                 | 5548            | 120              |
| 19                 | 5518            | 57               | 42                 | 5494            | 126              |
| 22                 | 5537            | 66               | 59                 | 5558            | 177              |
| 23                 | 5539            | 69               | 62                 | 5508            | 186              |
| 26                 | 5533            | 78               | 68                 | 5516            | 204              |
| 27                 | 5534            | 81               | 69                 | 5492            | 207              |
| 30                 | 5547            | 90               | 74                 | 5555            | 222              |
| 40                 | 5496            | 120              | 77                 | 5503            | 231              |
| 46                 | 5564            | 138              | 81                 | 5529            | 243              |
| 47                 | 5512            | 141              | 85                 | 5534            | 255              |

|    |      |     |    |      |     |
|----|------|-----|----|------|-----|
| 49 | 5559 | 147 | 87 | 5557 | 261 |
| 52 | 5523 | 156 | -- | --   | --  |
| 54 | 5491 | 162 | -- | --   | --  |
| 57 | 5563 | 171 | -- | --   | --  |
| 60 | 5545 | 180 | -- | --   | --  |
| 68 | 5502 | 204 | -- | --   | --  |
| 72 | 5570 | 216 | -- | --   | --  |
| 77 | 5490 | 231 | -- | --   | --  |
| 82 | 5546 | 246 | -- | --   | --  |
| 95 | 5524 | 285 | -- | --   | --  |
| 99 | 5493 | 297 | -- | --   | --  |

| Radar waveform #25 |                 |                  | Radar waveform #26 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 10                 | 5563            | 30               | 10                 | 5535            | 30               |
| 16                 | 5514            | 48               | 11                 | 5554            | 33               |
| 19                 | 5508            | 57               | 33                 | 5509            | 99               |
| 22                 | 5520            | 66               | 50                 | 5516            | 150              |
| 23                 | 5524            | 69               | 54                 | 5569            | 162              |
| 34                 | 5552            | 102              | 56                 | 5529            | 168              |
| 37                 | 5522            | 111              | 64                 | 5496            | 192              |
| 45                 | 5516            | 135              | 79                 | 5560            | 237              |
| 46                 | 5567            | 138              | 94                 | 5495            | 282              |
| 49                 | 5559            | 147              | --                 | --              | --               |
| 59                 | 5533            | 177              | --                 | --              | --               |
| 63                 | 5495            | 189              | --                 | --              | --               |
| 66                 | 5558            | 198              | --                 | --              | --               |
| 74                 | 5540            | 222              | --                 | --              | --               |
| 80                 | 5505            | 240              | --                 | --              | --               |
| 89                 | 5550            | 267              | --                 | --              | --               |
| 95                 | 5510            | 285              | --                 | --              | --               |

| Radar waveform #27 |                 |                  | Radar waveform #28 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 4                  | 5521            | 12               | 1                  | 5553            | 3                |
| 20                 | 5555            | 60               | 4                  | 5506            | 12               |
| 26                 | 5567            | 78               | 6                  | 5521            | 18               |
| 28                 | 5549            | 84               | 15                 | 5507            | 45               |
| 30                 | 5526            | 90               | 20                 | 5492            | 60               |
| 32                 | 5565            | 96               | 30                 | 5542            | 90               |
| 41                 | 5524            | 123              | 37                 | 5514            | 111              |
| 51                 | 5540            | 153              | 38                 | 5527            | 114              |
| 64                 | 5554            | 192              | 41                 | 5504            | 123              |
| 66                 | 5492            | 198              | 45                 | 5529            | 135              |
| 88                 | 5511            | 264              | 52                 | 5510            | 156              |
| 89                 | 5499            | 267              | 62                 | 5493            | 186              |
| 97                 | 5498            | 291              | 63                 | 5534            | 189              |
| --                 | --              | --               | 64                 | 5513            | 192              |
| --                 | --              | --               | 79                 | 5532            | 237              |
| --                 | --              | --               | 88                 | 5531            | 264              |



| Radar waveform #29 |                 |                  | Radar waveform #30 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 3                  | 5563            | 9                | 1                  | 5557            | 3                |
| 4                  | 5518            | 12               | 5                  | 5539            | 15               |
| 9                  | 5517            | 27               | 11                 | 5506            | 33               |
| 11                 | 5492            | 33               | 14                 | 5524            | 42               |
| 14                 | 5539            | 42               | 15                 | 5566            | 45               |
| 15                 | 5534            | 45               | 18                 | 5495            | 54               |
| 17                 | 5524            | 51               | 32                 | 5550            | 96               |
| 22                 | 5527            | 66               | 47                 | 5525            | 141              |
| 33                 | 5565            | 99               | 63                 | 5568            | 189              |
| 35                 | 5497            | 105              | 66                 | 5523            | 198              |
| 44                 | 5511            | 132              | 77                 | 5496            | 231              |
| 48                 | 5498            | 144              | 85                 | 5556            | 255              |
| 52                 | 5544            | 156              | 90                 | 5560            | 270              |
| 66                 | 5506            | 198              | 98                 | 5505            | 294              |
| 74                 | 5532            | 222              | --                 | --              | --               |
| 76                 | 5542            | 228              | --                 | --              | --               |
| 91                 | 5523            | 273              | --                 | --              | --               |
| 99                 | 5516            | 297              | --                 | --              | --               |
| 100                | 5550            | 300              | --                 | --              | --               |



|               |                                                                 |                   |            |
|---------------|-----------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                  | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                       | Relative Humidity | 65%        |
| Test Site     | AC1                                                             | Test Date         | 2020/04/09 |
| Test Item     | Radar Statistical Performance Check (802.11ax-HE160 mode -5570) |                   |            |

## Radar Type 1 - Radar Statistical Performance

| Trail # | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|---------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1       | 5491                | 1                   | 618      | 86             | 1                             |
| 2       | 5500                | 1                   | 518      | 102            | 1                             |
| 3       | 5509                | 1                   | 698      | 76             | 1                             |
| 4       | 5510                | 1                   | 598      | 89             | 1                             |
| 5       | 5511                | 1                   | 858      | 62             | 1                             |
| 6       | 5520                | 1                   | 898      | 59             | 1                             |
| 7       | 5529                | 1                   | 658      | 81             | 1                             |
| 8       | 5530                | 1                   | 798      | 67             | 1                             |
| 9       | 5531                | 1                   | 678      | 78             | 1                             |
| 10      | 5540                | 1                   | 938      | 57             | 1                             |
| 11      | 5549                | 1                   | 758      | 70             | 1                             |
| 12      | 5550                | 1                   | 778      | 68             | 1                             |
| 13      | 5551                | 1                   | 578      | 92             | 1                             |
| 14      | 5560                | 1                   | 878      | 61             | 1                             |
| 15      | 5569                | 1                   | 818      | 65             | 1                             |
| 16      | 5570                | 1                   | 752      | 71             | 1                             |
| 17      | 5571                | 1                   | 1969     | 27             | 1                             |
| 18      | 5580                | 1                   | 2425     | 22             | 1                             |
| 19      | 5589                | 1                   | 1448     | 37             | 1                             |
| 20      | 5590                | 1                   | 2701     | 20             | 1                             |
| 21      | 5591                | 1                   | 1846     | 29             | 1                             |
| 22      | 5600                | 1                   | 2228     | 24             | 1                             |
| 23      | 5609                | 1                   | 2323     | 23             | 1                             |
| 24      | 5610                | 1                   | 881      | 60             | 1                             |
| 25      | 5611                | 1                   | 3066     | 18             | 1                             |
| 26      | 5620                | 1                   | 961      | 55             | 1                             |

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 27                       | 5629                | 1                   | 2789     | 19             | 1                             |
| 28                       | 5630                | 1                   | 2718     | 20             | 1                             |
| 29                       | 5640                | 1                   | 2934     | 18             | 1                             |
| 30                       | 5649                | 1                   | 788      | 67             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 100%                          |

## Radar Type 2 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 1.9                 | 193      | 23             | 0                             |
| 2                        | 5500                | 4.4                 | 190      | 26             | 1                             |
| 3                        | 5509                | 2.1                 | 192      | 27             | 1                             |
| 4                        | 5510                | 1.7                 | 194      | 26             | 1                             |
| 5                        | 5511                | 2.5                 | 157      | 29             | 1                             |
| 6                        | 5520                | 4.2                 | 229      | 26             | 1                             |
| 7                        | 5529                | 2.1                 | 174      | 24             | 1                             |
| 8                        | 5530                | 3.2                 | 220      | 26             | 1                             |
| 9                        | 5531                | 1.7                 | 168      | 28             | 1                             |
| 10                       | 5540                | 2.1                 | 189      | 26             | 0                             |
| 11                       | 5549                | 1.7                 | 213      | 23             | 1                             |
| 12                       | 5550                | 3.3                 | 171      | 27             | 1                             |
| 13                       | 5551                | 1.0                 | 204      | 23             | 1                             |
| 14                       | 5560                | 2.9                 | 175      | 26             | 1                             |
| 15                       | 5569                | 1.9                 | 170      | 26             | 1                             |
| 16                       | 5570                | 3.3                 | 197      | 29             | 1                             |
| 17                       | 5571                | 4.5                 | 190      | 23             | 1                             |
| 18                       | 5580                | 4.2                 | 151      | 27             | 0                             |
| 19                       | 5589                | 3.2                 | 205      | 24             | 1                             |
| 20                       | 5590                | 4.2                 | 200      | 28             | 1                             |
| 21                       | 5591                | 2.8                 | 189      | 28             | 1                             |
| 22                       | 5600                | 3.9                 | 226      | 28             | 1                             |
| 23                       | 5609                | 1.4                 | 191      | 26             | 1                             |
| 24                       | 5610                | 2.8                 | 158      | 27             | 1                             |
| 25                       | 5611                | 1.3                 | 157      | 27             | 1                             |
| 26                       | 5620                | 3.5                 | 200      | 25             | 1                             |
| 27                       | 5629                | 3.9                 | 192      | 26             | 1                             |
| 28                       | 5630                | 1.0                 | 206      | 25             | 1                             |
| 29                       | 5640                | 4.6                 | 224      | 28             | 1                             |
| 30                       | 5649                | 4.3                 | 179      | 27             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 90%                           |

## Radar Type 3 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 9.5                 | 212      | 17             | 1                             |
| 2                        | 5500                | 9.5                 | 322      | 17             | 1                             |
| 3                        | 5509                | 8.4                 | 289      | 17             | 1                             |
| 4                        | 5510                | 6.8                 | 384      | 18             | 1                             |
| 5                        | 5511                | 8.6                 | 254      | 17             | 1                             |
| 6                        | 5520                | 8.6                 | 419      | 16             | 0                             |
| 7                        | 5529                | 6.8                 | 363      | 17             | 1                             |
| 8                        | 5530                | 7.0                 | 277      | 17             | 1                             |
| 9                        | 5531                | 9.0                 | 315      | 18             | 0                             |
| 10                       | 5540                | 7.2                 | 376      | 17             | 1                             |
| 11                       | 5549                | 6.4                 | 371      | 17             | 1                             |
| 12                       | 5550                | 8.9                 | 471      | 17             | 0                             |
| 13                       | 5551                | 7.0                 | 370      | 17             | 1                             |
| 14                       | 5560                | 8.9                 | 419      | 17             | 1                             |
| 15                       | 5569                | 9.5                 | 429      | 17             | 1                             |
| 16                       | 5570                | 6.5                 | 248      | 16             | 1                             |
| 17                       | 5571                | 9.4                 | 451      | 17             | 1                             |
| 18                       | 5580                | 7.2                 | 439      | 17             | 1                             |
| 19                       | 5589                | 8.5                 | 499      | 17             | 1                             |
| 20                       | 5590                | 7.3                 | 444      | 18             | 1                             |
| 21                       | 5591                | 9.3                 | 338      | 18             | 1                             |
| 22                       | 5600                | 6.0                 | 266      | 17             | 1                             |
| 23                       | 5609                | 7.0                 | 383      | 17             | 1                             |
| 24                       | 5610                | 8.6                 | 308      | 16             | 1                             |
| 25                       | 5611                | 10.0                | 313      | 17             | 1                             |
| 26                       | 5620                | 8.4                 | 357      | 18             | 1                             |
| 27                       | 5629                | 9.6                 | 207      | 17             | 1                             |
| 28                       | 5630                | 8.7                 | 291      | 16             | 1                             |
| 29                       | 5640                | 6.0                 | 280      | 18             | 0                             |
| 30                       | 5649                | 8.5                 | 381      | 17             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 86.7%                         |

## Radar Type 4 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5491                | 13.1                | 440      | 15             | 1                             |
| 2                        | 5500                | 14.8                | 474      | 14             | 1                             |
| 3                        | 5509                | 14.4                | 314      | 13             | 1                             |
| 4                        | 5510                | 16.9                | 381      | 16             | 1                             |
| 5                        | 5511                | 18.0                | 397      | 16             | 1                             |
| 6                        | 5520                | 18.0                | 221      | 14             | 1                             |
| 7                        | 5529                | 17.3                | 296      | 13             | 1                             |
| 8                        | 5530                | 16.9                | 277      | 14             | 1                             |
| 9                        | 5531                | 17.8                | 466      | 14             | 1                             |
| 10                       | 5540                | 15.3                | 212      | 14             | 1                             |
| 11                       | 5549                | 12.7                | 286      | 12             | 1                             |
| 12                       | 5550                | 12.2                | 297      | 12             | 1                             |
| 13                       | 5551                | 13.3                | 271      | 14             | 1                             |
| 14                       | 5560                | 19.6                | 474      | 15             | 1                             |
| 15                       | 5569                | 14.8                | 243      | 15             | 1                             |
| 16                       | 5570                | 18.4                | 412      | 14             | 1                             |
| 17                       | 5571                | 11.6                | 268      | 14             | 1                             |
| 18                       | 5580                | 17.2                | 226      | 16             | 1                             |
| 19                       | 5589                | 17.2                | 391      | 13             | 1                             |
| 20                       | 5590                | 17.8                | 432      | 13             | 0                             |
| 21                       | 5591                | 16.9                | 484      | 13             | 1                             |
| 22                       | 5600                | 11.3                | 239      | 15             | 1                             |
| 23                       | 5609                | 19.2                | 284      | 16             | 1                             |
| 24                       | 5610                | 11.9                | 215      | 13             | 0                             |
| 25                       | 5611                | 14.3                | 401      | 13             | 1                             |
| 26                       | 5620                | 13.3                | 410      | 15             | 1                             |
| 27                       | 5629                | 19.3                | 465      | 14             | 0                             |
| 28                       | 5630                | 11.1                | 213      | 15             | 1                             |
| 29                       | 5640                | 13.7                | 355      | 15             | 1                             |
| 30                       | 5649                | 18.4                | 385      | 14             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 90%                           |

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows:  $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100\% + 90\% + 86.7\% + 90\%) / 4 = 91.7\% (>80\%)$

### Radar Type 5 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5570.0              | 1                             | 16      | 5493.8              | 1                             |
| 2                        | 5570.0              | 1                             | 17      | 5496.6              | 0                             |
| 3                        | 5570.0              | 1                             | 18      | 5498.6              | 1                             |
| 4                        | 5570.0              | 1                             | 19      | 5493.0              | 1                             |
| 5                        | 5570.0              | 1                             | 20      | 5497.4              | 1                             |
| 6                        | 5570.0              | 1                             | 21      | 5642.6              | 1                             |
| 7                        | 5570.0              | 1                             | 22      | 5645.4              | 1                             |
| 8                        | 5570.0              | 1                             | 23      | 5646.6              | 1                             |
| 9                        | 5570.0              | 1                             | 24      | 5644.6              | 1                             |
| 10                       | 5570.0              | 1                             | 25      | 5641.8              | 0                             |
| 11                       | 5495.4              | 1                             | 26      | 5641.0              | 1                             |
| 12                       | 5497.8              | 1                             | 27      | 5644.2              | 0                             |
| 13                       | 5495.8              | 1                             | 28      | 5642.6              | 0                             |
| 14                       | 5493.4              | 1                             | 29      | 5643.8              | 0                             |
| 15                       | 5494.6              | 1                             | 30      | 5646.6              | 1                             |
| Detection Percentage (%) |                     |                               |         |                     | 83.3%                         |

| Type 5 Radar Waveform_1 |                  |                          |                   |                               |                               |                                       |
|-------------------------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| Burst                   | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
| 1                       | 2                | 83.6                     | 6                 | 1798                          |                               | 100.7                                 |
| 2                       | 3                | 71.2                     | 6                 | 1016                          | 1836                          | 521.05                                |
| 3                       | 3                | 88.4                     | 6                 | 1542                          | 1850                          | 373.1                                 |
| 4                       | 3                | 65                       | 6                 | 1615                          | 1808                          | 472.5                                 |
| 5                       | 1                | 61.5                     | 6                 |                               |                               | 306.58                                |
| 6                       | 2                | 67.5                     | 6                 | 1950                          |                               | 17.29                                 |
| 7                       | 1                | 69.2                     | 6                 |                               |                               | 116.61                                |
| 8                       | 1                | 61.2                     | 6                 |                               |                               | 549.03                                |
| 9                       | 2                | 74.5                     | 6                 | 1817                          |                               | 54.71                                 |
| 10                      | 1                | 98.7                     | 6                 |                               |                               | 466.23                                |
| 11                      | 3                | 56.6                     | 6                 | 1798                          | 1145                          | 135.92                                |
| 12                      | 1                | 88.2                     | 6                 |                               |                               | 257.81                                |
| 13                      | 1                | 63.2                     | 6                 |                               |                               | 240.24                                |
| 14                      | 2                | 53.5                     | 6                 | 1097                          |                               | 742                                   |
| 15                      | 1                | 86.8                     | 6                 |                               |                               | 620.3                                 |
| 16                      | 2                | 88.4                     | 6                 | 1857                          |                               | 551.2                                 |



## Type 5 Radar Waveform\_2

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 71.6                     | 20                | 1081                          |                               | 710.811                               |
| 2     | 1                | 90.2                     | 20                |                               |                               | 1034.991                              |
| 3     | 3                | 58.9                     | 20                | 1631                          | 1757                          | 545.772                               |
| 4     | 1                | 50.6                     | 20                |                               |                               | 927.963                               |
| 5     | 2                | 89.9                     | 20                | 1502                          |                               | 652.344                               |
| 6     | 2                | 61                       | 20                | 1776                          |                               | 1058.035                              |
| 7     | 1                | 58.7                     | 20                |                               |                               | 642.145                               |
| 8     | 2                | 97.7                     | 20                | 1737                          |                               | 377.056                               |
| 9     | 1                | 75                       | 20                |                               |                               | 250.317                               |
| 10    | 3                | 97.8                     | 20                | 1661                          | 1988                          | 960.718                               |
| 11    | 1                | 50.3                     | 20                |                               |                               | 458.909                               |

## Type 5 Radar Waveform\_3

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 81.1                     | 18                | 1003                          | 1377                          | 1477.67                               |
| 2     | 2                | 84.1                     | 18                | 1483                          |                               | 320.43                                |
| 3     | 3                | 82.4                     | 18                | 1993                          | 1088                          | 1429.6                                |
| 4     | 2                | 99.3                     | 18                | 1241                          |                               | 135.61                                |
| 5     | 2                | 85.5                     | 18                | 1827                          |                               | 1242.57                               |
| 6     | 2                | 55.4                     | 18                | 1922                          |                               | 402.69                                |
| 7     | 3                | 88.1                     | 18                | 1314                          | 1935                          | 1467.7                                |
| 8     | 3                | 76.2                     | 18                | 1203                          | 1179                          | 1021.8                                |

## Type 5 Radar Waveform\_4

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 96.6                     | 17                | 1884                          | 1901                          | 523.618                               |
| 2     | 2                | 77.1                     | 17                | 1857                          |                               | 577.06                                |
| 3     | 3                | 55.3                     | 17                | 1420                          | 1921                          | 25.91                                 |
| 4     | 3                | 74.9                     | 17                | 1252                          | 1738                          | 151.57                                |
| 5     | 1                | 73.1                     | 17                |                               |                               | 85.37                                 |
| 6     | 2                | 65.8                     | 17                | 1751                          |                               | 222.96                                |
| 7     | 1                | 78                       | 17                |                               |                               | 494.77                                |
| 8     | 3                | 94.4                     | 17                | 1567                          | 1568                          | 133.69                                |
| 9     | 1                | 99.7                     | 17                |                               |                               | 707.35                                |
| 10    | 2                | 75.7                     | 17                | 1695                          |                               | 544.76                                |
| 11    | 1                | 97.6                     | 17                |                               |                               | 615.1                                 |
| 12    | 1                | 72.8                     | 17                |                               |                               | 203.73                                |
| 13    | 3                | 57.4                     | 17                | 1855                          | 1348                          | 320.36                                |
| 14    | 3                | 55.5                     | 17                | 1991                          | 1590                          | 285.4                                 |
| 15    | 1                | 75.6                     | 17                |                               |                               | 354.2                                 |

## Type 5 Radar Waveform\_5

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 76.5                     | 6                 | 1657                          |                               | 263.638                               |
| 2     | 1                | 59.3                     | 6                 |                               |                               | 528.34                                |
| 3     | 2                | 78.2                     | 6                 | 1525                          |                               | 435.2                                 |
| 4     | 2                | 76.7                     | 6                 | 1722                          |                               | 110.67                                |
| 5     | 2                | 77.2                     | 6                 | 1485                          |                               | 12.88                                 |
| 6     | 2                | 72.3                     | 6                 | 1956                          |                               | 356.51                                |
| 7     | 3                | 76.3                     | 6                 | 1328                          | 1869                          | 567.92                                |
| 8     | 3                | 52.3                     | 6                 | 1809                          | 1266                          | 375.78                                |
| 9     | 2                | 93.8                     | 6                 | 1491                          |                               | 314.47                                |
| 10    | 1                | 90.6                     | 6                 |                               |                               | 181.61                                |
| 11    | 2                | 57.4                     | 6                 | 1332                          |                               | 144                                   |
| 12    | 2                | 62.8                     | 6                 | 1445                          |                               | 492.91                                |
| 13    | 2                | 55.7                     | 6                 | 1272                          |                               | 114.22                                |
| 14    | 2                | 96.7                     | 6                 | 1359                          |                               | 384.4                                 |
| 15    | 1                | 85.5                     | 6                 |                               |                               | 280.2                                 |

## Type 5 Radar Waveform\_6

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 88.6                     | 15                | 1411                          |                               | 217.968                               |
| 2     | 3                | 81.9                     | 15                | 1187                          | 1092                          | 354.613                               |
| 3     | 1                | 80.1                     | 15                |                               |                               | 517.217                               |
| 4     | 2                | 73.8                     | 15                | 1470                          |                               | 80.28                                 |
| 5     | 2                | 50.2                     | 15                | 1277                          |                               | 284.713                               |
| 6     | 2                | 97.9                     | 15                | 1951                          |                               | 197.137                               |
| 7     | 1                | 86.9                     | 15                |                               |                               | 523.22                                |
| 8     | 3                | 81.5                     | 15                | 1611                          | 1735                          | 475.533                               |
| 9     | 2                | 89.9                     | 15                | 1254                          |                               | 273.237                               |
| 10    | 1                | 60.6                     | 15                |                               |                               | 16.22                                 |
| 11    | 3                | 90.9                     | 15                | 1623                          | 1520                          | 504.623                               |
| 12    | 3                | 64.3                     | 15                | 1685                          | 1632                          | 590.237                               |
| 13    | 3                | 61.5                     | 15                | 1826                          | 1854                          | 93.4                                  |
| 14    | 2                | 50.6                     | 15                | 1757                          |                               | 237.813                               |
| 15    | 1                | 68.8                     | 15                |                               |                               | 368.867                               |
| 16    | 3                | 83.9                     | 15                | 1170                          | 1114                          | 521.8                                 |
| 17    | 1                | 91.5                     | 15                |                               |                               | 62.333                                |
| 18    | 2                | 65.5                     | 15                | 1323                          |                               | 449.367                               |

## Type 5 Radar Waveform\_7

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 59.6                     | 13                |                               |                               | 908.845                               |
| 2     | 2                | 61.7                     | 13                | 1169                          |                               | 1444.22                               |
| 3     | 1                | 73.6                     | 13                |                               |                               | 1160.12                               |
| 4     | 1                | 93.5                     | 13                |                               |                               | 590.6                                 |
| 5     | 3                | 98.4                     | 13                | 1104                          | 1972                          | 1373.43                               |
| 6     | 3                | 86.6                     | 13                | 1309                          | 1333                          | 662.77                                |
| 7     | 1                | 97                       | 13                |                               |                               | 212.11                                |
| 8     | 3                | 77.8                     | 13                | 1829                          | 1921                          | 945.6                                 |

## Type 5 Radar Waveform\_8

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 Spacing ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-----------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 93.7                     | 18                | 1166                              | 1061                          | 168.136                               |
| 2     | 1                | 78.6                     | 18                |                                   |                               | 3.178                                 |
| 3     | 1                | 71.3                     | 18                |                                   |                               | 109.885                               |
| 4     | 2                | 61.8                     | 18                | 1622                              |                               | 124.893                               |
| 5     | 2                | 55.6                     | 18                | 1527                              |                               | 681.311                               |
| 6     | 2                | 83.8                     | 18                | 1032                              |                               | 601.668                               |
| 7     | 1                | 71.1                     | 18                |                                   |                               | 501.406                               |
| 8     | 1                | 98.7                     | 18                |                                   |                               | 371.904                               |
| 9     | 2                | 88.3                     | 18                | 1714                              |                               | 56.121                                |
| 10    | 3                | 90.5                     | 18                | 1053                              | 1096                          | 150.829                               |
| 11    | 3                | 70.5                     | 18                | 1963                              | 1266                          | 510.536                               |
| 12    | 2                | 65.5                     | 18                | 1792                              |                               | 95.264                                |
| 13    | 2                | 73.7                     | 18                | 1583                              |                               | 513.732                               |
| 14    | 2                | 97.4                     | 18                | 1211                              |                               | 573.739                               |
| 15    | 3                | 94.3                     | 18                | 1365                              | 1330                          | 682.947                               |
| 16    | 1                | 70.3                     | 18                |                                   |                               | 423.065                               |
| 17    | 2                | 72.7                     | 18                | 1338                              |                               | 440.182                               |

## Type 5 Radar Waveform\_9

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 56.3                     | 16                | 1625                          |                               | 1018.57                               |
| 2     | 3                | 78.2                     | 16                | 1212                          | 1737                          | 1030.171                              |
| 3     | 2                | 54.8                     | 16                | 1136                          |                               | 127.122                               |
| 4     | 1                | 74.2                     | 16                |                               |                               | 0.193                                 |
| 5     | 3                | 67.9                     | 16                | 1613                          | 1590                          | 700.664                               |
| 6     | 3                | 51.9                     | 16                | 1800                          | 1921                          | 433.005                               |
| 7     | 3                | 89.5                     | 16                | 1422                          | 1750                          | 934.915                               |
| 8     | 3                | 91.1                     | 16                | 1172                          | 1775                          | 984.396                               |
| 9     | 2                | 99.1                     | 16                | 1288                          |                               | 480.157                               |
| 10    | 2                | 68.3                     | 16                | 1036                          |                               | 962.118                               |
| 11    | 1                | 99.8                     | 16                |                               |                               | 114.809                               |

## Type 5 Radar Waveform\_10

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 77.2                     | 13                | 1977                          | 1190                          | 613.936                               |
| 2     | 2                | 51.3                     | 13                | 1912                          |                               | 273.972                               |
| 3     | 2                | 85.8                     | 13                | 1872                          |                               | 367.937                               |
| 4     | 3                | 96.4                     | 13                | 1762                          | 1429                          | 636.37                                |
| 5     | 3                | 52                       | 13                | 1388                          | 1011                          | 539.583                               |
| 6     | 1                | 87.7                     | 13                |                               |                               | 170.867                               |
| 7     | 2                | 63                       | 13                | 1208                          |                               | 420.77                                |
| 8     | 1                | 70.7                     | 13                |                               |                               | 650.583                               |
| 9     | 3                | 69                       | 13                | 1752                          | 1191                          | 196.967                               |
| 10    | 3                | 73.7                     | 13                | 1196                          | 1448                          | 126.71                                |
| 11    | 2                | 82.1                     | 13                | 1455                          |                               | 192.813                               |
| 12    | 1                | 51.9                     | 13                |                               |                               | 394.407                               |
| 13    | 1                | 63.5                     | 13                |                               |                               | 243.35                                |
| 14    | 1                | 78.3                     | 13                |                               |                               | 556.203                               |
| 15    | 1                | 95.8                     | 13                |                               |                               | 263.677                               |
| 16    | 3                | 93                       | 13                | 1735                          | 1381                          | 259                                   |
| 17    | 1                | 65.2                     | 13                |                               |                               | 503.433                               |
| 18    | 2                | 80                       | 13                | 1212                          |                               | 317.167                               |



Type 5 Radar Waveform\_11

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 59.1                     | 11                |                               |                               | 700.968                               |
| 2     | 3                | 74.4                     | 11                | 1567                          | 1835                          | 600.5                                 |
| 3     | 1                | 68.5                     | 11                |                               |                               | 48.43                                 |
| 4     | 2                | 98.8                     | 11                | 1933                          |                               | 114.24                                |
| 5     | 2                | 90.1                     | 11                | 1714                          |                               | 53.53                                 |
| 6     | 1                | 98.1                     | 11                |                               |                               | 269.96                                |
| 7     | 3                | 84                       | 11                | 1219                          | 1763                          | 375.98                                |
| 8     | 1                | 67.2                     | 11                |                               |                               | 360.21                                |
| 9     | 2                | 90.3                     | 11                | 1213                          |                               | 526.6                                 |
| 10    | 2                | 82.6                     | 11                | 1137                          |                               | 283.03                                |
| 11    | 2                | 89.2                     | 11                | 1128                          |                               | 553.58                                |
| 12    | 2                | 85.6                     | 11                | 1911                          |                               | 694.54                                |
| 13    | 2                | 99.6                     | 11                | 1421                          |                               | 513.49                                |
| 14    | 1                | 80.5                     | 11                |                               |                               | 539.8                                 |
| 15    | 2                | 92.5                     | 11                | 1086                          |                               | 364.5                                 |
| 16    | 2                | 74.9                     | 11                | 1100                          |                               | 463.6                                 |

Type 5 Radar Waveform\_12

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 81.2                     | 17                | 1291                          |                               | 444.522                               |
| 2     | 2                | 77                       | 17                | 1050                          |                               | 742.263                               |
| 3     | 2                | 73                       | 17                | 1603                          |                               | 485.046                               |
| 4     | 2                | 91.8                     | 17                | 1721                          |                               | 317.069                               |
| 5     | 1                | 79.9                     | 17                |                               |                               | 324.852                               |
| 6     | 2                | 66.8                     | 17                | 1060                          |                               | 460.215                               |
| 7     | 1                | 75.5                     | 17                |                               |                               | 603.198                               |
| 8     | 3                | 89.5                     | 17                | 1758                          | 1962                          | 842.102                               |
| 9     | 3                | 54.6                     | 17                | 1353                          | 1029                          | 179.505                               |
| 10    | 1                | 79.5                     | 17                |                               |                               | 329.198                               |
| 11    | 1                | 60                       | 17                |                               |                               | 438.381                               |
| 12    | 1                | 77.3                     | 17                |                               |                               | 854.254                               |
| 13    | 2                | 69.2                     | 17                | 1865                          |                               | 392.277                               |

Type 5 Radar Waveform\_13

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 56.9                     | 12                | 1614                          |                               | 25.964                                |
| 2     | 1                | 69.3                     | 12                |                               |                               | 335.831                               |
| 3     | 2                | 52.8                     | 12                | 1991                          |                               | 260.012                               |
| 4     | 2                | 79.4                     | 12                | 1429                          |                               | 911.823                               |
| 5     | 1                | 84.4                     | 12                |                               |                               | 321.704                               |
| 6     | 1                | 83.7                     | 12                |                               |                               | 268.885                               |
| 7     | 2                | 69.7                     | 12                | 1064                          |                               | 919.295                               |
| 8     | 1                | 95.5                     | 12                |                               |                               | 979.606                               |
| 9     | 3                | 74.4                     | 12                | 1241                          | 1784                          | 529.897                               |
| 10    | 1                | 67.2                     | 12                |                               |                               | 738.218                               |
| 11    | 2                | 96.1                     | 12                | 1411                          |                               | 701.009                               |

Type 5 Radar Waveform\_14

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 63.2                     | 6                 |                               |                               | 684.397                               |
| 2     | 1                | 66.1                     | 6                 |                               |                               | 69.413                                |
| 3     | 2                | 83                       | 6                 | 1995                          |                               | 801.884                               |
| 4     | 3                | 66.4                     | 6                 | 1286                          | 1546                          | 23.941                                |
| 5     | 3                | 85.4                     | 6                 | 1053                          | 1178                          | 841.439                               |
| 6     | 3                | 71.5                     | 6                 | 1071                          | 1889                          | 515.146                               |
| 7     | 2                | 90.3                     | 6                 | 1314                          |                               | 372.403                               |
| 8     | 2                | 55                       | 6                 | 1157                          |                               | 731.83                                |
| 9     | 2                | 59.8                     | 6                 | 1363                          |                               | 165.477                               |
| 10    | 2                | 89.5                     | 6                 | 1143                          |                               | 466.434                               |
| 11    | 3                | 55.2                     | 6                 | 1529                          | 1151                          | 656.231                               |
| 12    | 3                | 81.9                     | 6                 | 1413                          | 1718                          | 246.899                               |
| 13    | 2                | 66.1                     | 6                 | 1329                          |                               | 113.986                               |
| 14    | 2                | 55.8                     | 6                 | 1707                          |                               | 306.643                               |

Type 5 Radar Waveform\_15

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 63                       | 9                 | 1361                          |                               | 394.638                               |
| 2     | 2                | 54.8                     | 9                 | 1674                          |                               | 720.46                                |
| 3     | 3                | 81.5                     | 9                 | 1428                          | 1823                          | 181.25                                |
| 4     | 2                | 76.3                     | 9                 | 1363                          |                               | 128.35                                |
| 5     | 3                | 68                       | 9                 | 1926                          | 1842                          | 659.5                                 |
| 6     | 2                | 98.4                     | 9                 | 1888                          |                               | 490.3                                 |
| 7     | 2                | 89.8                     | 9                 | 1803                          |                               | 135.99                                |
| 8     | 2                | 80.2                     | 9                 | 1506                          |                               | 126.36                                |
| 9     | 3                | 83                       | 9                 | 1732                          | 1484                          | 577.62                                |
| 10    | 2                | 86.6                     | 9                 | 1681                          |                               | 564.03                                |
| 11    | 3                | 76.8                     | 9                 | 1703                          | 1206                          | 140.87                                |
| 12    | 3                | 77.4                     | 9                 | 1533                          | 1871                          | 531.14                                |
| 13    | 1                | 77.2                     | 9                 |                               |                               | 73.79                                 |
| 14    | 2                | 90.7                     | 9                 | 1035                          |                               | 524.6                                 |
| 15    | 2                | 62.8                     | 9                 | 1774                          |                               | 264.4                                 |
| 16    | 3                | 89.8                     | 9                 | 1045                          | 1780                          | 637.1                                 |

Type 5 Radar Waveform\_16

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 62.1                     | 7                 | 1467                          |                               | 492.545                               |
| 2     | 2                | 80.2                     | 7                 | 1483                          |                               | 656.013                               |
| 3     | 1                | 77.1                     | 7                 |                               |                               | 123.747                               |
| 4     | 3                | 66.4                     | 7                 | 1493                          | 1376                          | 516.1                                 |
| 5     | 2                | 53.6                     | 7                 | 1537                          |                               | 527.103                               |
| 6     | 3                | 95.2                     | 7                 | 1738                          | 1316                          | 186.847                               |
| 7     | 2                | 68.7                     | 7                 | 1049                          |                               | 391.82                                |
| 8     | 2                | 75.4                     | 7                 | 1759                          |                               | 153.703                               |
| 9     | 2                | 64.8                     | 7                 | 1081                          |                               | 191.167                               |
| 10    | 1                | 69.7                     | 7                 |                               |                               | 484.08                                |
| 11    | 3                | 59.3                     | 7                 | 1250                          | 1948                          | 422.323                               |
| 12    | 2                | 60.3                     | 7                 | 1385                          |                               | 46.427                                |
| 13    | 2                | 69.8                     | 7                 | 1048                          |                               | 568.79                                |
| 14    | 3                | 99.1                     | 7                 | 1065                          | 1462                          | 154.723                               |
| 15    | 3                | 63.9                     | 7                 | 1421                          | 1921                          | 618.137                               |
| 16    | 3                | 54.3                     | 7                 | 1493                          | 1710                          | 41.1                                  |
| 17    | 1                | 64.9                     | 7                 |                               |                               | 5.833                                 |
| 18    | 2                | 50.3                     | 7                 | 1401                          |                               | 499.767                               |

Type 5 Radar Waveform\_17

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 71.9                     | 14                | 1846                          | 1895                          | 569.717                               |
| 2     | 2                | 63.2                     | 14                | 1614                          |                               | 596.171                               |
| 3     | 1                | 97.4                     | 14                |                               |                               | 533.032                               |
| 4     | 2                | 65.5                     | 14                | 1695                          |                               | 493.873                               |
| 5     | 2                | 66.2                     | 14                | 1376                          |                               | 379.304                               |
| 6     | 2                | 93                       | 14                | 1045                          |                               | 197.085                               |
| 7     | 3                | 73.7                     | 14                | 1209                          | 1044                          | 44.406                                |
| 8     | 2                | 63.2                     | 14                | 1654                          |                               | 371.847                               |
| 9     | 3                | 52.8                     | 14                | 1282                          | 1530                          | 152.898                               |
| 10    | 2                | 63.3                     | 14                | 1331                          |                               | 419.599                               |
| 11    | 1                | 71.8                     | 14                |                               |                               | 353.781                               |
| 12    | 2                | 91.4                     | 14                | 1130                          |                               | 500.622                               |
| 13    | 1                | 85.6                     | 14                |                               |                               | 218.573                               |
| 14    | 2                | 78.1                     | 14                | 1865                          |                               | 474.414                               |
| 15    | 2                | 55.7                     | 14                | 1692                          |                               | 154.445                               |
| 16    | 2                | 70.8                     | 14                | 1177                          |                               | 304.226                               |
| 17    | 1                | 96.2                     | 14                |                               |                               | 195.037                               |
| 18    | 1                | 73.8                     | 14                |                               |                               | 0.358                                 |
| 19    | 2                | 55.7                     | 14                | 1806                          |                               | 586.979                               |

Type 5 Radar Waveform\_18

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 61.1                     | 19                | 1446                          |                               | 1261.72                               |
| 2     | 2                | 91.5                     | 19                | 1493                          |                               | 194.037                               |
| 3     | 2                | 55.6                     | 19                | 1882                          |                               | 1122.123                              |
| 4     | 2                | 99.3                     | 19                | 1724                          |                               | 76.26                                 |
| 5     | 2                | 82.5                     | 19                | 1994                          |                               | 394.437                               |
| 6     | 2                | 97.4                     | 19                | 1639                          |                               | 977.663                               |
| 7     | 3                | 92                       | 19                | 1179                          | 1504                          | 1304.07                               |
| 8     | 2                | 86.6                     | 19                | 1711                          |                               | 658.117                               |
| 9     | 1                | 55                       | 19                |                               |                               | 458.433                               |

Type 5 Radar Waveform\_19

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 54.3                     | 5                 |                               |                               | 966.436                               |
| 2     | 1                | 50                       | 5                 |                               |                               | 247.14                                |
| 3     | 2                | 75.5                     | 5                 | 1510                          |                               | 572.95                                |
| 4     | 2                | 63.9                     | 5                 | 1923                          |                               | 192.48                                |
| 5     | 2                | 63                       | 5                 | 1800                          |                               | 922                                   |
| 6     | 3                | 55.8                     | 5                 | 1055                          | 1591                          | 131.92                                |
| 7     | 2                | 91.3                     | 5                 | 1570                          |                               | 11.65                                 |
| 8     | 2                | 78.5                     | 5                 | 1964                          |                               | 337.01                                |
| 9     | 3                | 86.6                     | 5                 | 1626                          | 1732                          | 430.27                                |
| 10    | 2                | 79.6                     | 5                 | 1707                          |                               | 22.13                                 |
| 11    | 2                | 52                       | 5                 | 1481                          |                               | 849.4                                 |
| 12    | 1                | 99.6                     | 5                 |                               |                               | 389.6                                 |



Type 5 Radar Waveform\_20

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 72.2                     | 16                | 1605                          |                               | 776.863                               |
| 2     | 2                | 66.9                     | 16                | 1258                          |                               | 960.041                               |
| 3     | 2                | 64.4                     | 16                | 1561                          |                               | 512.182                               |
| 4     | 2                | 83.3                     | 16                | 1381                          |                               | 805.673                               |
| 5     | 1                | 81.9                     | 16                |                               |                               | 985.204                               |
| 6     | 3                | 53.5                     | 16                | 1601                          | 1670                          | 971.205                               |
| 7     | 2                | 96.2                     | 16                | 1906                          |                               | 760.525                               |
| 8     | 2                | 58.3                     | 16                | 1061                          |                               | 221.926                               |
| 9     | 3                | 100                      | 16                | 1702                          | 1666                          | 222.127                               |
| 10    | 2                | 69.1                     | 16                | 1205                          |                               | 666.718                               |
| 11    | 3                | 65.2                     | 16                | 1454                          | 1570                          | 138.609                               |

Type 5 Radar Waveform\_21

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 73.4                     | 16                | 1567                          |                               | 109.01                                |
| 2     | 3                | 60.4                     | 16                | 1406                          | 1970                          | 381.343                               |
| 3     | 1                | 64.7                     | 16                |                               |                               | 232.196                               |
| 4     | 2                | 67.1                     | 16                | 1860                          |                               | 522.079                               |
| 5     | 2                | 80.9                     | 16                | 1835                          |                               | 873.272                               |
| 6     | 3                | 56.6                     | 16                | 1728                          | 1136                          | 406.325                               |
| 7     | 3                | 53                       | 16                | 1680                          | 1330                          | 854.518                               |
| 8     | 3                | 66.5                     | 16                | 1171                          | 1085                          | 587.622                               |
| 9     | 2                | 99                       | 16                | 1078                          |                               | 564.325                               |
| 10    | 2                | 83.7                     | 16                | 1994                          |                               | 475.638                               |
| 11    | 1                | 52.6                     | 16                |                               |                               | 849.631                               |
| 12    | 3                | 96.6                     | 16                | 1701                          | 1678                          | 845.254                               |
| 13    | 2                | 53.6                     | 16                | 1970                          |                               | 391.877                               |

Type 5 Radar Waveform\_22

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 69.9                     | 9                 | 1511                          | 1597                          | 673.439                               |
| 2     | 3                | 62                       | 9                 | 1200                          | 1046                          | 698.85                                |
| 3     | 1                | 50.2                     | 9                 |                               |                               | 340.93                                |
| 4     | 3                | 69.3                     | 9                 | 1793                          | 1559                          | 337.19                                |
| 5     | 2                | 86.7                     | 9                 | 1238                          |                               | 734.96                                |
| 6     | 2                | 92.9                     | 9                 | 1394                          |                               | 118.43                                |
| 7     | 1                | 73.9                     | 9                 |                               |                               | 219.73                                |
| 8     | 2                | 65                       | 9                 | 1279                          |                               | 491.09                                |
| 9     | 1                | 60.1                     | 9                 |                               |                               | 323.62                                |
| 10    | 2                | 72.2                     | 9                 | 1319                          |                               | 338.18                                |
| 11    | 2                | 63.9                     | 9                 | 1125                          |                               | 591.72                                |
| 12    | 2                | 57.4                     | 9                 | 1435                          |                               | 683.86                                |
| 13    | 2                | 67.7                     | 9                 | 1271                          |                               | 355.76                                |
| 14    | 3                | 51.9                     | 9                 | 1676                          | 1440                          | 203.42                                |
| 15    | 2                | 65.7                     | 9                 | 1099                          |                               | 261.9                                 |
| 16    | 2                | 64.6                     | 9                 | 1360                          |                               | 8.3                                   |



Type 5 Radar Waveform\_23

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 92.1                     | 6                 | 1514                          | 1564                          | 16.679                                |
| 2     | 2                | 73.1                     | 6                 | 1385                          |                               | 410.18                                |
| 3     | 2                | 67.9                     | 6                 | 1228                          |                               | 135.7                                 |
| 4     | 2                | 66.9                     | 6                 | 1287                          |                               | 455.96                                |
| 5     | 3                | 84.6                     | 6                 | 1200                          | 1173                          | 519.65                                |
| 6     | 3                | 90.9                     | 6                 | 1677                          | 1317                          | 144.5                                 |
| 7     | 3                | 65.4                     | 6                 | 1946                          | 1722                          | 250.73                                |
| 8     | 3                | 58.1                     | 6                 | 1740                          | 1161                          | 41.14                                 |
| 9     | 2                | 92.4                     | 6                 | 1172                          |                               | 523.84                                |
| 10    | 2                | 52.9                     | 6                 | 1649                          |                               | 103.78                                |
| 11    | 2                | 92.9                     | 6                 | 1794                          |                               | 329.95                                |
| 12    | 2                | 62.3                     | 6                 | 1166                          |                               | 323.11                                |
| 13    | 2                | 50.8                     | 6                 | 1732                          |                               | 340.59                                |
| 14    | 1                | 84.7                     | 6                 |                               |                               | 386.4                                 |
| 15    | 2                | 77.5                     | 6                 | 1764                          |                               | 545.8                                 |

Type 5 Radar Waveform\_24

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 67.2                     | 11                | 1440                          |                               | 704.435                               |
| 2     | 2                | 89.7                     | 11                | 1787                          |                               | 465.85                                |
| 3     | 1                | 98.2                     | 11                |                               |                               | 81.18                                 |
| 4     | 1                | 54.9                     | 11                |                               |                               | 119.69                                |
| 5     | 2                | 95.6                     | 11                | 1357                          |                               | 289.5                                 |
| 6     | 2                | 72.1                     | 11                | 1037                          |                               | 151.8                                 |
| 7     | 2                | 59.9                     | 11                | 1218                          |                               | 715                                   |
| 8     | 3                | 56.2                     | 11                | 1944                          | 1596                          | 322.94                                |
| 9     | 2                | 84.4                     | 11                | 1063                          |                               | 551.86                                |
| 10    | 2                | 64.6                     | 11                | 1948                          |                               | 311.8                                 |
| 11    | 3                | 56.5                     | 11                | 1007                          | 1500                          | 546.74                                |
| 12    | 2                | 78                       | 11                | 1251                          |                               | 68.1                                  |
| 13    | 1                | 96.1                     | 11                |                               |                               | 334.52                                |
| 14    | 2                | 61.9                     | 11                | 1583                          |                               | 323                                   |
| 15    | 2                | 72.2                     | 11                | 1037                          |                               | 618.7                                 |
| 16    | 1                | 76.9                     | 11                |                               |                               | 733.2                                 |

Type 5 Radar Waveform\_25

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 91.7                     | 18                | 1821                          | 1933                          | 355.922                               |
| 2     | 2                | 67.8                     | 18                | 1443                          |                               | 511.92                                |
| 3     | 1                | 62.1                     | 18                |                               |                               | 297.55                                |
| 4     | 2                | 71.1                     | 18                | 1085                          |                               | 141.27                                |
| 5     | 3                | 58.5                     | 18                | 1572                          | 1307                          | 494.22                                |
| 6     | 3                | 68.8                     | 18                | 1415                          | 1549                          | 702.65                                |
| 7     | 2                | 80.4                     | 18                | 1249                          |                               | 54.28                                 |
| 8     | 3                | 90.6                     | 18                | 1578                          | 1636                          | 736.31                                |
| 9     | 1                | 71.6                     | 18                |                               |                               | 733.41                                |
| 10    | 2                | 77.2                     | 18                | 1250                          |                               | 15.56                                 |
| 11    | 2                | 60.1                     | 18                | 1468                          |                               | 188.69                                |
| 12    | 3                | 94.2                     | 18                | 1055                          | 1838                          | 583.67                                |
| 13    | 3                | 82.8                     | 18                | 1546                          | 1798                          | 68.25                                 |
| 14    | 3                | 51.2                     | 18                | 1205                          | 1039                          | 461.8                                 |
| 15    | 2                | 68.1                     | 18                | 1716                          |                               | 500.8                                 |
| 16    | 2                | 94.9                     | 18                | 1885                          |                               | 669.2                                 |

Type 5 Radar Waveform\_26

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 97.6                     | 20                |                               |                               | 320.301                               |
| 2     | 3                | 86.7                     | 20                | 1299                          | 1571                          | 246.129                               |
| 3     | 3                | 83.4                     | 20                | 1854                          | 1051                          | 518.165                               |
| 4     | 1                | 63.3                     | 20                |                               |                               | 148.653                               |
| 5     | 2                | 89.5                     | 20                | 1734                          |                               | 421.351                               |
| 6     | 1                | 54                       | 20                |                               |                               | 545.968                               |
| 7     | 2                | 58.8                     | 20                | 1291                          |                               | 390.416                               |
| 8     | 2                | 63                       | 20                | 1392                          |                               | 474.244                               |
| 9     | 3                | 99.9                     | 20                | 1391                          | 1625                          | 274.581                               |
| 10    | 1                | 74.8                     | 20                |                               |                               | 525.479                               |
| 11    | 2                | 85.7                     | 20                | 1316                          |                               | 453.386                               |
| 12    | 2                | 85.7                     | 20                | 1718                          |                               | 251.284                               |
| 13    | 2                | 91                       | 20                | 1387                          |                               | 470.472                               |
| 14    | 1                | 68.6                     | 20                |                               |                               | 270.629                               |
| 15    | 1                | 93.2                     | 20                |                               |                               | 499.547                               |
| 16    | 2                | 55.9                     | 20                | 1537                          |                               | 147.365                               |
| 17    | 2                | 76.4                     | 20                | 1493                          |                               | 548.782                               |

Type 5 Radar Waveform\_27

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 2                | 60.5                     | 12                | 1764                          |                               | 163.286                               |
| 2     | 1                | 82                       | 12                |                               |                               | 225.087                               |
| 3     | 2                | 78                       | 12                | 1927                          |                               | 916.043                               |
| 4     | 1                | 80.5                     | 12                |                               |                               | 799.2                                 |
| 5     | 2                | 62.5                     | 12                | 1994                          |                               | 1155.417                              |
| 6     | 2                | 57.7                     | 12                | 1983                          |                               | 634.023                               |
| 7     | 3                | 97.2                     | 12                | 1211                          | 1205                          | 33.07                                 |
| 8     | 2                | 57.9                     | 12                | 1375                          |                               | 778.667                               |
| 9     | 2                | 56.9                     | 12                | 1923                          |                               | 699.233                               |

Type 5 Radar Waveform\_28

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 99.1                     | 16                |                               |                               | 360.172                               |
| 2     | 2                | 95.8                     | 16                | 1301                          |                               | 216.854                               |
| 3     | 3                | 81.3                     | 16                | 1865                          | 1768                          | 120.482                               |
| 4     | 3                | 53.7                     | 16                | 1761                          | 1968                          | 23.763                                |
| 5     | 1                | 76.8                     | 16                |                               |                               | 7.524                                 |
| 6     | 3                | 56.2                     | 16                | 1865                          | 1944                          | 530.965                               |
| 7     | 2                | 65.3                     | 16                | 1839                          |                               | 158.586                               |
| 8     | 1                | 97.7                     | 16                |                               |                               | 339.067                               |
| 9     | 2                | 86.3                     | 16                | 1297                          |                               | 561.088                               |
| 10    | 3                | 65.4                     | 16                | 1666                          | 1881                          | 429.149                               |
| 11    | 3                | 62.6                     | 16                | 1139                          | 1441                          | 236.871                               |
| 12    | 1                | 66.7                     | 16                |                               |                               | 73.232                                |
| 13    | 2                | 94.2                     | 16                | 1509                          |                               | 624.483                               |
| 14    | 1                | 66.5                     | 16                |                               |                               | 566.004                               |
| 15    | 2                | 67.4                     | 16                | 1860                          |                               | 319.855                               |
| 16    | 2                | 86.1                     | 16                | 1402                          |                               | 84.776                                |
| 17    | 2                | 90                       | 16                | 1414                          |                               | 117.237                               |
| 18    | 3                | 89.7                     | 16                | 1088                          | 1042                          | 39.258                                |
| 19    | 1                | 94.7                     | 16                |                               |                               | 269.279                               |

Type 5 Radar Waveform\_29

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 3                | 62.2                     | 13                | 1169                          | 1703                          | 798.419                               |
| 2     | 2                | 53.1                     | 13                | 1855                          |                               | 178.32                                |
| 3     | 3                | 91.6                     | 13                | 1034                          | 1663                          | 768.81                                |
| 4     | 2                | 81.3                     | 13                | 1930                          |                               | 773.87                                |
| 5     | 3                | 73.1                     | 13                | 1581                          | 1421                          | 374.63                                |
| 6     | 3                | 64.6                     | 13                | 1618                          | 1387                          | 809.26                                |
| 7     | 1                | 50.5                     | 13                |                               |                               | 349.84                                |
| 8     | 2                | 92.5                     | 13                | 1246                          |                               | 571.02                                |
| 9     | 2                | 82                       | 13                | 1479                          |                               | 942.2                                 |
| 10    | 1                | 90.5                     | 13                |                               |                               | 62.95                                 |
| 11    | 2                | 82                       | 13                | 1552                          |                               | 101.4                                 |
| 12    | 2                | 79.4                     | 13                | 1082                          |                               | 450.3                                 |

Type 5 Radar Waveform\_30

| Burst | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
|-------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| 1     | 1                | 94.6                     | 6                 |                               |                               | 276.777                               |
| 2     | 2                | 81.2                     | 6                 | 1893                          |                               | 768.99                                |
| 3     | 2                | 78.3                     | 6                 | 1216                          |                               | 150.59                                |
| 4     | 2                | 61.9                     | 6                 | 1629                          |                               | 724.29                                |
| 5     | 3                | 60.5                     | 6                 | 1432                          | 1892                          | 81.5                                  |
| 6     | 2                | 83.8                     | 6                 | 1100                          |                               | 700.21                                |
| 7     | 3                | 52                       | 6                 | 1393                          | 1501                          | 323.79                                |
| 8     | 1                | 92.3                     | 6                 |                               |                               | 291.1                                 |
| 9     | 2                | 57.8                     | 6                 | 1554                          |                               | 47.26                                 |
| 10    | 2                | 75.8                     | 6                 | 1362                          |                               | 952.1                                 |
| 11    | 1                | 84.5                     | 6                 |                               |                               | 105.7                                 |
| 12    | 3                | 93.2                     | 6                 | 1085                          | 1026                          | 322.6                                 |

## Radar Type 6 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5491                | 1                             | 16      | 5570                | 1                             |
| 2                        | 5500                | 1                             | 17      | 5571                | 1                             |
| 3                        | 5509                | 1                             | 18      | 5580                | 1                             |
| 4                        | 5510                | 1                             | 19      | 5589                | 1                             |
| 5                        | 5511                | 1                             | 20      | 5590                | 1                             |
| 6                        | 5520                | 1                             | 21      | 5591                | 1                             |
| 7                        | 5529                | 1                             | 22      | 5600                | 1                             |
| 8                        | 5530                | 1                             | 23      | 5609                | 1                             |
| 9                        | 5531                | 1                             | 24      | 5610                | 1                             |
| 10                       | 5540                | 1                             | 25      | 5611                | 1                             |
| 11                       | 5549                | 1                             | 26      | 5620                | 1                             |
| 12                       | 5550                | 1                             | 27      | 5629                | 1                             |
| 13                       | 5551                | 1                             | 28      | 5630                | 1                             |
| 14                       | 5560                | 1                             | 29      | 5640                | 1                             |
| 15                       | 5569                | 1                             | 30      | 5649                | 1                             |
| Detection Percentage (%) |                     |                               |         |                     | 100%                          |

| Radar waveform #1 |                 |                  | Radar waveform #2 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 2                 | 5592            | 6                | 1                 | 5558            | 3                |
| 5                 | 5516            | 15               | 4                 | 5549            | 12               |
| 6                 | 5523            | 18               | 5                 | 5632            | 15               |
| 7                 | 5582            | 21               | 9                 | 5495            | 27               |
| 8                 | 5648            | 24               | 12                | 5576            | 36               |
| 9                 | 5615            | 27               | 15                | 5561            | 45               |
| 11                | 5606            | 33               | 18                | 5557            | 54               |
| 13                | 5616            | 39               | 21                | 5523            | 63               |
| 15                | 5632            | 45               | 23                | 5505            | 69               |
| 17                | 5573            | 51               | 27                | 5572            | 81               |
| 22                | 5545            | 66               | 28                | 5547            | 84               |
| 23                | 5566            | 69               | 30                | 5527            | 90               |
| 24                | 5498            | 72               | 31                | 5611            | 93               |
| 25                | 5645            | 75               | 34                | 5602            | 102              |
| 26                | 5594            | 78               | 36                | 5526            | 108              |
| 32                | 5517            | 96               | 37                | 5615            | 111              |
| 33                | 5541            | 99               | 38                | 5504            | 114              |
| 34                | 5491            | 102              | 39                | 5608            | 117              |
| 37                | 5640            | 111              | 42                | 5619            | 126              |
| 39                | 5559            | 117              | 44                | 5637            | 132              |
| 40                | 5494            | 120              | 47                | 5519            | 141              |
| 41                | 5506            | 123              | 53                | 5646            | 159              |
| 44                | 5609            | 132              | 59                | 5600            | 177              |
| 45                | 5587            | 135              | 60                | 5601            | 180              |
| 47                | 5551            | 141              | 62                | 5563            | 186              |
| 50                | 5650            | 150              | 64                | 5499            | 192              |
| 51                | 5500            | 153              | 67                | 5584            | 201              |
| 53                | 5560            | 159              | 70                | 5546            | 210              |
| 58                | 5512            | 174              | 71                | 5517            | 213              |
| 59                | 5547            | 177              | 75                | 5635            | 225              |
| 61                | 5635            | 183              | 80                | 5644            | 240              |
| 62                | 5581            | 186              | 81                | 5588            | 243              |
| 64                | 5496            | 192              | 82                | 5641            | 246              |
| 66                | 5507            | 198              | 84                | 5591            | 252              |

|     |      |     |     |      |     |
|-----|------|-----|-----|------|-----|
| 67  | 5536 | 201 | 85  | 5529 | 255 |
| 71  | 5603 | 213 | 91  | 5520 | 273 |
| 73  | 5607 | 219 | 95  | 5491 | 285 |
| 74  | 5510 | 222 | 98  | 5541 | 294 |
| 75  | 5598 | 225 | 100 | 5503 | 300 |
| 78  | 5577 | 234 | --  | --   | --  |
| 81  | 5591 | 243 | --  | --   | --  |
| 82  | 5638 | 246 | --  | --   | --  |
| 86  | 5623 | 258 | --  | --   | --  |
| 89  | 5584 | 267 | --  | --   | --  |
| 92  | 5620 | 276 | --  | --   | --  |
| 93  | 5527 | 279 | --  | --   | --  |
| 97  | 5628 | 291 | --  | --   | --  |
| 98  | 5625 | 294 | --  | --   | --  |
| 99  | 5557 | 297 | --  | --   | --  |
| 100 | 5553 | 300 | --  | --   | --  |

| Radar waveform #3 |                 |                  | Radar waveform #4 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 3                 | 5609            | 9                | 6                 | 5528            | 18               |
| 12                | 5548            | 36               | 8                 | 5556            | 24               |
| 17                | 5592            | 51               | 9                 | 5557            | 27               |
| 19                | 5524            | 57               | 10                | 5555            | 30               |
| 21                | 5637            | 63               | 21                | 5527            | 63               |
| 22                | 5573            | 66               | 22                | 5582            | 66               |
| 23                | 5541            | 69               | 23                | 5574            | 69               |
| 28                | 5498            | 84               | 33                | 5570            | 99               |
| 30                | 5598            | 90               | 37                | 5534            | 111              |
| 31                | 5638            | 93               | 38                | 5533            | 114              |
| 36                | 5599            | 108              | 39                | 5497            | 117              |
| 38                | 5500            | 114              | 40                | 5502            | 120              |
| 40                | 5646            | 120              | 44                | 5629            | 132              |
| 42                | 5564            | 126              | 45                | 5627            | 135              |
| 45                | 5623            | 135              | 47                | 5613            | 141              |
| 47                | 5597            | 141              | 53                | 5626            | 159              |
| 48                | 5565            | 144              | 54                | 5538            | 162              |



|    |      |     |     |      |     |
|----|------|-----|-----|------|-----|
| 49 | 5643 | 147 | 58  | 5544 | 174 |
| 50 | 5512 | 150 | 61  | 5514 | 183 |
| 54 | 5616 | 162 | 67  | 5500 | 201 |
| 56 | 5594 | 168 | 70  | 5605 | 210 |
| 61 | 5510 | 183 | 73  | 5553 | 219 |
| 65 | 5534 | 195 | 74  | 5523 | 222 |
| 72 | 5629 | 216 | 75  | 5496 | 225 |
| 75 | 5567 | 225 | 76  | 5596 | 228 |
| 76 | 5600 | 228 | 79  | 5636 | 237 |
| 78 | 5513 | 234 | 80  | 5490 | 240 |
| 79 | 5620 | 237 | 82  | 5632 | 246 |
| 89 | 5523 | 267 | 83  | 5640 | 249 |
| 90 | 5647 | 270 | 85  | 5625 | 255 |
| 92 | 5590 | 276 | 86  | 5550 | 258 |
| -- | --   | --  | 89  | 5573 | 267 |
| -- | --   | --  | 90  | 5643 | 270 |
| -- | --   | --  | 91  | 5522 | 273 |
| -- | --   | --  | 93  | 5579 | 279 |
| -- | --   | --  | 99  | 5641 | 297 |
| -- | --   | --  | 100 | 5614 | 300 |

| Radar waveform #5 |                 |                  | Radar waveform #6 |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 1                 | 5635            | 3                | 6                 | 5509            | 18               |
| 2                 | 5562            | 6                | 8                 | 5634            | 24               |
| 3                 | 5498            | 9                | 13                | 5596            | 39               |
| 4                 | 5604            | 12               | 15                | 5548            | 45               |
| 5                 | 5503            | 15               | 17                | 5650            | 51               |
| 10                | 5545            | 30               | 21                | 5568            | 63               |
| 11                | 5553            | 33               | 22                | 5639            | 66               |
| 13                | 5619            | 39               | 35                | 5501            | 105              |
| 22                | 5530            | 66               | 39                | 5617            | 117              |
| 24                | 5638            | 72               | 41                | 5563            | 123              |
| 25                | 5551            | 75               | 43                | 5613            | 129              |
| 27                | 5621            | 81               | 43                | 5613            | 129              |
| 30                | 5501            | 90               | 44                | 5550            | 132              |



|                   |                 |                  |                   |                 |                  |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| 34                | 5536            | 102              | 48                | 5538            | 144              |
| 42                | 5547            | 126              | 55                | 5532            | 165              |
| 52                | 5559            | 156              | 56                | 5649            | 168              |
| 57                | 5569            | 171              | 58                | 5605            | 174              |
| 59                | 5561            | 177              | 65                | 5556            | 195              |
| 60                | 5579            | 180              | 67                | 5638            | 201              |
| 62                | 5493            | 186              | 73                | 5522            | 219              |
| 64                | 5608            | 192              | 76                | 5640            | 228              |
| 65                | 5595            | 195              | 77                | 5525            | 231              |
| 66                | 5614            | 198              | 79                | 5646            | 237              |
| 69                | 5527            | 207              | 80                | 5524            | 240              |
| 71                | 5620            | 213              | 83                | 5539            | 249              |
| 72                | 5542            | 216              | 88                | 5616            | 264              |
| 75                | 5515            | 225              | 89                | 5593            | 267              |
| 76                | 5606            | 228              | 91                | 5641            | 273              |
| 82                | 5550            | 246              | 94                | 5516            | 282              |
| 83                | 5520            | 249              | 97                | 5627            | 291              |
| 88                | 5502            | 264              | 98                | 5529            | 294              |
| 89                | 5632            | 267              | --                | --              | --               |
| 94                | 5630            | 282              | --                | --              | --               |
| 95                | 5564            | 285              | --                | --              | --               |
| 100               | 5628            | 300              | --                | --              | --               |
| Radar waveform #7 |                 |                  | Radar waveform #8 |                 |                  |
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number    | Frequency (MHz) | Pulse Start (ms) |
| 4                 | 5602            | 12               | 2                 | 5627            | 6                |
| 16                | 5553            | 48               | 4                 | 5650            | 12               |
| 21                | 5500            | 63               | 5                 | 5561            | 15               |
| 25                | 5491            | 75               | 8                 | 5597            | 24               |
| 27                | 5535            | 81               | 12                | 5509            | 36               |
| 28                | 5555            | 84               | 19                | 5535            | 57               |
| 34                | 5599            | 102              | 20                | 5557            | 60               |
| 35                | 5617            | 105              | 23                | 5580            | 69               |
| 38                | 5522            | 114              | 33                | 5632            | 99               |
| 40                | 5594            | 120              | 43                | 5596            | 129              |
| 43                | 5564            | 129              | 46                | 5637            | 138              |
| 44                | 5635            | 132              | 49                | 5494            | 147              |

|     |      |     |    |      |     |
|-----|------|-----|----|------|-----|
| 46  | 5492 | 138 | 50 | 5634 | 150 |
| 50  | 5583 | 150 | 54 | 5491 | 162 |
| 55  | 5539 | 165 | 61 | 5625 | 183 |
| 56  | 5643 | 168 | 62 | 5562 | 186 |
| 59  | 5632 | 177 | 68 | 5611 | 204 |
| 66  | 5641 | 198 | 69 | 5605 | 207 |
| 69  | 5560 | 207 | 72 | 5502 | 216 |
| 72  | 5521 | 216 | 74 | 5600 | 222 |
| 74  | 5550 | 222 | 78 | 5501 | 234 |
| 77  | 5608 | 231 | 84 | 5640 | 252 |
| 78  | 5574 | 234 | 92 | 5581 | 276 |
| 79  | 5543 | 237 | 93 | 5522 | 279 |
| 84  | 5607 | 252 | 96 | 5493 | 288 |
| 89  | 5566 | 267 | 97 | 5505 | 291 |
| 93  | 5563 | 279 | -- | --   | --  |
| 94  | 5494 | 282 | -- | --   | --  |
| 97  | 5636 | 291 | -- | --   | --  |
| 100 | 5595 | 300 | -- | --   | --  |

| Radar waveform #9 |                 |                  | Radar waveform #10 |                 |                  |
|-------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number    | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 1                 | 5526            | 3                | 1                  | 5.562           | 3                |
| 3                 | 5591            | 9                | 2                  | 5.499           | 6                |
| 5                 | 5533            | 15               | 4                  | 5.539           | 12               |
| 6                 | 5606            | 18               | 5                  | 5.626           | 15               |
| 13                | 5564            | 39               | 8                  | 5.586           | 24               |
| 17                | 5612            | 51               | 10                 | 5.502           | 30               |
| 22                | 5562            | 66               | 20                 | 5.573           | 60               |
| 29                | 5548            | 87               | 21                 | 5.547           | 63               |
| 31                | 5629            | 93               | 24                 | 5.5             | 72               |
| 35                | 5579            | 105              | 29                 | 5.522           | 87               |
| 36                | 5538            | 108              | 34                 | 5.521           | 102              |
| 38                | 5552            | 114              | 40                 | 5.593           | 120              |
| 44                | 5514            | 132              | 42                 | 5.584           | 126              |
| 47                | 5580            | 141              | 44                 | 5.592           | 132              |
| 48                | 5603            | 144              | 46                 | 5.551           | 138              |

|     |      |     |     |       |     |
|-----|------|-----|-----|-------|-----|
| 56  | 5645 | 168 | 52  | 5.541 | 156 |
| 63  | 5644 | 189 | 53  | 5.556 | 159 |
| 68  | 5559 | 204 | 56  | 5.51  | 168 |
| 69  | 5495 | 207 | 59  | 5.491 | 177 |
| 70  | 5557 | 210 | 62  | 5.609 | 186 |
| 72  | 5523 | 216 | 68  | 5.625 | 204 |
| 77  | 5605 | 231 | 70  | 5.529 | 210 |
| 81  | 5518 | 243 | 71  | 5.631 | 213 |
| 86  | 5519 | 258 | 72  | 5.552 | 216 |
| 90  | 5616 | 270 | 75  | 5.575 | 225 |
| 91  | 5531 | 273 | 76  | 5.637 | 228 |
| 92  | 5608 | 276 | 79  | 5.59  | 237 |
| 95  | 5647 | 285 | 85  | 5.647 | 255 |
| 97  | 5617 | 291 | 86  | 5.566 | 258 |
| 99  | 5577 | 297 | 87  | 5.582 | 261 |
| 100 | 5551 | 300 | 88  | 5.494 | 264 |
| --  | --   | --  | 89  | 5.49  | 267 |
| --  | --   | --  | 93  | 5.569 | 279 |
| --  | --   | --  | 100 | 5.505 | 300 |

| Radar waveform #11 |                 |                  | Radar waveform #12 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 1                  | 5540            | 3                | 3                  | 5553            | 9                |
| 5                  | 5641            | 15               | 5                  | 5490            | 15               |
| 7                  | 5498            | 21               | 6                  | 5573            | 18               |
| 8                  | 5538            | 24               | 11                 | 5511            | 33               |
| 10                 | 5513            | 30               | 13                 | 5576            | 39               |
| 13                 | 5542            | 39               | 15                 | 5562            | 45               |
| 17                 | 5533            | 51               | 16                 | 5634            | 48               |
| 19                 | 5499            | 57               | 20                 | 5501            | 60               |
| 20                 | 5650            | 60               | 29                 | 5550            | 87               |
| 23                 | 5532            | 69               | 31                 | 5595            | 93               |
| 25                 | 5584            | 75               | 39                 | 5530            | 117              |
| 29                 | 5548            | 87               | 44                 | 5639            | 132              |
| 30                 | 5528            | 90               | 47                 | 5613            | 141              |
| 34                 | 5574            | 102              | 48                 | 5581            | 144              |
| 37                 | 5643            | 111              | 49                 | 5544            | 147              |
| 40                 | 5546            | 120              | 51                 | 5574            | 153              |
| 41                 | 5649            | 123              | 52                 | 5608            | 156              |
| 47                 | 5553            | 141              | 54                 | 5506            | 162              |
| 49                 | 5534            | 147              | 57                 | 5577            | 171              |
| 52                 | 5524            | 156              | 59                 | 5513            | 177              |
| 54                 | 5647            | 162              | 63                 | 5630            | 189              |
| 59                 | 5606            | 177              | 70                 | 5627            | 210              |
| 64                 | 5627            | 192              | 72                 | 5557            | 216              |
| 65                 | 5570            | 195              | 73                 | 5560            | 219              |
| 67                 | 5620            | 201              | 74                 | 5507            | 222              |
| 72                 | 5494            | 216              | 78                 | 5493            | 234              |
| 77                 | 5608            | 231              | 80                 | 5540            | 240              |
| 81                 | 5545            | 243              | 85                 | 5571            | 255              |
| 83                 | 5612            | 249              | 90                 | 5531            | 270              |
| 84                 | 5505            | 252              | 91                 | 5556            | 273              |
| 87                 | 5648            | 261              | 92                 | 5611            | 276              |
| 88                 | 5579            | 264              | 96                 | 5637            | 288              |
| 90                 | 5609            | 270              | 97                 | 5587            | 291              |
| 91                 | 5502            | 273              | 99                 | 5536            | 297              |

|     |      |     |    |    |    |
|-----|------|-----|----|----|----|
| 94  | 5572 | 282 | -- | -- | -- |
| 96  | 5497 | 288 | -- | -- | -- |
| 99  | 5646 | 297 | -- | -- | -- |
| 100 | 5637 | 300 | -- | -- | -- |

| Radar waveform #13 |                 |                  | Radar waveform #14 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 1                  | 5595            | 3                | 5                  | 5643            | 15               |
| 3                  | 5647            | 9                | 6                  | 5634            | 18               |
| 7                  | 5602            | 21               | 7                  | 5584            | 21               |
| 9                  | 5521            | 27               | 10                 | 5611            | 30               |
| 10                 | 5613            | 30               | 12                 | 5561            | 36               |
| 12                 | 5494            | 36               | 17                 | 5636            | 51               |
| 24                 | 5625            | 72               | 22                 | 5494            | 66               |
| 30                 | 5614            | 90               | 25                 | 5610            | 75               |
| 33                 | 5605            | 99               | 31                 | 5606            | 93               |
| 36                 | 5604            | 108              | 35                 | 5549            | 105              |
| 40                 | 5568            | 120              | 37                 | 5589            | 111              |
| 41                 | 5527            | 123              | 39                 | 5608            | 117              |
| 42                 | 5606            | 126              | 40                 | 5541            | 120              |
| 52                 | 5620            | 156              | 43                 | 5607            | 129              |
| 55                 | 5629            | 165              | 45                 | 5586            | 135              |
| 58                 | 5637            | 174              | 47                 | 5599            | 141              |
| 59                 | 5616            | 177              | 49                 | 5500            | 147              |
| 60                 | 5578            | 180              | 50                 | 5630            | 150              |
| 64                 | 5496            | 192              | 58                 | 5648            | 174              |
| 67                 | 5512            | 201              | 62                 | 5551            | 186              |
| 68                 | 5584            | 204              | 67                 | 5521            | 201              |
| 69                 | 5573            | 207              | 72                 | 5632            | 216              |
| 72                 | 5550            | 216              | 76                 | 5585            | 228              |
| 75                 | 5529            | 225              | 77                 | 5565            | 231              |
| 76                 | 5532            | 228              | 78                 | 5633            | 234              |
| 78                 | 5644            | 234              | 80                 | 5497            | 240              |
| 80                 | 5553            | 240              | 81                 | 5514            | 243              |
| 84                 | 5506            | 252              | 85                 | 5644            | 255              |
| 86                 | 5530            | 258              | 86                 | 5638            | 258              |

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|    |      |     |    |      |     |
|----|------|-----|----|------|-----|
| 87 | 5591 | 261 | 88 | 5613 | 264 |
| 90 | 5603 | 270 | 89 | 5649 | 267 |
| 93 | 5598 | 279 | -- | --   | --  |
| 95 | 5522 | 285 | -- | --   | --  |
| 97 | 5624 | 291 | -- | --   | --  |

| Radar waveform #15 |                 |                  | Radar waveform #16 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 1                  | 5494            | 3                | 2                  | 5572            | 6                |
| 2                  | 5496            | 6                | 4                  | 5539            | 12               |
| 4                  | 5639            | 12               | 8                  | 5529            | 24               |
| 8                  | 5607            | 24               | 9                  | 5552            | 27               |
| 9                  | 5625            | 27               | 11                 | 5553            | 33               |
| 15                 | 5565            | 45               | 12                 | 5605            | 36               |
| 18                 | 5529            | 54               | 14                 | 5493            | 42               |
| 20                 | 5548            | 60               | 18                 | 5619            | 54               |
| 23                 | 5497            | 69               | 19                 | 5528            | 57               |
| 24                 | 5602            | 72               | 22                 | 5617            | 66               |
| 27                 | 5555            | 81               | 24                 | 5505            | 72               |
| 30                 | 5490            | 90               | 29                 | 5649            | 87               |
| 37                 | 5609            | 111              | 30                 | 5603            | 90               |
| 41                 | 5615            | 123              | 31                 | 5621            | 93               |
| 43                 | 5644            | 129              | 33                 | 5610            | 99               |
| 45                 | 5618            | 135              | 42                 | 5629            | 126              |
| 47                 | 5516            | 141              | 56                 | 5589            | 168              |
| 50                 | 5550            | 150              | 57                 | 5573            | 171              |
| 51                 | 5558            | 153              | 58                 | 5592            | 174              |
| 53                 | 5556            | 159              | 61                 | 5506            | 183              |
| 59                 | 5585            | 177              | 63                 | 5616            | 189              |
| 61                 | 5580            | 183              | 67                 | 5593            | 201              |
| 62                 | 5617            | 186              | 73                 | 5491            | 219              |
| 63                 | 5508            | 189              | 79                 | 5507            | 237              |
| 64                 | 5620            | 192              | 84                 | 5530            | 252              |
| 66                 | 5499            | 198              | 90                 | 5627            | 270              |
| 67                 | 5534            | 201              | 93                 | 5582            | 279              |
| 68                 | 5629            | 204              | 94                 | 5580            | 282              |
| 70                 | 5621            | 210              | 97                 | 5618            | 291              |
| 79                 | 5640            | 237              | 98                 | 5626            | 294              |
| 81                 | 5593            | 243              | 100                | 5639            | 300              |
| 83                 | 5630            | 249              | --                 | --              | --               |
| 96                 | 5527            | 288              | --                 | --              | --               |
| 97                 | 5495            | 291              | --                 | --              | --               |



|    |      |     |    |    |    |
|----|------|-----|----|----|----|
| 99 | 5600 | 297 | -- | -- | -- |
|----|------|-----|----|----|----|

| Radar waveform #17 |                 |                  | Radar waveform #18 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 2                  | 5580            | 6                | 2                  | 5528            | 6                |
| 3                  | 5545            | 9                | 4                  | 5508            | 12               |
| 4                  | 5551            | 12               | 11                 | 5585            | 33               |
| 6                  | 5510            | 18               | 14                 | 5520            | 42               |
| 9                  | 5538            | 27               | 18                 | 5547            | 54               |
| 12                 | 5649            | 36               | 19                 | 5590            | 57               |
| 13                 | 5559            | 39               | 20                 | 5629            | 60               |
| 14                 | 5493            | 42               | 21                 | 5604            | 63               |
| 17                 | 5601            | 51               | 22                 | 5535            | 66               |
| 19                 | 5624            | 57               | 24                 | 5634            | 72               |
| 20                 | 5603            | 60               | 27                 | 5624            | 81               |
| 22                 | 5568            | 66               | 28                 | 5570            | 84               |
| 24                 | 5621            | 72               | 29                 | 5637            | 87               |
| 30                 | 5533            | 90               | 32                 | 5505            | 96               |
| 31                 | 5638            | 93               | 35                 | 5584            | 105              |
| 33                 | 5518            | 99               | 36                 | 5577            | 108              |
| 36                 | 5641            | 108              | 44                 | 5620            | 132              |
| 42                 | 5598            | 126              | 46                 | 5558            | 138              |
| 46                 | 5558            | 138              | 47                 | 5533            | 141              |
| 47                 | 5525            | 141              | 51                 | 5596            | 153              |
| 49                 | 5615            | 147              | 52                 | 5499            | 156              |
| 51                 | 5532            | 153              | 53                 | 5551            | 159              |
| 52                 | 5503            | 156              | 54                 | 5609            | 162              |
| 64                 | 5550            | 192              | 61                 | 5529            | 183              |
| 67                 | 5570            | 201              | 69                 | 5578            | 207              |
| 73                 | 5505            | 219              | 73                 | 5641            | 219              |
| 75                 | 5506            | 225              | 76                 | 5532            | 228              |
| 76                 | 5519            | 228              | 78                 | 5594            | 234              |
| 79                 | 5626            | 237              | 80                 | 5582            | 240              |
| 80                 | 5572            | 240              | 81                 | 5566            | 243              |
| 83                 | 5549            | 249              | 83                 | 5581            | 249              |
| 84                 | 5517            | 252              | 86                 | 5580            | 258              |

|    |      |     |    |      |     |
|----|------|-----|----|------|-----|
| 86 | 5613 | 258 | 89 | 5560 | 267 |
| 91 | 5557 | 273 | 95 | 5626 | 285 |
| 94 | 5605 | 282 | 99 | 5537 | 297 |
| 95 | 5502 | 285 | -- | --   | --  |
| 97 | 5631 | 291 | -- | --   | --  |

| Radar waveform #19 |                 |                  | Radar waveform #20 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 4                  | 5576            | 12               | 4                  | 5563            | 12               |
| 7                  | 5563            | 21               | 5                  | 5641            | 15               |
| 8                  | 5510            | 24               | 7                  | 5594            | 21               |
| 12                 | 5493            | 36               | 9                  | 5600            | 27               |
| 14                 | 5505            | 42               | 11                 | 5502            | 33               |
| 18                 | 5545            | 54               | 13                 | 5513            | 39               |
| 22                 | 5532            | 66               | 14                 | 5542            | 42               |
| 23                 | 5617            | 69               | 15                 | 5646            | 45               |
| 29                 | 5537            | 87               | 20                 | 5555            | 60               |
| 32                 | 5614            | 96               | 24                 | 5501            | 72               |
| 38                 | 5530            | 114              | 25                 | 5521            | 75               |
| 40                 | 5538            | 120              | 37                 | 5638            | 111              |
| 41                 | 5601            | 123              | 38                 | 5557            | 114              |
| 43                 | 5529            | 129              | 39                 | 5642            | 117              |
| 44                 | 5513            | 132              | 45                 | 5517            | 135              |
| 45                 | 5541            | 135              | 49                 | 5574            | 147              |
| 48                 | 5524            | 144              | 56                 | 5499            | 168              |
| 49                 | 5540            | 147              | 60                 | 5550            | 180              |
| 50                 | 5580            | 150              | 62                 | 5611            | 186              |
| 52                 | 5648            | 156              | 69                 | 5564            | 207              |
| 56                 | 5519            | 168              | 73                 | 5518            | 219              |
| 58                 | 5504            | 174              | 74                 | 5635            | 222              |
| 61                 | 5627            | 183              | 75                 | 5520            | 225              |
| 63                 | 5588            | 189              | 76                 | 5547            | 228              |
| 65                 | 5607            | 195              | 80                 | 5525            | 240              |
| 67                 | 5577            | 201              | 82                 | 5545            | 246              |
| 71                 | 5550            | 213              | 85                 | 5592            | 255              |
| 74                 | 5629            | 222              | 88                 | 5570            | 264              |

|    |      |     |     |      |     |
|----|------|-----|-----|------|-----|
| 76 | 5630 | 228 | 91  | 5528 | 273 |
| 78 | 5625 | 234 | 94  | 5585 | 282 |
| 79 | 5573 | 237 | 95  | 5599 | 285 |
| 80 | 5508 | 240 | 100 | 5643 | 300 |
| 82 | 5583 | 246 | --  | --   | --  |
| 85 | 5612 | 255 | --  | --   | --  |
| 87 | 5631 | 261 | --  | --   | --  |
| 89 | 5548 | 267 | --  | --   | --  |
| 92 | 5520 | 276 | --  | --   | --  |
| 94 | 5490 | 282 | --  | --   | --  |
| 97 | 5514 | 291 | --  | --   | --  |
| 98 | 5501 | 294 | --  | --   | --  |

| Radar waveform #21 |                 |                  | Radar waveform #22 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 1                  | 5587            | 3                | 3                  | 5610            | 9                |
| 2                  | 5538            | 6                | 6                  | 5577            | 18               |
| 11                 | 5605            | 33               | 8                  | 5490            | 24               |
| 15                 | 5522            | 45               | 9                  | 5581            | 27               |
| 17                 | 5565            | 51               | 10                 | 5572            | 30               |
| 22                 | 5547            | 66               | 11                 | 5611            | 33               |
| 29                 | 5615            | 87               | 15                 | 5571            | 45               |
| 30                 | 5524            | 90               | 16                 | 5554            | 48               |
| 31                 | 5512            | 93               | 18                 | 5582            | 54               |
| 34                 | 5531            | 102              | 21                 | 5633            | 63               |
| 36                 | 5595            | 108              | 25                 | 5619            | 75               |
| 37                 | 5495            | 111              | 26                 | 5636            | 78               |
| 38                 | 5575            | 114              | 36                 | 5502            | 108              |
| 40                 | 5546            | 120              | 40                 | 5493            | 120              |
| 41                 | 5499            | 123              | 43                 | 5558            | 129              |
| 43                 | 5526            | 129              | 57                 | 5506            | 171              |
| 46                 | 5574            | 138              | 60                 | 5504            | 180              |
| 47                 | 5601            | 141              | 65                 | 5550            | 195              |
| 51                 | 5554            | 153              | 67                 | 5600            | 201              |
| 54                 | 5580            | 162              | 70                 | 5529            | 210              |
| 55                 | 5553            | 165              | 72                 | 5551            | 216              |
| 56                 | 5509            | 168              | 73                 | 5496            | 219              |
| 58                 | 5644            | 174              | 75                 | 5593            | 225              |
| 61                 | 5496            | 183              | 78                 | 5544            | 234              |
| 62                 | 5609            | 186              | 80                 | 5621            | 240              |
| 65                 | 5506            | 195              | 84                 | 5536            | 252              |
| 66                 | 5519            | 198              | 85                 | 5597            | 255              |
| 79                 | 5555            | 237              | 90                 | 5602            | 270              |
| 86                 | 5640            | 258              | 91                 | 5583            | 273              |
| 91                 | 5566            | 273              | 94                 | 5648            | 282              |
| 96                 | 5507            | 288              | 100                | 5520            | 300              |

| Radar waveform #23 |                 |                  | Radar waveform #24 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 2                  | 5581            | 6                | 2                  | 5572            | 6                |
| 4                  | 5582            | 12               | 5                  | 5509            | 15               |
| 6                  | 5565            | 18               | 8                  | 5492            | 24               |
| 7                  | 5631            | 21               | 11                 | 5502            | 33               |
| 11                 | 5574            | 33               | 15                 | 5567            | 45               |
| 15                 | 5524            | 45               | 20                 | 5641            | 60               |
| 19                 | 5588            | 57               | 21                 | 5611            | 63               |
| 22                 | 5602            | 66               | 24                 | 5585            | 72               |
| 23                 | 5564            | 69               | 25                 | 5580            | 75               |
| 28                 | 5638            | 84               | 29                 | 5491            | 87               |
| 29                 | 5626            | 87               | 32                 | 5557            | 96               |
| 30                 | 5537            | 90               | 40                 | 5593            | 120              |
| 31                 | 5535            | 93               | 42                 | 5635            | 126              |
| 33                 | 5522            | 99               | 44                 | 5516            | 132              |
| 38                 | 5526            | 114              | 45                 | 5609            | 135              |
| 45                 | 5558            | 135              | 48                 | 5562            | 144              |
| 48                 | 5511            | 144              | 49                 | 5520            | 147              |
| 49                 | 5629            | 147              | 50                 | 5553            | 150              |
| 56                 | 5527            | 168              | 53                 | 5504            | 159              |
| 58                 | 5551            | 174              | 55                 | 5622            | 165              |
| 59                 | 5531            | 177              | 64                 | 5582            | 192              |
| 63                 | 5584            | 189              | 65                 | 5551            | 195              |
| 64                 | 5624            | 192              | 69                 | 5613            | 207              |
| 71                 | 5580            | 213              | 73                 | 5612            | 219              |
| 72                 | 5556            | 216              | 74                 | 5542            | 222              |
| 73                 | 5633            | 219              | 75                 | 5596            | 225              |
| 74                 | 5617            | 222              | 76                 | 5627            | 228              |
| 77                 | 5630            | 231              | 78                 | 5603            | 234              |
| 81                 | 5601            | 243              | 79                 | 5626            | 237              |
| 83                 | 5506            | 249              | 82                 | 5633            | 246              |
| 86                 | 5507            | 258              | 84                 | 5570            | 252              |
| 88                 | 5514            | 264              | 85                 | 5642            | 255              |
| 92                 | 5569            | 276              | 87                 | 5534            | 261              |
| 95                 | 5561            | 285              | 88                 | 5587            | 264              |

|    |      |     |    |      |     |
|----|------|-----|----|------|-----|
| 97 | 5604 | 291 | 89 | 5539 | 267 |
| -- | --   | --  | 90 | 5636 | 270 |
| -- | --   | --  | 93 | 5548 | 279 |
| -- | --   | --  | 94 | 5543 | 282 |
| -- | --   | --  | 95 | 5576 | 285 |

| Radar waveform #25 |                 |                  | Radar waveform #26 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 4                  | 5521            | 12               | 3                  | 5624            | 9                |
| 5                  | 5590            | 15               | 5                  | 5630            | 15               |
| 6                  | 5554            | 18               | 6                  | 5616            | 18               |
| 7                  | 5510            | 21               | 14                 | 5596            | 42               |
| 9                  | 5522            | 27               | 16                 | 5509            | 48               |
| 10                 | 5580            | 30               | 19                 | 5589            | 57               |
| 12                 | 5606            | 36               | 21                 | 5569            | 63               |
| 13                 | 5518            | 39               | 27                 | 5643            | 81               |
| 14                 | 5631            | 42               | 29                 | 5599            | 87               |
| 22                 | 5587            | 66               | 34                 | 5557            | 102              |
| 24                 | 5553            | 72               | 45                 | 5608            | 135              |
| 27                 | 5512            | 81               | 47                 | 5614            | 141              |
| 30                 | 5543            | 90               | 53                 | 5568            | 159              |
| 31                 | 5511            | 93               | 57                 | 5619            | 171              |
| 33                 | 5499            | 99               | 62                 | 5527            | 186              |
| 34                 | 5542            | 102              | 66                 | 5516            | 198              |
| 35                 | 5544            | 105              | 67                 | 5578            | 201              |
| 37                 | 5650            | 111              | 68                 | 5558            | 204              |
| 41                 | 5617            | 123              | 70                 | 5645            | 210              |
| 47                 | 5600            | 141              | 73                 | 5503            | 219              |
| 56                 | 5605            | 168              | 74                 | 5647            | 222              |
| 61                 | 5621            | 183              | 80                 | 5648            | 240              |
| 63                 | 5626            | 189              | 81                 | 5642            | 243              |
| 66                 | 5633            | 198              | 87                 | 5650            | 261              |
| 69                 | 5533            | 207              | 88                 | 5574            | 264              |
| 72                 | 5545            | 216              | 95                 | 5507            | 285              |
| 80                 | 5630            | 240              | --                 | --              | --               |
| 81                 | 5547            | 243              | --                 | --              | --               |

|    |      |     |    |    |    |
|----|------|-----|----|----|----|
| 87 | 5622 | 261 | -- | -- | -- |
| 89 | 5573 | 267 | -- | -- | -- |
| 99 | 5618 | 297 | -- | -- | -- |

| Radar waveform #27 |                 |                  | Radar waveform #28 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 3                  | 5524            | 9                | 6                  | 5525            | 18               |
| 4                  | 5564            | 12               | 8                  | 5531            | 24               |
| 10                 | 5535            | 30               | 10                 | 5641            | 30               |
| 14                 | 5638            | 42               | 17                 | 5624            | 51               |
| 16                 | 5553            | 48               | 21                 | 5612            | 63               |
| 18                 | 5559            | 54               | 23                 | 5619            | 69               |
| 21                 | 5525            | 63               | 27                 | 5644            | 81               |
| 23                 | 5586            | 69               | 30                 | 5638            | 90               |
| 26                 | 5585            | 78               | 33                 | 5501            | 99               |
| 32                 | 5594            | 96               | 34                 | 5648            | 102              |
| 37                 | 5627            | 111              | 37                 | 5524            | 111              |
| 38                 | 5647            | 114              | 39                 | 5581            | 117              |
| 39                 | 5548            | 117              | 40                 | 5643            | 120              |
| 40                 | 5518            | 120              | 43                 | 5502            | 129              |
| 44                 | 5501            | 132              | 44                 | 5578            | 132              |
| 45                 | 5572            | 135              | 45                 | 5591            | 135              |
| 46                 | 5600            | 138              | 48                 | 5626            | 144              |
| 48                 | 5563            | 144              | 49                 | 5642            | 147              |
| 53                 | 5527            | 159              | 53                 | 5511            | 159              |
| 55                 | 5497            | 165              | 54                 | 5542            | 162              |
| 56                 | 5623            | 168              | 59                 | 5540            | 177              |
| 57                 | 5540            | 171              | 62                 | 5563            | 186              |
| 59                 | 5568            | 177              | 66                 | 5560            | 198              |
| 66                 | 5552            | 198              | 69                 | 5568            | 207              |
| 68                 | 5510            | 204              | 71                 | 5583            | 213              |
| 70                 | 5624            | 210              | 73                 | 5625            | 219              |
| 72                 | 5601            | 216              | 74                 | 5631            | 222              |
| 73                 | 5562            | 219              | 82                 | 5504            | 246              |
| 74                 | 5573            | 222              | 86                 | 5647            | 258              |
| 76                 | 5629            | 228              | 90                 | 5627            | 270              |



|    |      |     |    |      |     |
|----|------|-----|----|------|-----|
| 80 | 5542 | 240 | 93 | 5640 | 279 |
| 83 | 5592 | 249 | 94 | 5632 | 282 |
| 85 | 5631 | 255 | -- | --   | --  |
| 86 | 5640 | 258 | -- | --   | --  |
| 87 | 5617 | 261 | -- | --   | --  |
| 88 | 5534 | 264 | -- | --   | --  |
| 89 | 5554 | 267 | -- | --   | --  |

| Radar waveform #29 |                 |                  | Radar waveform #30 |                 |                  |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number     | Frequency (MHz) | Pulse Start (ms) | Hopping Number     | Frequency (MHz) | Pulse Start (ms) |
| 2                  | 5573            | 6                | 1                  | 5560            | 3                |
| 4                  | 5647            | 12               | 3                  | 5529            | 9                |
| 18                 | 5613            | 54               | 4                  | 5646            | 12               |
| 22                 | 5570            | 66               | 12                 | 5641            | 36               |
| 24                 | 5631            | 72               | 16                 | 5494            | 48               |
| 25                 | 5607            | 75               | 18                 | 5623            | 54               |
| 28                 | 5553            | 84               | 21                 | 5578            | 63               |
| 29                 | 5588            | 87               | 22                 | 5557            | 66               |
| 34                 | 5525            | 102              | 24                 | 5490            | 72               |
| 38                 | 5601            | 114              | 25                 | 5636            | 75               |
| 39                 | 5551            | 117              | 27                 | 5511            | 81               |
| 40                 | 5629            | 120              | 35                 | 5515            | 105              |
| 41                 | 5584            | 123              | 44                 | 5530            | 132              |
| 47                 | 5547            | 141              | 48                 | 5535            | 144              |
| 48                 | 5548            | 144              | 59                 | 5493            | 177              |
| 49                 | 5540            | 147              | 60                 | 5551            | 180              |
| 52                 | 5572            | 156              | 65                 | 5525            | 195              |
| 53                 | 5581            | 159              | 69                 | 5550            | 207              |
| 54                 | 5600            | 162              | 71                 | 5508            | 213              |
| 55                 | 5585            | 165              | 74                 | 5589            | 222              |
| 59                 | 5542            | 177              | 77                 | 5553            | 231              |
| 60                 | 5507            | 180              | 82                 | 5626            | 246              |
| 61                 | 5589            | 183              | 83                 | 5496            | 249              |
| 66                 | 5524            | 198              | 84                 | 5622            | 252              |
| 67                 | 5508            | 201              | 89                 | 5523            | 267              |
| 69                 | 5621            | 207              | 90                 | 5505            | 270              |

|    |      |     |    |      |     |
|----|------|-----|----|------|-----|
| 70 | 5556 | 210 | 91 | 5606 | 273 |
| 72 | 5580 | 216 | 96 | 5531 | 288 |
| 73 | 5650 | 219 | -- | --   | --  |
| 74 | 5500 | 222 | -- | --   | --  |
| 76 | 5526 | 228 | -- | --   | --  |
| 77 | 5563 | 231 | -- | --   | --  |
| 78 | 5501 | 234 | -- | --   | --  |
| 86 | 5579 | 258 | -- | --   | --  |
| 87 | 5546 | 261 | -- | --   | --  |
| 89 | 5528 | 267 | -- | --   | --  |

## 6. Test Result for Off-Channel CAC

|               |                                                                               |                   |            |
|---------------|-------------------------------------------------------------------------------|-------------------|------------|
| Product       | AX6600 Tri-Band Wi-Fi 6 Router                                                | Temperature       | 27°C       |
| Test Engineer | Kevin Ker                                                                     | Relative Humidity | 65%        |
| Test Site     | AC1                                                                           | Test Date         | 2020/04/16 |
| Test Item     | Off-Channel CAC (Operating Channel 5500MHz, Off-Channel CAC Channel 5580MHz ) |                   |            |

### Radar Type 1 - Radar Statistical Performance

| Trail # | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|---------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1       | 5570.4              | 1                   | 558      | 95             | 1                             |
| 2       | 5570.4              | 1                   | 618      | 86             | 1                             |
| 3       | 5570.4              | 1                   | 698      | 76             | 1                             |
| 4       | 5570.4              | 1                   | 658      | 81             | 1                             |
| 5       | 5570.4              | 1                   | 638      | 83             | 1                             |
| 6       | 5570.4              | 1                   | 758      | 70             | 1                             |
| 7       | 5570.4              | 1                   | 798      | 67             | 1                             |
| 8       | 5570.4              | 1                   | 718      | 74             | 1                             |
| 9       | 5570.4              | 1                   | 598      | 89             | 1                             |
| 10      | 5570.4              | 1                   | 838      | 63             | 1                             |
| 11      | 5580.0              | 1                   | 878      | 61             | 1                             |
| 12      | 5580.0              | 1                   | 858      | 62             | 1                             |
| 13      | 5580.0              | 1                   | 938      | 57             | 1                             |
| 14      | 5580.0              | 1                   | 538      | 98             | 1                             |
| 15      | 5580.0              | 1                   | 918      | 58             | 1                             |
| 16      | 5580.0              | 1                   | 741      | 72             | 1                             |
| 17      | 5580.0              | 1                   | 2221     | 24             | 1                             |
| 18      | 5580.0              | 1                   | 1799     | 30             | 1                             |
| 19      | 5580.0              | 1                   | 1321     | 40             | 1                             |
| 20      | 5580.0              | 1                   | 2692     | 20             | 1                             |
| 21      | 5589.6              | 1                   | 2251     | 24             | 1                             |
| 22      | 5589.6              | 1                   | 2621     | 21             | 1                             |
| 23      | 5589.6              | 1                   | 2688     | 20             | 1                             |
| 24      | 5589.6              | 1                   | 2280     | 24             | 1                             |
| 25      | 5589.6              | 1                   | 1892     | 28             | 1                             |
| 26      | 5589.6              | 1                   | 874      | 61             | 1                             |

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 27                       | 5589.6              | 1                   | 795      | 67             | 1                             |
| 28                       | 5589.6              | 1                   | 1638     | 33             | 1                             |
| 29                       | 5589.6              | 1                   | 1394     | 38             | 1                             |
| 30                       | 5589.6              | 1                   | 713      | 74             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 100%                          |

## Radar Type 2 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5570.4              | 2.7                 | 153      | 23             | 1                             |
| 2                        | 5570.4              | 3.7                 | 185      | 23             | 1                             |
| 3                        | 5570.4              | 1.1                 | 155      | 26             | 1                             |
| 4                        | 5570.4              | 3.3                 | 207      | 26             | 1                             |
| 5                        | 5570.4              | 4.9                 | 192      | 28             | 1                             |
| 6                        | 5570.4              | 4.9                 | 153      | 23             | 1                             |
| 7                        | 5570.4              | 1.1                 | 207      | 29             | 1                             |
| 8                        | 5570.4              | 4.1                 | 161      | 23             | 1                             |
| 9                        | 5570.4              | 1.4                 | 207      | 28             | 1                             |
| 10                       | 5570.4              | 1.5                 | 203      | 27             | 1                             |
| 11                       | 5580.0              | 3.0                 | 214      | 25             | 1                             |
| 12                       | 5580.0              | 4.8                 | 230      | 28             | 1                             |
| 13                       | 5580.0              | 2.4                 | 160      | 25             | 0                             |
| 14                       | 5580.0              | 4.0                 | 183      | 26             | 0                             |
| 15                       | 5580.0              | 2.6                 | 197      | 26             | 1                             |
| 16                       | 5580.0              | 1.2                 | 152      | 29             | 1                             |
| 17                       | 5580.0              | 1.4                 | 220      | 28             | 1                             |
| 18                       | 5580.0              | 1.2                 | 156      | 23             | 1                             |
| 19                       | 5580.0              | 4.9                 | 179      | 25             | 1                             |
| 20                       | 5580.0              | 1.1                 | 153      | 24             | 1                             |
| 21                       | 5589.6              | 1.6                 | 208      | 26             | 1                             |
| 22                       | 5589.6              | 2.0                 | 208      | 25             | 1                             |
| 23                       | 5589.6              | 4.3                 | 192      | 27             | 1                             |
| 24                       | 5589.6              | 3.9                 | 183      | 27             | 1                             |
| 25                       | 5589.6              | 2.3                 | 159      | 27             | 1                             |
| 26                       | 5589.6              | 2.5                 | 168      | 25             | 1                             |
| 27                       | 5589.6              | 1.3                 | 151      | 27             | 1                             |
| 28                       | 5589.6              | 4.8                 | 179      | 28             | 1                             |
| 29                       | 5589.6              | 3.0                 | 221      | 29             | 1                             |
| 30                       | 5589.6              | 3.6                 | 205      | 24             | 0                             |
| Detection Percentage (%) |                     |                     |          |                | 90%                           |

## Radar Type 3 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5570.4              | 7.5                 | 481      | 17             | 1                             |
| 2                        | 5570.4              | 9.4                 | 275      | 18             | 1                             |
| 3                        | 5570.4              | 9.8                 | 238      | 17             | 1                             |
| 4                        | 5570.4              | 8.7                 | 416      | 17             | 1                             |
| 5                        | 5570.4              | 9.0                 | 287      | 16             | 1                             |
| 6                        | 5570.4              | 6.9                 | 489      | 17             | 1                             |
| 7                        | 5570.4              | 7.8                 | 215      | 17             | 1                             |
| 8                        | 5570.4              | 7.3                 | 462      | 18             | 1                             |
| 9                        | 5570.4              | 9.8                 | 365      | 18             | 0                             |
| 10                       | 5570.4              | 9.7                 | 202      | 16             | 1                             |
| 11                       | 5580.0              | 8.3                 | 457      | 17             | 1                             |
| 12                       | 5580.0              | 8.6                 | 301      | 16             | 1                             |
| 13                       | 5580.0              | 6.7                 | 251      | 16             | 0                             |
| 14                       | 5580.0              | 7.4                 | 245      | 16             | 1                             |
| 15                       | 5580.0              | 9.3                 | 400      | 18             | 1                             |
| 16                       | 5580.0              | 6.0                 | 300      | 16             | 1                             |
| 17                       | 5580.0              | 9.4                 | 217      | 17             | 1                             |
| 18                       | 5580.0              | 6.9                 | 245      | 18             | 1                             |
| 19                       | 5580.0              | 8.5                 | 401      | 17             | 1                             |
| 20                       | 5580.0              | 9.0                 | 298      | 18             | 1                             |
| 21                       | 5589.6              | 6.1                 | 344      | 17             | 1                             |
| 22                       | 5589.6              | 7.3                 | 282      | 18             | 1                             |
| 23                       | 5589.6              | 7.1                 | 280      | 17             | 1                             |
| 24                       | 5589.6              | 8.4                 | 218      | 17             | 1                             |
| 25                       | 5589.6              | 6.8                 | 419      | 16             | 1                             |
| 26                       | 5589.6              | 6.2                 | 275      | 17             | 1                             |
| 27                       | 5589.6              | 6.5                 | 239      | 17             | 1                             |
| 28                       | 5589.6              | 7.9                 | 298      | 17             | 1                             |
| 29                       | 5589.6              | 7.8                 | 259      | 16             | 1                             |
| 30                       | 5589.6              | 7.8                 | 258      | 18             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 93.3%                         |

## Radar Type 4 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | Pulse Width<br>(us) | PRI (us) | Pulses / Burst | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1                        | 5570.4              | 18.8                | 443      | 15             | 1                             |
| 2                        | 5570.4              | 11.5                | 254      | 13             | 1                             |
| 3                        | 5570.4              | 12.4                | 375      | 14             | 0                             |
| 4                        | 5570.4              | 19.9                | 381      | 14             | 1                             |
| 5                        | 5570.4              | 12.6                | 263      | 13             | 1                             |
| 6                        | 5570.4              | 17.5                | 350      | 14             | 1                             |
| 7                        | 5570.4              | 16.8                | 279      | 15             | 1                             |
| 8                        | 5570.4              | 18.1                | 474      | 15             | 1                             |
| 9                        | 5570.4              | 19.7                | 282      | 13             | 1                             |
| 10                       | 5570.4              | 11.8                | 271      | 14             | 0                             |
| 11                       | 5580.0              | 13.3                | 327      | 14             | 0                             |
| 12                       | 5580.0              | 16.2                | 419      | 16             | 1                             |
| 13                       | 5580.0              | 13.9                | 200      | 12             | 1                             |
| 14                       | 5580.0              | 11.6                | 334      | 13             | 1                             |
| 15                       | 5580.0              | 11.8                | 376      | 13             | 1                             |
| 16                       | 5580.0              | 16.2                | 492      | 16             | 1                             |
| 17                       | 5580.0              | 12.9                | 273      | 16             | 1                             |
| 18                       | 5580.0              | 11.0                | 345      | 13             | 1                             |
| 19                       | 5580.0              | 17.1                | 404      | 16             | 1                             |
| 20                       | 5580.0              | 17.9                | 216      | 15             | 1                             |
| 21                       | 5589.6              | 17.6                | 237      | 14             | 1                             |
| 22                       | 5589.6              | 16.7                | 352      | 13             | 1                             |
| 23                       | 5589.6              | 13.8                | 394      | 14             | 1                             |
| 24                       | 5589.6              | 18.4                | 450      | 15             | 1                             |
| 25                       | 5589.6              | 18.9                | 467      | 16             | 1                             |
| 26                       | 5589.6              | 11.2                | 219      | 13             | 1                             |
| 27                       | 5589.6              | 16.0                | 283      | 14             | 1                             |
| 28                       | 5589.6              | 12.5                | 357      | 14             | 1                             |
| 29                       | 5589.6              | 15.3                | 287      | 14             | 1                             |
| 30                       | 5589.6              | 18.9                | 209      | 16             | 1                             |
| Detection Percentage (%) |                     |                     |          |                | 90%                           |

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows:  $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (100\% + 90\% + 93.3\% + 90\%) / 4 = 93.3\% (>80\%)$



### Radar Type 5 - Radar Statistical Performance

| Trail #                  | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1                        | 5580.0              | 1                             | 16      | 5575.2              | 1                             |
| 2                        | 5580.0              | 1                             | 17      | 5577.2              | 1                             |
| 3                        | 5580.0              | 1                             | 18      | 5576.0              | 1                             |
| 4                        | 5580.0              | 1                             | 19      | 5574.8              | 1                             |
| 5                        | 5580.0              | 1                             | 20      | 5578.4              | 1                             |
| 6                        | 5580.0              | 1                             | 21      | 5587.6              | 1                             |
| 7                        | 5580.0              | 1                             | 22      | 5587.6              | 1                             |
| 8                        | 5580.0              | 1                             | 23      | 5585.6              | 1                             |
| 9                        | 5580.0              | 1                             | 24      | 5586.0              | 1                             |
| 10                       | 5580.0              | 1                             | 25      | 5582.0              | 1                             |
| 11                       | 5575.6              | 1                             | 26      | 5586.4              | 1                             |
| 12                       | 5578.4              | 1                             | 27      | 5585.6              | 0                             |
| 13                       | 5573.6              | 1                             | 28      | 5582.8              | 1                             |
| 14                       | 5577.6              | 1                             | 29      | 5584.4              | 1                             |
| 15                       | 5575.6              | 1                             | 30      | 5582.4              | 1                             |
| Detection Percentage (%) |                     |                               |         |                     | 96.7%                         |

| Type 5 Radar Waveform_1 |                  |                          |                   |                               |                               |                                       |
|-------------------------|------------------|--------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|
| Burst                   | Number of Pulses | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | Pulse 1-to-2 PRI ( $\mu$ sec) | Pulse 2-to-3 PRI ( $\mu$ sec) | Start Location Within Interval (msec) |
| 1                       | 3                | 96.7                     | 16                | 1130                          | 1300                          | 147.519                               |
| 2                       | 2                | 98.2                     | 16                | 1517                          |                               | 305.128                               |
| 3                       | 1                | 96.5                     | 16                |                               |                               | 357.692                               |
| 4                       | 2                | 97.8                     | 16                | 1601                          |                               | 298.373                               |
| 5                       | 2                | 87.6                     | 16                | 1891                          |                               | 574.154                               |
| 6                       | 3                | 60.1                     | 16                | 1464                          | 1638                          | 218.995                               |
| 7                       | 1                | 72.5                     | 16                |                               |                               | 271.696                               |
| 8                       | 2                | 94.2                     | 16                | 1651                          |                               | 507.427                               |
| 9                       | 1                | 74.6                     | 16                |                               |                               | 361.918                               |
| 10                      | 3                | 85                       | 16                | 1968                          | 1699                          | 181.709                               |
| 11                      | 1                | 68.5                     | 16                |                               |                               | 422.831                               |
| 12                      | 3                | 72.9                     | 16                | 1308                          | 1127                          | 149.612                               |
| 13                      | 2                | 96.1                     | 16                | 1711                          |                               | 538.183                               |
| 14                      | 3                | 80                       | 16                | 1304                          | 1351                          | 224.304                               |
| 15                      | 2                | 83.7                     | 16                | 1650                          |                               | 160.905                               |
| 16                      | 2                | 93.8                     | 16                | 1004                          |                               | 220.756                               |
| 17                      | 1                | 79.9                     | 16                |                               |                               | 513.437                               |
| 18                      | 3                | 93.4                     | 16                | 1305                          | 1166                          | 303.558                               |
| 19                      | 3                | 56.4                     | 16                | 1220                          | 1074                          | 113.979                               |