



DFS MEASUREMENT REPORT

FCC PART 15.407

FCC ID: O9C-BJNGAFB0005

APPLICANT: Hewlett Packard Company

Application Type: Certification

Product: Unified Wired-WLAN Walljack

Model No.: BJNGA-FB0005, JH048A

Brand Name: HP

FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s): Part 15.407

KDB 905462 D02v01, KDB 905462 D04v01

Type of Device:

- Master Device
- Client Device (No radar detection)
- Client Device with radar detection

Test Date: Sep. 15 ~ 24, 2014

Reviewed By : Robin Wu
(Robin Wu)

Approved By : Marlin Chen
(Marlin Chen)



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 D02v01. 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 (Suzhou) Co., Ltd.

Revision History

| Report No. | Version | Description | Issue Date |
|--------------|---------|----------------|------------|
| 1409RSU02703 | Rev. 01 | Initial report | 09-25-2014 |
| | | | |

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§2.1033 General Information

| | |
|----------------------------------|---|
| Applicant: | Hewlett Packard Company |
| Applicant Address: | 153 Taylor Street Littleton Massachusetts, United States 01460-1407 |
| Manufacturer: | Hewlett Packard Company |
| Manufacturer Address: | 153 Taylor Street Littleton Massachusetts, United States 01460-1407 |
| Test Site: | MRT Technology (Suzhou) Co., Ltd |
| Test Site Address: | D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China |
| MRT FCC Registration No.: | 809388 |
| Model No.: | BJNGA-FB0005, JH048A |
| FCC ID: | O9C-BJNGAFB0005 |
| Test Device Serial No.: | N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering |
| FCC Classification: | Unlicensed National Information Infrastructure (UNII) |
| Date(s) of Test: | Sep. 15 ~ 24, 2014 |
| Test Report S/N: | 1409RSU02703 |

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.
- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (11384A-1).
- MRT facility is an IC registered (11384A-1) test laboratory with the site description on file at Industry Canada.



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 Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.

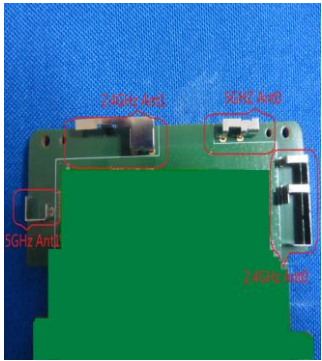


2. PRODUCT INFORMATION

2.1. Equipment Description

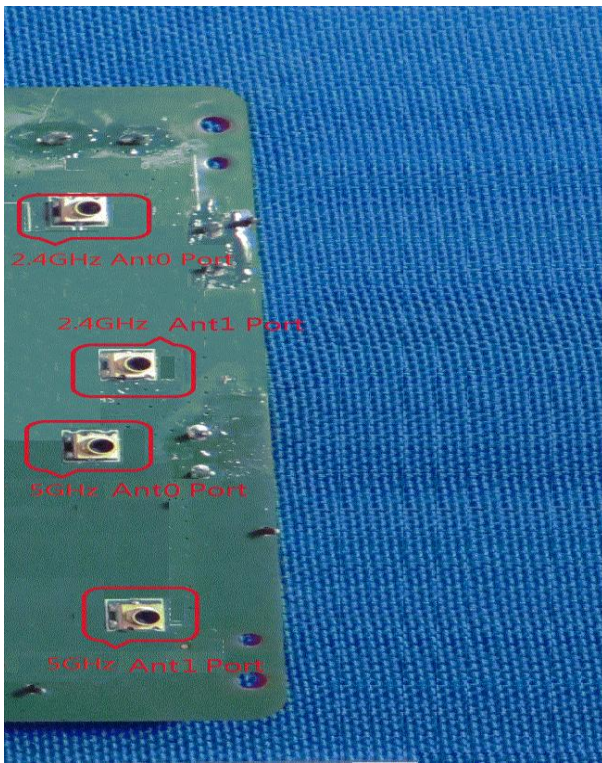
| | |
|----------------------|---|
| Product Name | Unified Wired-WLAN Walljack |
| Model No. | BJNGA-FB0005, JH048A |
| Radio Type | Intentional Transceiver |
| Power Type | 48Vdc, 0.63A (or POE input) |
| Operation Mode | Master Device |
| Frequency Range | <p>For 802.11a/n-HT20: 5260~5320MHz, 5500~5700MHz</p> <p>For 802.11ac-VHT20: 5260~5320MHz, 5500~5720MHz</p> <p>For 802.11n-HT40: 5270~5310MHz, 5510~5670MHz</p> <p>For 802.11ac-VHT40: 5270~5310MHz, 5510~5710MHz</p> <p>For 802.11ac-VHT80: 5290MHz, 5530MHz, 5610MHz, 5690MHz</p> |
| Maximum Output Power | <p>802.11a: 20.86dBm</p> <p>802.11n-HT20: 20.77dBm</p> <p>802.11n-HT40: 20.65dBm</p> <p>802.11ac-VHT20: 20.81dBm</p> <p>802.11ac-VHT40: 20.58dBm</p> <p>802.11ac-VHT80: 20.20dBm</p> |
| Type of Modulation | 802.11a/n/ac: OFDM; |
| Power-on cycle | Requires 127.8 seconds to complete its power-on cycle. |
| Uniform Spreading | For the 5250-5350MHz, 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 (GHz) | Manufacturer | Model | Tx Paths | Max Peak Gain (dBi) | Directional Gain (dBi) | |
|---|----------------------|--------------------------|---------------|--------------------------|--------------------------|------------------------|---------|
| | | | | | | For Power | For PSD |
|  | 2.4 | Lite-On Technology Corp. | WP388-FN EVT2 | 2 | Ant 0: 2.7 Ant 1: 3.3 | 6.02 | 6.02 |
| | 5.2 | | | | Ant 0: 4.6 Ant 1: 4.2 | | |
| | 5.5 | | | Ant 0: 4.9 Ant 1: 4.4 | 2 | 7.66 | 7.66 |
| | 5.8 | | | Ant 0: 5.0 Ant 1: 5.4 | | 8.21 | |

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

2.1. Description of Antenna RF Port

| Antenna RF Port | | | | |
|--|----------------|-------|--------------|-------|
| -- | 2.4GHz RF Port | | 5GHz RF Port | |
| Software Control Port | Ant 0 | Ant 1 | Ant 0 | Ant 1 |
| Antenna RF Port Plot  | | | | |

2.2. DFS Band Carrier Frequencies Operation

802.11a/n Center Working Frequency of Each Channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 52 | 5260 MHz | 56 | 5280 MHz | 60 | 5300 MHz |
| 64 | 5320 MHz | 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 |

802.11ac-VHT20 Center Working Frequency of Each Channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 52 | 5260 MHz | 56 | 5280 MHz | 60 | 5300 MHz |
| 64 | 5320 MHz | 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 | N/A | N/A | N/A | N/A |

802.11n-HT40 Center Working Frequency of Each Channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 54 | 5270 MHz | 62 | 5310 MHz | 102 | 5510 MHz |
| 110 | 5550 MHz | 118 | 5590 MHz | 126 | 5630 MHz |
| 134 | 5670 MHz | N/A | N/A | N/A | N/A |

802.11ac-VHT40 Center Working Frequency of Each Channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 54 | 5270 MHz | 62 | 5310 MHz | 102 | 5510 MHz |
| 110 | 5550 MHz | 118 | 5590 MHz | 126 | 5630 MHz |
| 134 | 5670 MHz | 142 | 5710MHz | N/A | N/A |

| 802.11ac-VHT80 Center Working Frequency of Each Channel | | | | | |
|---|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 58 | 5290 MHz | 106 | 5530 MHz | 122 | 5610 MHz |
| 138 | 5690 MHz | N/A | N/A | N/A | N/A |

2.3. Test Mode

| | |
|-----------|--------------------------|
| Test Mode | Mode 1: Normal Operation |
|-----------|--------------------------|

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 v01 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 all 20 MHz channel blocks and a null frequencies between the bonded 20 MHz channel blocks.

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 v01 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 See Note 1. |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. 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 (See Notes 1, 2, and 3) |
|---|----------------------------------|
| EIRP \geq 200 milliwatt | -64 dBm |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz | -62 dBm |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement | -64 dBm |
| <p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note3: 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 | $\text{Roundup} \left\{ \begin{array}{l} \left(\frac{1}{360} \right) \cdot \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$ | 60% | 30 |
| | | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A | | | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. | | | | | |

Table 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 Number | Pulse Repetition Frequency (Pulses Per Second) | Pulse Repetition Interval (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 v01 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.

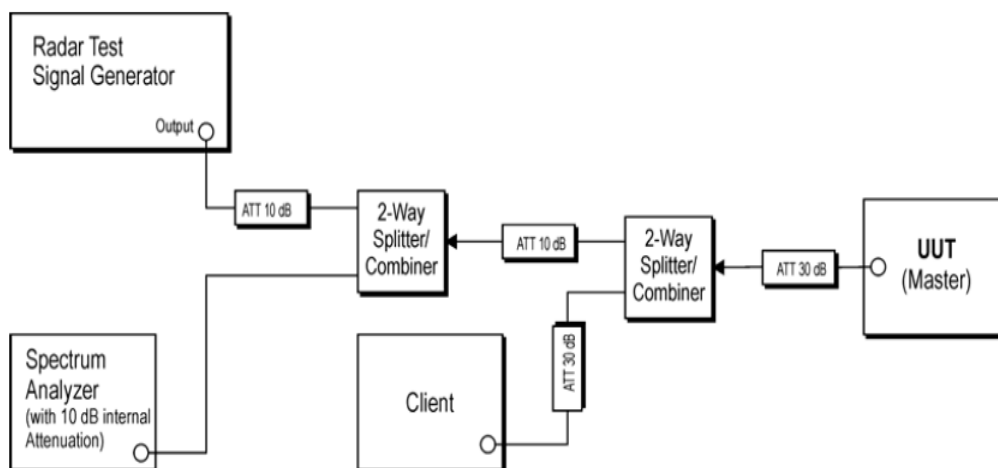


Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters

4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection (DFS)

| Instrument | Manufacturer | Type No. | Serial No. | Cali. Due Date |
|-----------------------------|--------------|----------|------------|----------------|
| Spectrum Analyzer | Agilent | N9010A | MY5144016A | 2015/01/04 |
| ESG Vector Signal Generator | Agilent | E4438C | MY49872484 | 2014/12/14 |
| Wireless Module | Intel | AC 7260 | N/A | N/A |

| Software | Manufacturer | Function |
|----------------|--------------|----------------------------------|
| Pulse Building | Agilent | Radar Signal Generation Software |
| DFS Tool | Agilent | DFS Test Software |

5. TEST RESULT

5.1. Summary

Company Name: Hewlett Packard Company
FCC ID: O9C-BJNGAFB0005
FCC Classification: Unlicensed National Information Infrastructure (UNII)

| 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 | |
| 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.

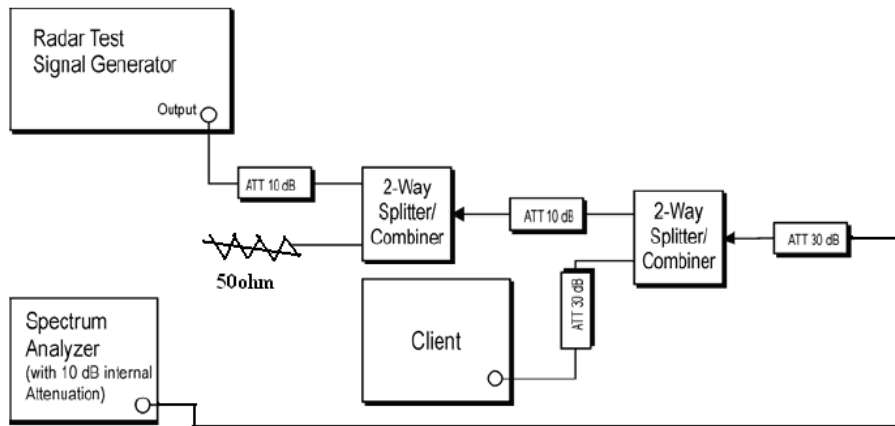


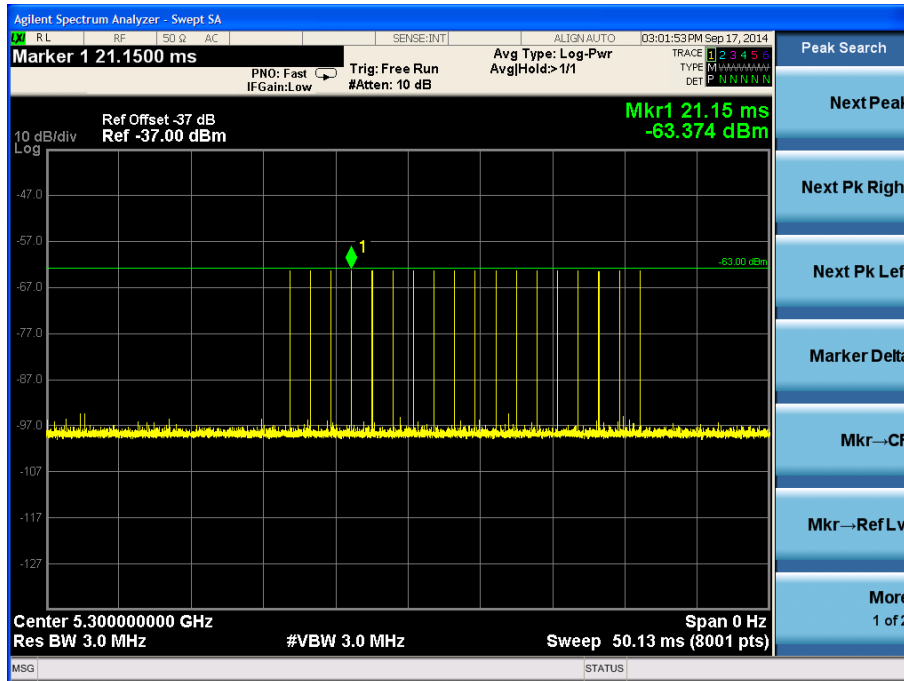
Figure 3-2: Conducted Test Setup

5.2.2. Calibration Procedure

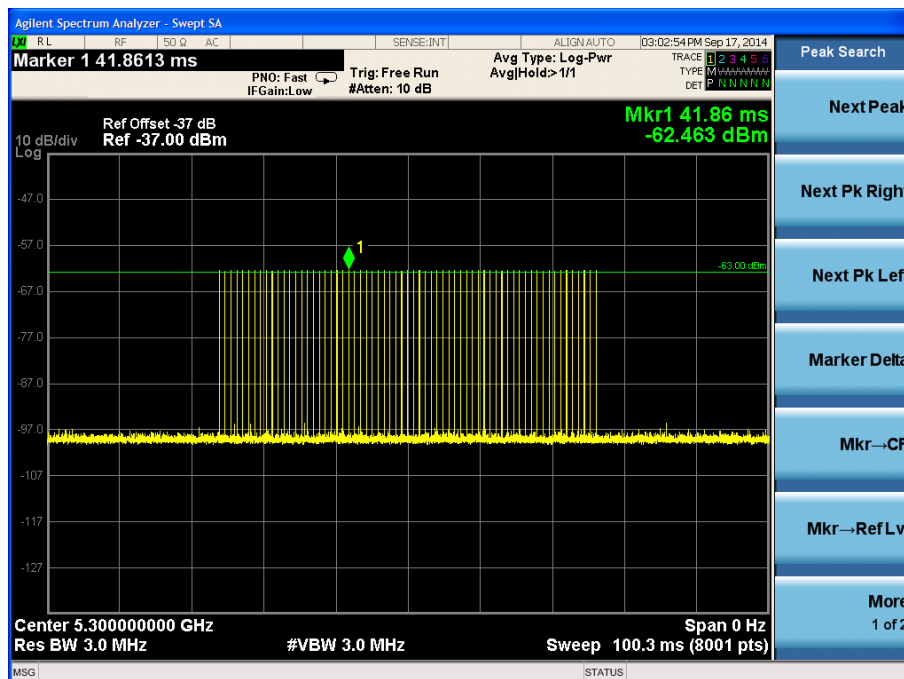
The Interference Radar Detection Threshold Level is $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$ that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was 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

Radar #0 DFS detection threshold level and the burst of pulses on the Channel frequency

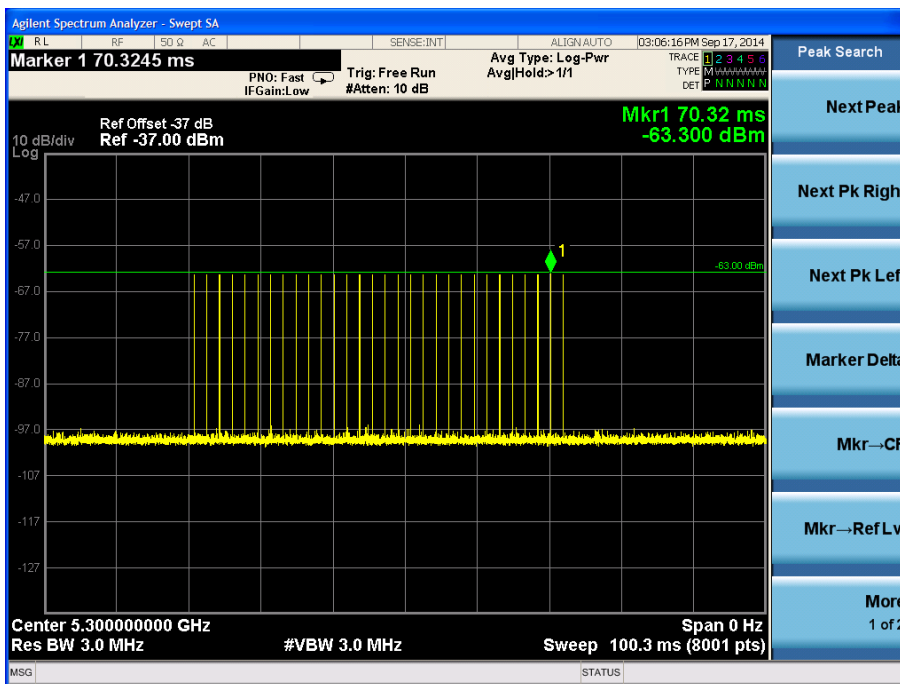


Radar #1(Test A) DFS detection threshold level and the burst of pulses on the Channel frequency



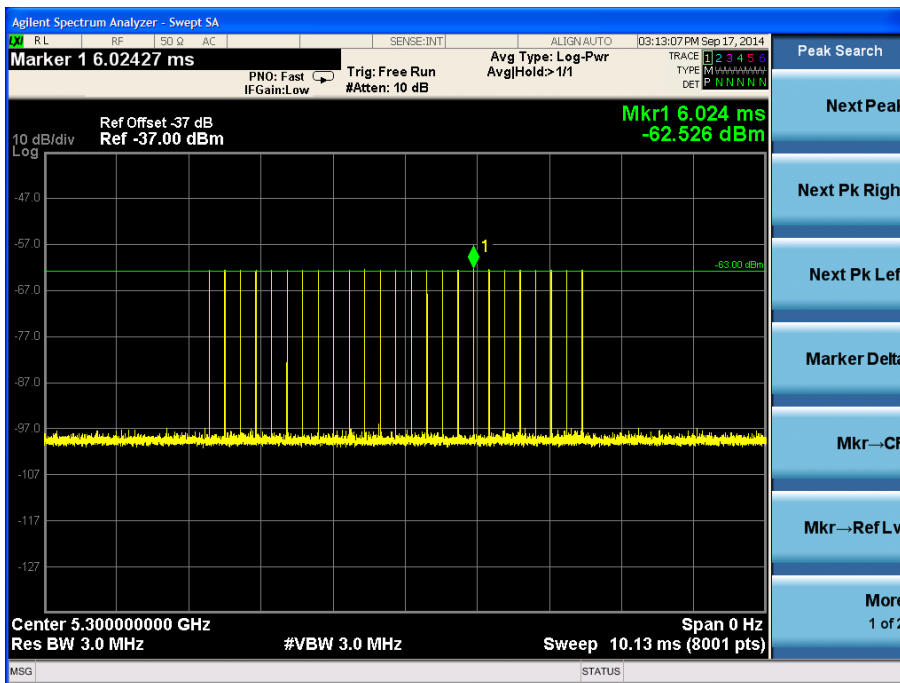
PRI = 738us and the number of pulses = 72

Radar #1(Test B) DFS detection threshold level and the burst of pulses on the Channel frequency

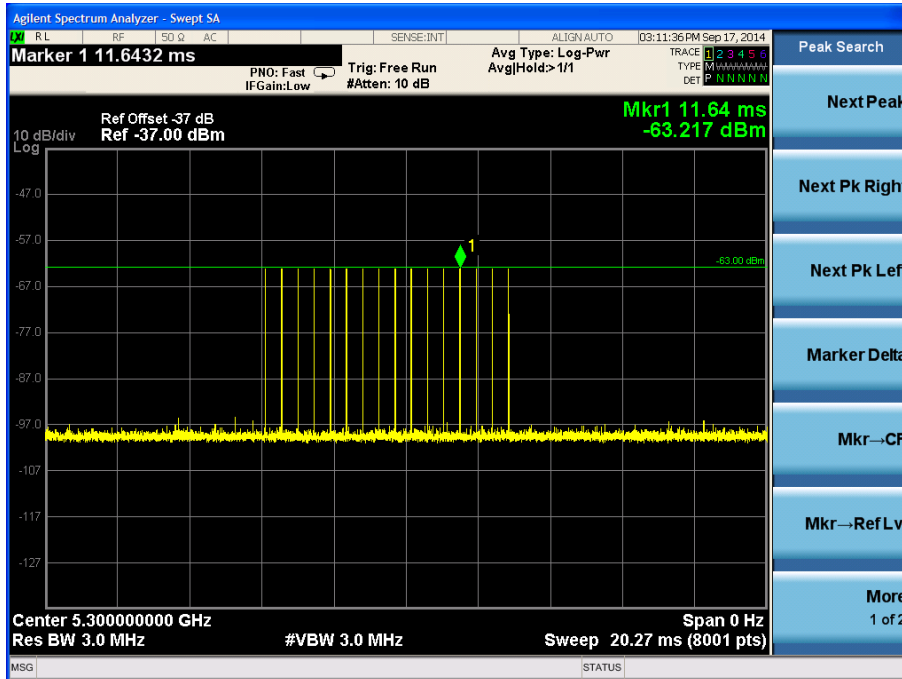


PRI = 1.787ms and the number of pulses = 30

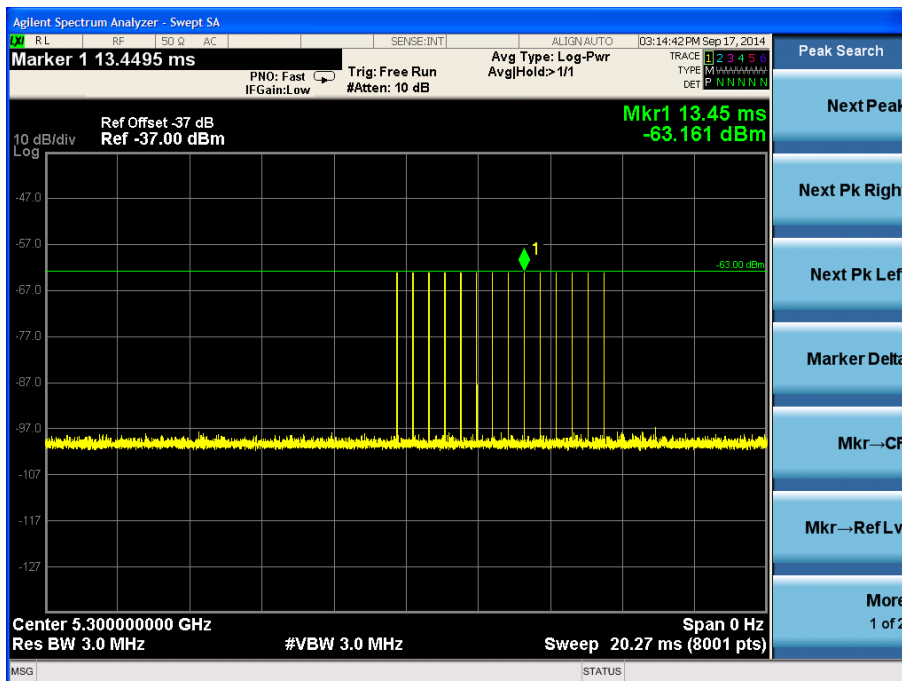
Radar #2 DFS detection threshold level and the burst of pulses on the Channel frequency



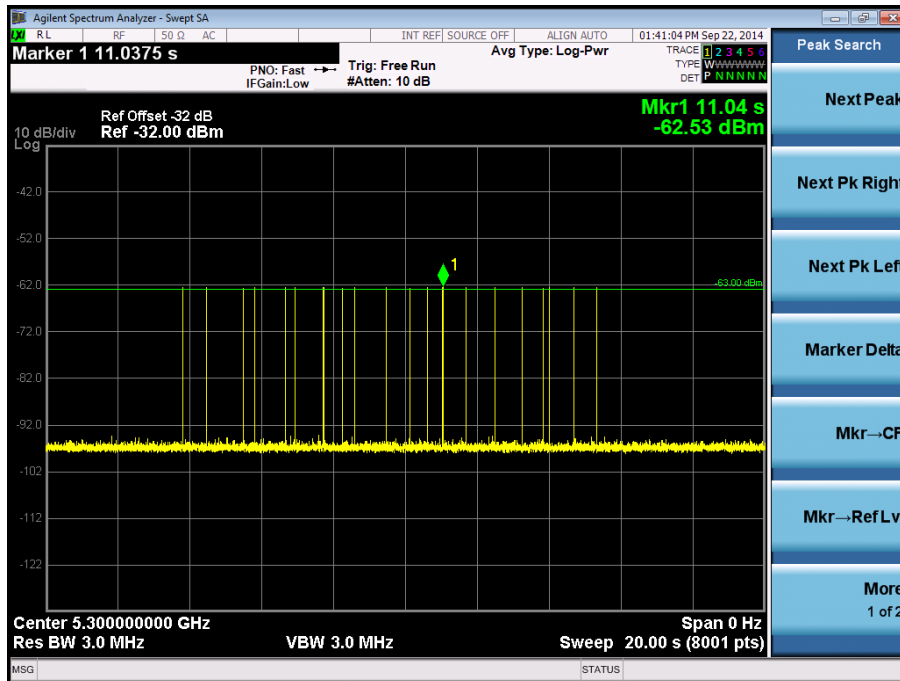
Radar #3 DFS detection threshold level and the burst of pulses on the Channel frequency



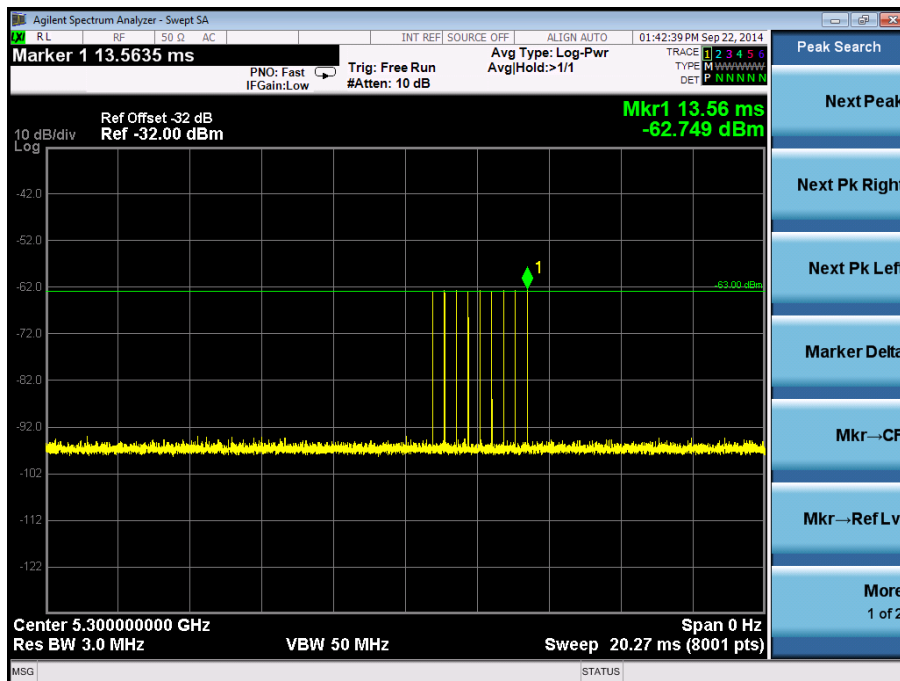
Radar #4 DFS detection threshold level and the burst of pulses on the Channel frequency



Radar #5 DFS detection threshold level and 12sec long burst on the Channel frequency



Radar #6 DFS detection threshold level and a single hop (13 pulses) on the Channel frequency within UNII detection bandwidth



5.2.4. Test Setup Photo

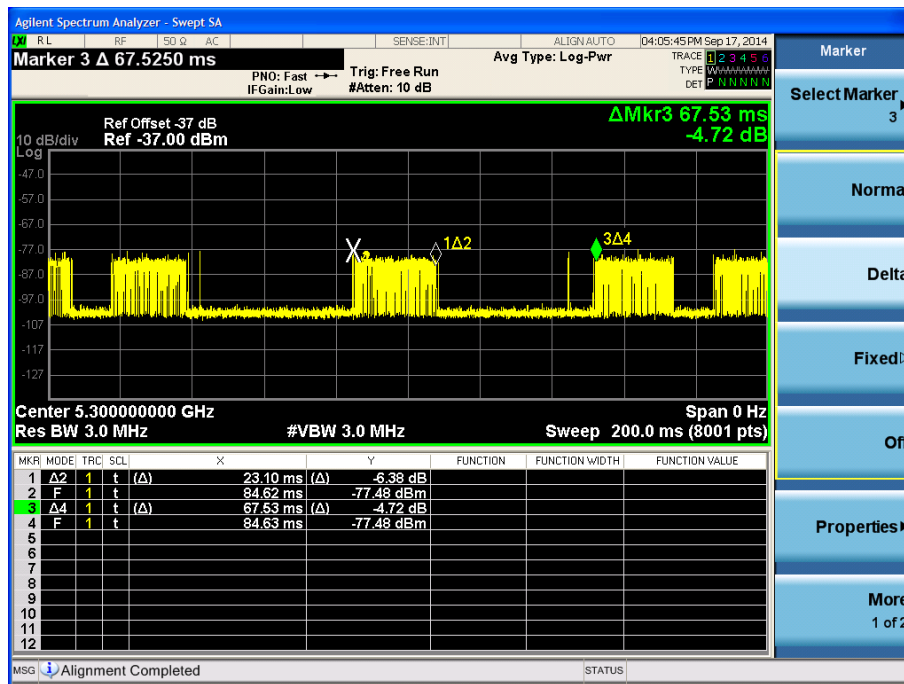
Description: Test Setup Photo



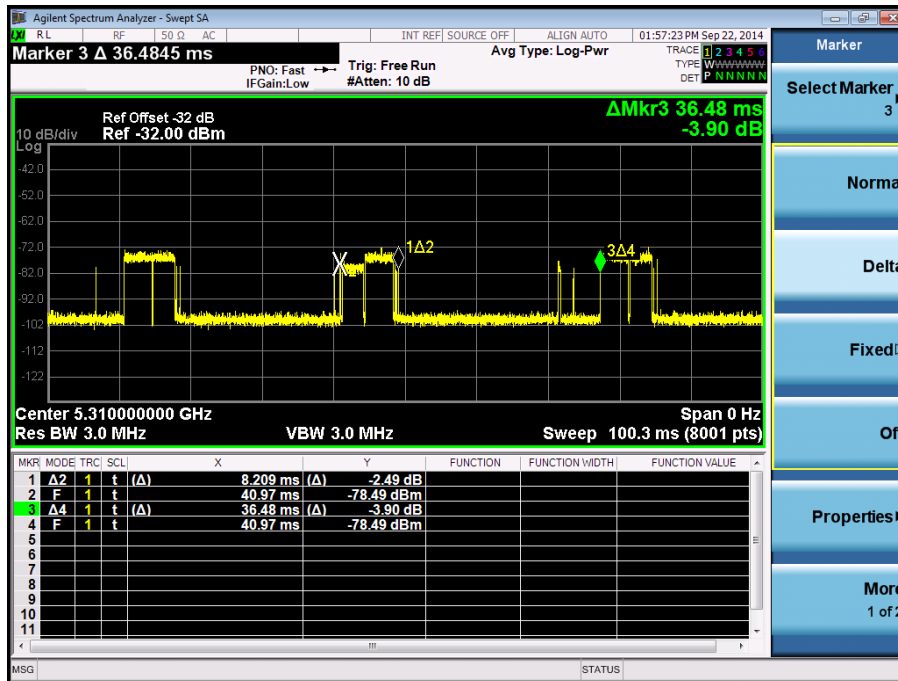
5.3. Channel Loading Test Result

System testing was performed with the designated MPEG test file that streams full motion video from the Unified Wired-WLAN Walljack to the Client in full motion video mode using the media player with the V2.61 Codec package. 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

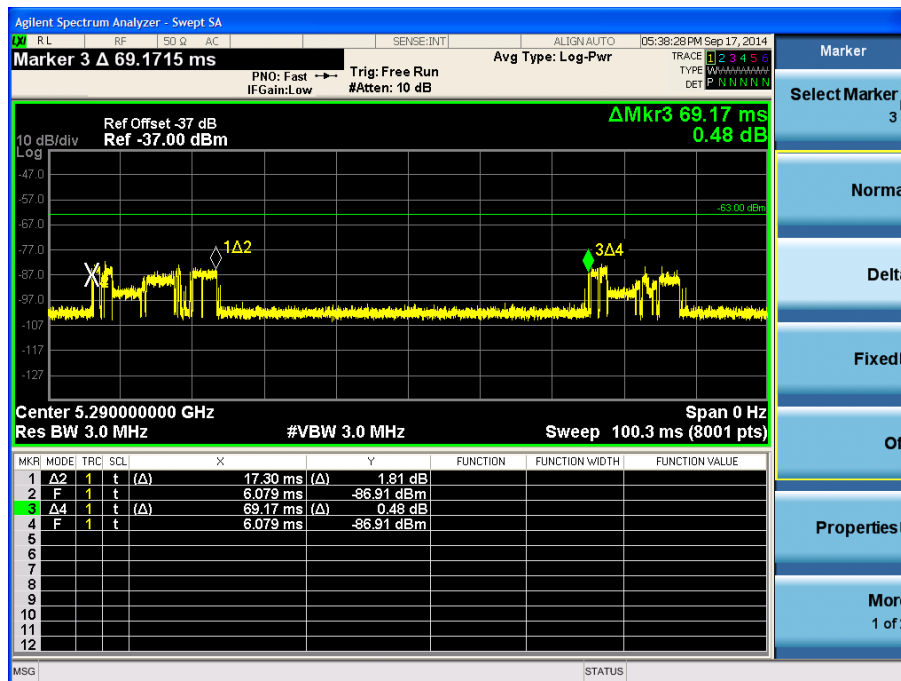
Channel Loading Plot - 802.11a-5300MHz



Channel Loading Plot - 802.11n-HT40 5310MHz



Channel Loading Plot - 802.11ac-VHT80 5290MHz



| Test Mode | Packet ratio | Requirement ratio | Test Result |
|----------------|--------------|-------------------|-------------|
| 802.11a | 34.21% | >17% | Pass |
| 802.11n-HT40 | 22.50% | >17% | Pass |
| 802.11ac-VHT80 | 25.01% | >17% | Pass |

5.4. UNII Detection Bandwidth Measurement

5.4.1. 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.

5.4.2. 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: $U\text{-NII Detection Bandwidth} = FH - FL$
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.

5.4.3. Test Result

| EUT Frequency=5300MHz for 802.11a | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|----|--------------------|
| Radar Frequency (MHz) | DFS Detection Trials (1=Detection, 0= No Detection) | | | | | | | | | | Detection Rate (%) |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5285 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5287 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5288 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5289 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5290 FL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5291 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5292 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5293 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5294 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5295 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5296 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5297 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5298 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5299 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5300 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5301 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5302 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5303 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5304 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5305 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5306 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5307 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5308 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5309 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5310 FH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5311 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5312 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5313 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|----|
| 5314 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5315 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| Detection Bandwidth = FH - FL = 5310MHz - 5290MHz = 20MHz | | | | | | | | | | | |
| EUT 99% Bandwidth = 16.92MHz (see note) | | | | | | | | | | | |
| UNII Detection Bandwidth Min. Limit (MHz): 16.92MHz x 100% = 16.92MHz | | | | | | | | | | | |

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5300MHz. The 99% channel bandwidth is 16.92MHz. (See the 99% BW section of the RF report for further measurement details).

| EUT Frequency=5310MHz for 802.11n-HT40 | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|----|--------------------|
| Radar Frequency (MHz) | DFS Detection Trials (1=Detection, 0= No Detection) | | | | | | | | | | Detection Rate (%) |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5290 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5291 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5292 FL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5293 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5294 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5295 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5296 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5297 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5298 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5299 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5300 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5301 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5302 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5303 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5304 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5305 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5306 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5307 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5308 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5309 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5310 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5311 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|------|
| 5312 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5313 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5314 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5315 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5316 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5317 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5318 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5319 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5320 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5321 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5322 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5323 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5324 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5325 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5326 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5327 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5328 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5329 FH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5330 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| Detection Bandwidth = FH - FL = 5329MHz - 5292MHz = 37MHz | | | | | | | | | | | |
| EUT 99% Bandwidth = 36.38MHz (see note) | | | | | | | | | | | |
| UNII Detection Bandwidth Min. Limit (MHz): 36.38MHz x 100% = 36.38MHz | | | | | | | | | | | |

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5310MHz. The 99% channel bandwidth is 36.38MHz. (See the 99% BW section of the RF report for further measurement details).



| EUT Frequency=5290MHz for 802.11ac-VHT80 | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|----|--------------------|
| Radar Frequency (MHz) | DFS Detection Trials (1=Detection, 0= No Detection) | | | | | | | | | | Detection Rate (%) |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 5245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5246 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5247 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5248 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5249 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5250 FL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5251 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5252 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5253 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5254 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5255 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5256 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5257 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5258 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5259 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5260 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5261 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5262 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5263 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5264 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5265 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5266 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5267 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5268 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5269 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5270 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5271 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5272 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5273 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5274 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5275 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |



| | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|------|
| 5276 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5277 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5278 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5279 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5280 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5281 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5282 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5283 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5284 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5285 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5286 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5287 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5288 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5289 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5290 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5291 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5292 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5293 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5294 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5295 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5296 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5297 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5298 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5299 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5300 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5301 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5302 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5303 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5304 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5305 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5306 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5307 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5308 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5309 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |

| | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|------|
| 5310 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5311 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5312 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5313 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5314 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5315 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5316 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5317 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5318 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5319 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5320 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5321 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5322 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5323 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5324 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5325 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5326 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5327 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5328 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5329 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5330 FH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100% |
| 5331 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5332 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5334 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |
| 5335 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0% |

Detection Bandwidth = FH - FL = 5330MHz - 5250MHz = 80MHz

EUT 99% Bandwidth = 75.90MHz (see note)

UNII Detection Bandwidth Min. Limit (MHz): 75.90MHz x 100% = 75.90MHz

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5290MHz. The 99% channel bandwidth is 75.90MHz. (See the 99% BW section of the RF report for further measurement details).

5.5. Initial Channel Availability Check Time Measurement

5.5.1. 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.

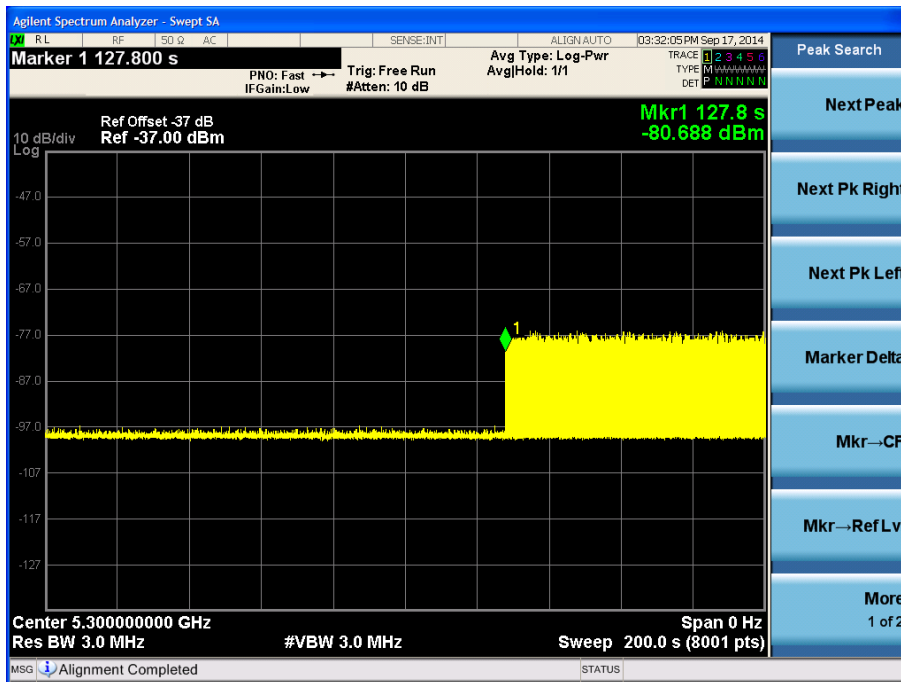
5.5.2. Test Procedure

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.

5.5.3. Test Result

The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (67.8 sec). Initial beacons/data transmissions are indicated by marker 1 (127.8 sec).

Initial Channel Availability Check Time for 802.11a



5.6. Radar Burst at the Beginning of the Channel Availability Check Time Measurement

5.6.1. Test Limit

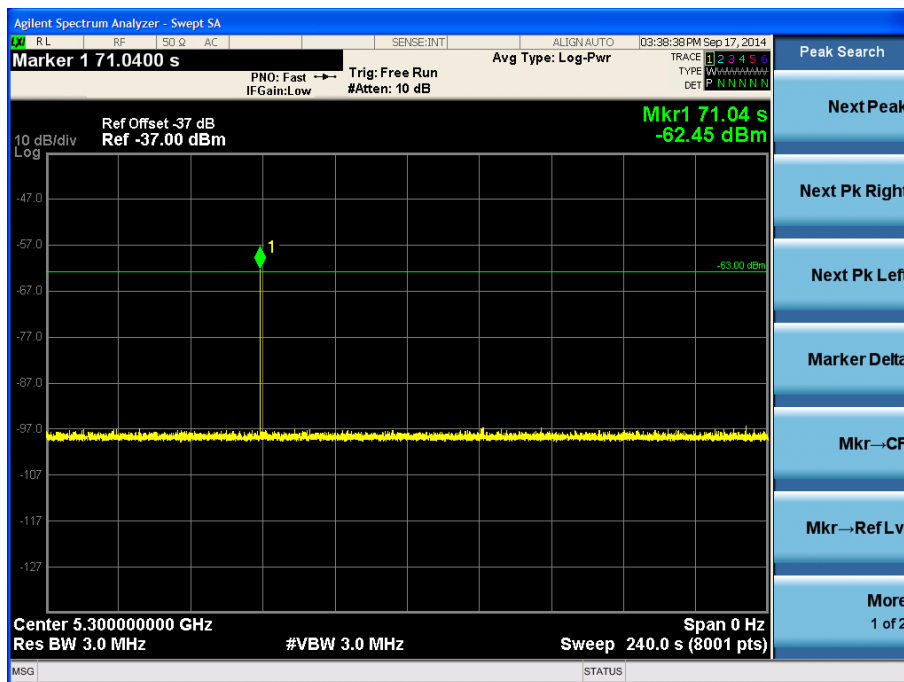
In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.6.2. 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 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 at 5300MHz (for 802.11a) will continue for 71.04 seconds after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred at 5300MHz (for 802.11a).

5.6.3. Test Result

Radar Burst at the Beginning of the Channel Availability Check Time for 802.11a



5.7. Radar Burst at the End of the Channel Availability Check Time Measurement

5.7.1. Test Limit

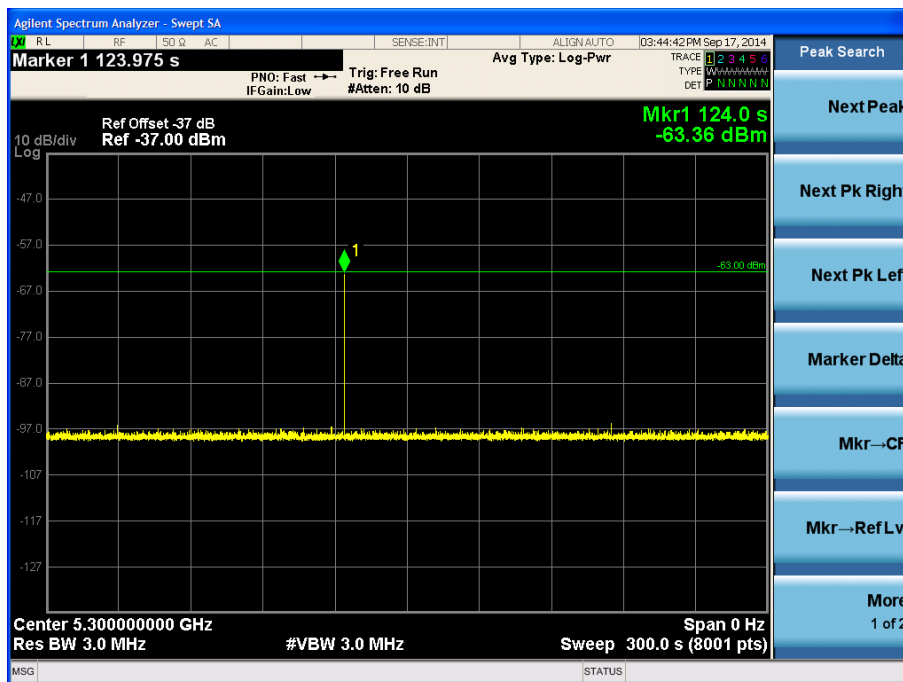
In the end of Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.7.2. 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 at 5300MHz (for 802.11a) will continue for 124.0 seconds after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred at 5300MHz (for 802.11a).

5.7.3. Test Result

Radar Burst at the End of the Channel Availability Check Time for 802.11a



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

5.8.1. Test Limit

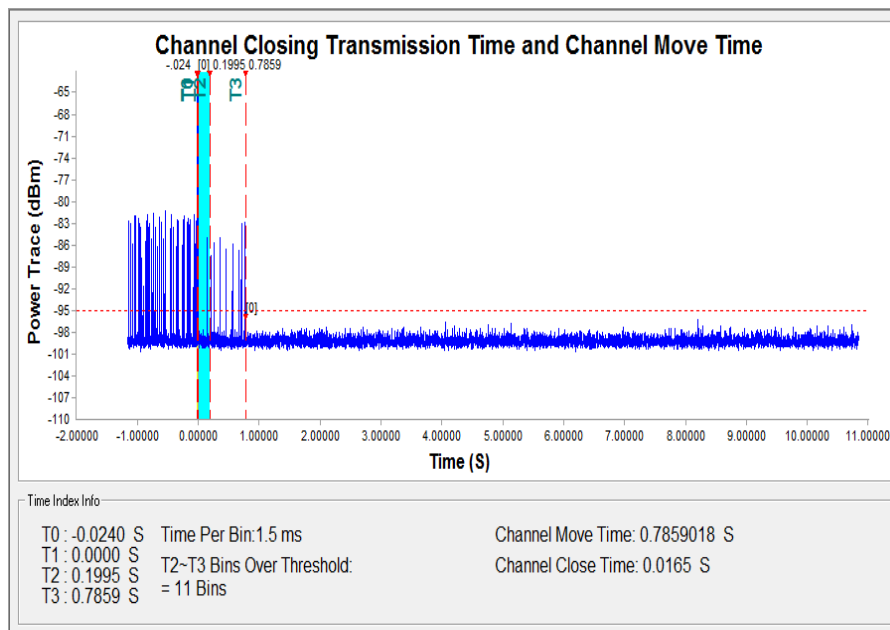
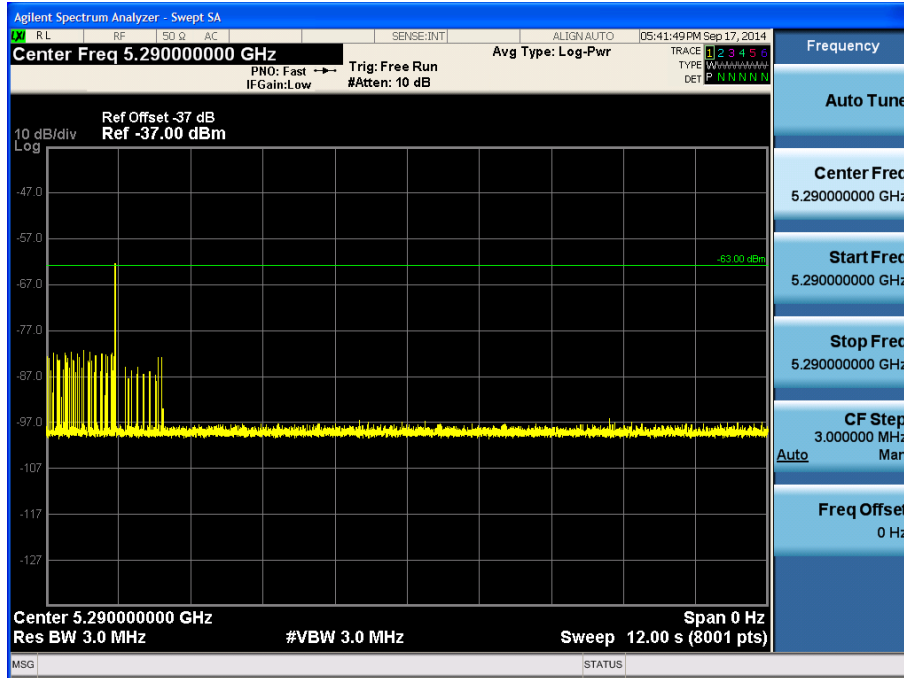
The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. 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.

5.8.2. Test Procedure Used

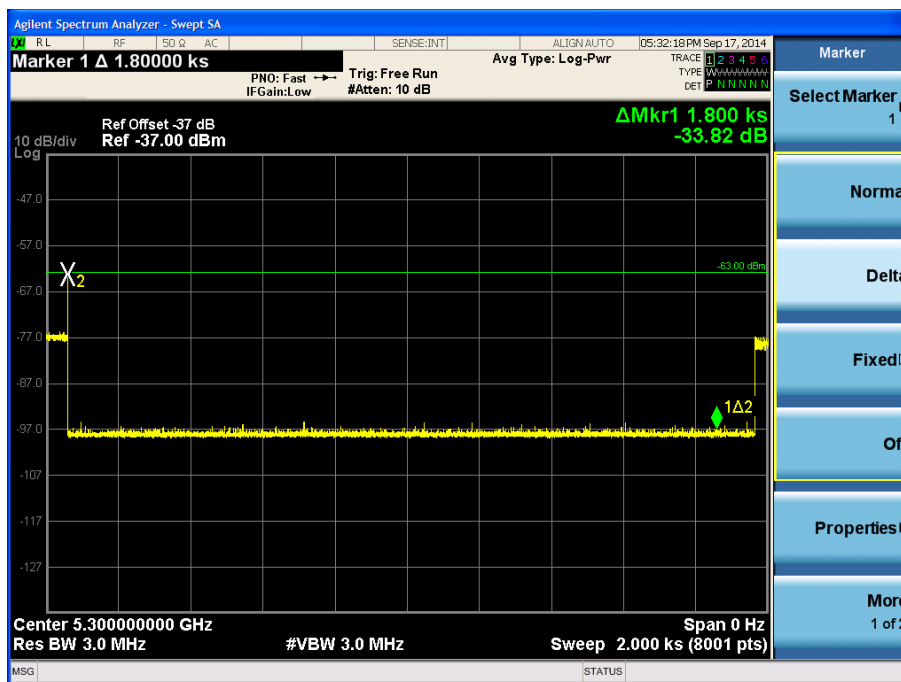
1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will 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.
2. 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).
3. 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: $80MHz: C (16.5 \text{ ms}) = N (11) \times Dwell (1.5 \text{ ms})$; 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.
4. 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.

5.8.3. Test Result

Channel Move Time and Channel Closing Transmission Time for 802.11ac-VHT80



Non-Occupancy Period for 802.11a



| Parameter | Test Result | Limit |
|--|-------------|----------|
| | Type 0 | |
| Channel Move Time (s) | 0.786s | <10s |
| Channel Closing Transmission Time (ms) (Note) | 16.50ms | < 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.

5.9. Statistical Performance Check Measurement

5.9.1. 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: $(Pd1 + Pd2 + Pd3 + Pd4) / 4$.

5.9.2. 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.

5.9.3. Test Result

Statistical Performance Check for 802.11a

Radar Type 1 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5290 | 1 | 558 | 95 | 0 |
| 2 | 5291 | 1 | 858 | 62 | 1 |
| 3 | 5291 | 1 | 698 | 76 | 1 |
| 4 | 5292 | 1 | 618 | 86 | 1 |
| 5 | 5292 | 1 | 818 | 65 | 1 |
| 6 | 5293 | 1 | 658 | 81 | 1 |
| 7 | 5293 | 1 | 518 | 102 | 1 |
| 8 | 5294 | 1 | 538 | 99 | 1 |
| 9 | 5294 | 1 | 718 | 74 | 1 |
| 10 | 5295 | 1 | 938 | 57 | 1 |
| 11 | 5295 | 1 | 798 | 67 | 1 |
| 12 | 5296 | 1 | 898 | 59 | 1 |
| 13 | 5297 | 1 | 738 | 72 | 1 |
| 14 | 5298 | 1 | 758 | 70 | 1 |
| 15 | 5299 | 1 | 638 | 83 | 1 |
| 16 | 5300 | 1 | 1937 | 28 | 1 |
| 17 | 5301 | 1 | 2722 | 20 | 1 |
| 18 | 5302 | 1 | 2170 | 25 | 1 |
| 19 | 5303 | 1 | 762 | 70 | 1 |
| 20 | 5304 | 1 | 2402 | 22 | 1 |
| 21 | 5305 | 1 | 2767 | 20 | 1 |
| 22 | 5306 | 1 | 592 | 90 | 1 |
| 23 | 5307 | 1 | 2090 | 26 | 1 |
| 24 | 5307 | 1 | 1943 | 28 | 1 |
| 25 | 5308 | 1 | 630 | 84 | 1 |
| 26 | 5308 | 1 | 2857 | 19 | 1 |
| 27 | 5309 | 1 | 1948 | 28 | 1 |
| 28 | 5309 | 1 | 1212 | 44 | 1 |
| 29 | 5310 | 1 | 1326 | 40 | 1 |
| 30 | 5310 | 1 | 2531 | 21 | 1 |
| Detection Percentage (%) | | | | | 96.7% |

Radar Type 2 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5290 | 1.1 | 153 | 25 | 0 |
| 2 | 5291 | 1.3 | 215 | 24 | 1 |
| 3 | 5291 | 1.1 | 219 | 23 | 1 |
| 4 | 5292 | 1.7 | 176 | 28 | 1 |
| 5 | 5292 | 4.9 | 160 | 23 | 1 |
| 6 | 5293 | 2.2 | 159 | 25 | 1 |
| 7 | 5293 | 1.6 | 154 | 26 | 1 |
| 8 | 5294 | 1.9 | 201 | 24 | 1 |
| 9 | 5294 | 3.7 | 210 | 28 | 1 |
| 10 | 5295 | 2.7 | 203 | 28 | 1 |
| 11 | 5295 | 3.5 | 191 | 24 | 1 |
| 12 | 5296 | 1.0 | 168 | 25 | 1 |
| 13 | 5297 | 4.4 | 153 | 23 | 1 |
| 14 | 5298 | 4.3 | 218 | 28 | 1 |
| 15 | 5299 | 4.2 | 214 | 28 | 1 |
| 16 | 5300 | 1.5 | 176 | 25 | 1 |
| 17 | 5301 | 2.5 | 215 | 26 | 1 |
| 18 | 5302 | 4.6 | 182 | 26 | 1 |
| 19 | 5303 | 5.0 | 206 | 26 | 1 |
| 20 | 5304 | 2.8 | 178 | 24 | 1 |
| 21 | 5305 | 1.0 | 178 | 24 | 1 |
| 22 | 5306 | 2.9 | 158 | 28 | 1 |
| 23 | 5307 | 3.1 | 229 | 27 | 1 |
| 24 | 5307 | 1.5 | 205 | 28 | 1 |
| 25 | 5308 | 3.9 | 203 | 28 | 1 |
| 26 | 5308 | 4.4 | 224 | 25 | 1 |
| 27 | 5309 | 1.5 | 187 | 29 | 1 |
| 28 | 5309 | 3.0 | 183 | 29 | 1 |
| 29 | 5310 | 3.2 | 156 | 27 | 1 |
| 30 | 5310 | 2.4 | 196 | 27 | 1 |
| Detection Percentage (%) | | | | | 96.7% |

Radar Type 3 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5290 | 9.7 | 282 | 18 | 0 |
| 2 | 5291 | 6.1 | 350 | 18 | 0 |
| 3 | 5291 | 7.8 | 440 | 16 | 1 |
| 4 | 5292 | 8.9 | 498 | 16 | 1 |
| 5 | 5292 | 9.8 | 416 | 16 | 1 |
| 6 | 5293 | 7.8 | 422 | 16 | 1 |
| 7 | 5293 | 9.0 | 320 | 18 | 1 |
| 8 | 5294 | 7.9 | 336 | 16 | 1 |
| 9 | 5294 | 8.5 | 454 | 17 | 1 |
| 10 | 5295 | 8.5 | 425 | 16 | 1 |
| 11 | 5295 | 7.8 | 332 | 18 | 1 |
| 12 | 5296 | 9.8 | 255 | 16 | 1 |
| 13 | 5297 | 8.4 | 407 | 17 | 1 |
| 14 | 5298 | 9.7 | 293 | 16 | 1 |
| 15 | 5299 | 9.0 | 406 | 18 | 1 |
| 16 | 5300 | 7.1 | 255 | 18 | 1 |
| 17 | 5301 | 8.4 | 459 | 17 | 1 |
| 18 | 5302 | 6.0 | 499 | 16 | 1 |
| 19 | 5303 | 7.5 | 375 | 16 | 1 |
| 20 | 5304 | 8.1 | 292 | 18 | 1 |
| 21 | 5305 | 9.6 | 398 | 16 | 1 |
| 22 | 5306 | 6.3 | 368 | 17 | 1 |
| 23 | 5307 | 8.3 | 431 | 16 | 1 |
| 24 | 5307 | 7.4 | 484 | 17 | 1 |
| 25 | 5308 | 7.6 | 303 | 17 | 1 |
| 26 | 5308 | 6.7 | 429 | 18 | 1 |
| 27 | 5309 | 9.5 | 471 | 16 | 1 |
| 28 | 5309 | 9.2 | 468 | 17 | 1 |
| 29 | 5310 | 7.6 | 261 | 16 | 0 |
| 30 | 5310 | 9.8 | 439 | 17 | 1 |
| Detection Percentage (%) | | | | | 90% |

Radar Type 4 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5290 | 13.7 | 469 | 13 | 0 |
| 2 | 5291 | 15.4 | 420 | 13 | 1 |
| 3 | 5291 | 13.4 | 388 | 16 | 1 |
| 4 | 5292 | 18.6 | 267 | 12 | 1 |
| 5 | 5292 | 18.5 | 347 | 15 | 1 |
| 6 | 5293 | 19.9 | 367 | 15 | 1 |
| 7 | 5293 | 12.9 | 334 | 13 | 1 |
| 8 | 5294 | 14.8 | 349 | 16 | 1 |
| 9 | 5294 | 16.3 | 293 | 16 | 1 |
| 10 | 5295 | 13.7 | 389 | 14 | 1 |
| 11 | 5295 | 15.6 | 271 | 16 | 1 |
| 12 | 5296 | 14.1 | 443 | 12 | 1 |
| 13 | 5297 | 16.8 | 418 | 13 | 1 |
| 14 | 5298 | 12.7 | 426 | 15 | 1 |
| 15 | 5299 | 16.8 | 424 | 12 | 1 |
| 16 | 5300 | 13.9 | 273 | 12 | 1 |
| 17 | 5301 | 13.0 | 463 | 13 | 1 |
| 18 | 5302 | 15.3 | 400 | 14 | 1 |
| 19 | 5303 | 14.9 | 393 | 13 | 1 |
| 20 | 5304 | 12.6 | 358 | 12 | 1 |
| 21 | 5305 | 15.5 | 278 | 16 | 1 |
| 22 | 5306 | 15.5 | 434 | 13 | 1 |
| 23 | 5307 | 18.2 | 309 | 14 | 1 |
| 24 | 5307 | 15.3 | 379 | 14 | 1 |
| 25 | 5308 | 15.1 | 314 | 13 | 1 |
| 26 | 5308 | 17.2 | 349 | 15 | 1 |
| 27 | 5309 | 17.1 | 374 | 15 | 1 |
| 28 | 5309 | 13.6 | 329 | 12 | 1 |
| 29 | 5310 | 12.4 | 490 | 14 | 1 |
| 30 | 5310 | 12.5 | 434 | 15 | 0 |
| Detection Percentage (%) | | | | | 93.3% |

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

waveforms is as follows: $\frac{P_d1+P_d2+P_d3+P_d4}{4} = (96.7\%+96.7\%+90\%+93.3\%)/4 = 94.18\% (>80\%)$



Radar Type 5 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection | Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1 | 5290 | 0 | 16 | 5300 | 1 |
| 2 | 5291 | 0 | 17 | 5302 | 1 |
| 3 | 5292 | 0 | 18 | 5303 | 1 |
| 4 | 5293 | 1 | 19 | 5303 | 1 |
| 5 | 5294 | 1 | 20 | 5304 | 1 |
| 6 | 5295 | 1 | 21 | 5304 | 1 |
| 7 | 5296 | 1 | 22 | 5305 | 1 |
| 8 | 5297 | 1 | 23 | 5305 | 1 |
| 9 | 5298 | 1 | 24 | 5306 | 1 |
| 10 | 5299 | 1 | 25 | 5306 | 1 |
| 11 | 5300 | 1 | 26 | 5307 | 1 |
| 12 | 5300 | 1 | 27 | 5307 | 1 |
| 13 | 5301 | 1 | 28 | 5308 | 1 |
| 14 | 5301 | 1 | 29 | 5309 | 1 |
| 15 | 5302 | 1 | 30 | 5310 | 1 |
| Detection Percentage (%) | | | | | 90% |

| Type 5 Radar Waveform_1 | | | | | | | | | | |
|---|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| Waveform Num = 1 | | | | | | | | | | |
| Num of Bursts = 10 | | | | | | | | | | |
| Burst Interval (us)= 1200000 | | | | | | | | | | |
| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
| 1 | 1038695 | 2 | 20 | 60 | 1407 | 1851 | 0 | 1038695 | 0 | 1199999 |
| 2 | 242598 | 1 | 16 | 85 | 1737 | 0 | 0 | 1284551 | 1200000 | 2399999 |
| 3 | 1935796 | 3 | 14 | 95 | 1708 | 1082 | 1325 | 3222084 | 2400000 | 3599999 |
| 4 | 1125519 | 3 | 16 | 60 | 1955 | 1663 | 1182 | 4351718 | 3600000 | 4799999 |
| 5 | 933693 | 2 | 18 | 80 | 1476 | 1813 | 0 | 5290211 | 4800000 | 5999999 |
| 6 | 1596630 | 2 | 14 | 75 | 1635 | 1331 | 0 | 6890130 | 6000000 | 7199999 |
| 7 | 823225 | 1 | 8 | 80 | 1802 | 0 | 0 | 7716321 | 7200000 | 8399999 |
| 8 | 1727285 | 2 | 5 | 50 | 1339 | 1888 | 0 | 9445408 | 8400000 | 9599999 |
| 9 | 220654 | 3 | 16 | 85 | 1765 | 1871 | 1530 | 9669289 | 9600000 | 10799999 |
| 10 | 1578635 | 2 | 10 | 55 | 1447 | 1924 | 0 | 11253090 | 10800000 | 11999999 |
| Total number of pulses in waveform = 21 | | | | | | | | | | |
| ***** | | | | | | | | | | |



Type 5 Radar Waveform_2

Waveform Num = 2
Num of Bursts = 19
Burst Interval (us) = 631579

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 522083 | 1 | 9 | 80 | 1903 | 0 | 0 | 522083 | 0 | 631578 |
| 2 | 618604 | 2 | 13 | 85 | 1893 | 1975 | 0 | 1142590 | 631579 | 1263157 |
| 3 | 477684 | 1 | 15 | 55 | 1406 | 0 | 0 | 1624142 | 1263158 | 1894736 |
| 4 | 657615 | 2 | 8 | 75 | 1226 | 1809 | 0 | 2283163 | 1894737 | 2526315 |
| 5 | 355581 | 2 | 9 | 50 | 1543 | 1802 | 0 | 2641779 | 2526316 | 3157894 |
| 6 | 1029393 | 3 | 10 | 90 | 1271 | 1129 | 1034 | 3674517 | 3157895 | 3789473 |
| 7 | 627711 | 1 | 14 | 90 | 1676 | 0 | 0 | 4305662 | 3789474 | 4421052 |
| 8 | 208246 | 1 | 20 | 65 | 1397 | 0 | 0 | 4515583 | 4421053 | 5052631 |
| 9 | 580470 | 2 | 11 | 95 | 1760 | 1213 | 0 | 5097450 | 5052632 | 5684210 |
| 10 | 709589 | 1 | 20 | 65 | 1539 | 0 | 0 | 5810012 | 5684211 | 6315789 |
| 11 | 846773 | 1 | 18 | 75 | 1385 | 0 | 0 | 6658324 | 6315790 | 6947368 |
| 12 | 605203 | 1 | 11 | 65 | 1124 | 0 | 0 | 7264912 | 6947369 | 7578947 |
| 13 | 720679 | 1 | 13 | 50 | 1232 | 0 | 0 | 7986715 | 7578948 | 8210526 |
| 14 | 768226 | 2 | 9 | 50 | 1773 | 1917 | 0 | 8756173 | 8210527 | 8842105 |
| 15 | 578182 | 2 | 18 | 55 | 1226 | 1894 | 0 | 9338045 | 8842106 | 9473684 |
| 16 | 470413 | 2 | 6 | 70 | 1848 | 1650 | 0 | 9811578 | 9473685 | 10105263 |
| 17 | 758274 | 3 | 17 | 50 | 1067 | 1504 | 1308 | 10573950 | 10105264 | 10736842 |
| 18 | 626094 | 1 | 14 | 80 | 1312 | 0 | 0 | 11203323 | 10736843 | 11368421 |
| 19 | 236183 | 1 | 8 | 95 | 1613 | 0 | 0 | 11440818 | 11368422 | 12000000 |

Total number of pulses in waveform = 30

Type 5 Radar Waveform_3

Waveform Num = 3
Num of Bursts = 19
Burst Interval (us) = 631579

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 762571 | 2 | 10 | 90 | 1853 | 1429 | 0 | 243387 | 0 | 631578 |
| 2 | 243387 | 3 | 20 | 100 | 1394 | 1164 | 1478 | 1009340 | 631579 | 1263157 |
| 3 | 795948 | 1 | 18 | 65 | 1991 | 0 | 0 | 1809324 | 1263158 | 1894736 |
| 4 | 604281 | 3 | 13 | 50 | 1810 | 1145 | 1592 | 2415996 | 1894737 | 2526315 |
| 5 | 227175 | 2 | 11 | 65 | 1351 | 1536 | 0 | 2647318 | 2526316 | 3157894 |
| 6 | 1055442 | 1 | 17 | 50 | 1173 | 0 | 0 | 3705647 | 3157895 | 3789473 |
| 7 | 639243 | 3 | 17 | 65 | 1875 | 1802 | 1302 | 4346063 | 3789474 | 4421052 |
| 8 | 433822 | 3 | 18 | 75 | 1224 | 1565 | 1786 | 4784764 | 4421053 | 5052631 |
| 9 | 710197 | 1 | 15 | 50 | 1537 | 0 | 0 | 5499536 | 5052632 | 5684210 |
| 10 | 429473 | 3 | 9 | 50 | 1208 | 1135 | 1253 | 5930546 | 5684211 | 6315789 |
| 11 | 940174 | 3 | 7 | 100 | 1303 | 1300 | 1976 | 6874316 | 6315790 | 6947368 |
| 12 | 282239 | 2 | 5 | 50 | 1986 | 1185 | 0 | 7161134 | 6947369 | 7578947 |
| 13 | 668477 | 1 | 6 | 95 | 1566 | 0 | 0 | 7732782 | 7578948 | 8210526 |
| 14 | 729357 | 2 | 11 | 95 | 1096 | 1394 | 0 | 8463705 | 8210527 | 8842105 |
| 15 | 674338 | 1 | 12 | 90 | 1822 | 0 | 0 | 9140533 | 8842106 | 9473684 |
| 16 | 461033 | 3 | 6 | 85 | 1635 | 1360 | 1322 | 9603388 | 9473685 | 10105263 |
| 17 | 1005087 | 3 | 14 | 95 | 1186 | 1096 | 1503 | 10612792 | 10105264 | 10736842 |
| 18 | 679395 | 2 | 5 | 60 | 1209 | 1966 | 0 | 11295972 | 10736843 | 11368421 |
| 19 | 210617 | 1 | 18 | 70 | 1908 | 0 | 0 | 11509764 | 11368422 | 12000000 |

Total number of pulses in waveform = 40

Type 5 Radar Waveform_4

Waveform Num = 4
Num of Bursts = 11
Burst Interval (us) = 1090909

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 764508 | 2 | 6 | 85 | 1779 | 1903 | 0 | 764508 | 0 | 1090908 |
| 2 | 1077990 | 1 | 14 | 90 | 1702 | 0 | 0 | 1846180 | 1090909 | 2181817 |
| 3 | 1385162 | 1 | 5 | 55 | 1696 | 0 | 0 | 3233044 | 2181818 | 3272726 |
| 4 | 645089 | 2 | 11 | 65 | 1721 | 1847 | 0 | 3879809 | 3272727 | 4363635 |
| 5 | 1378974 | 2 | 15 | 100 | 1035 | 1394 | 0 | 5262351 | 4363636 | 5454544 |
| 6 | 189862 | 3 | 13 | 65 | 1975 | 1049 | 1812 | 5454642 | 5454545 | 6545453 |
| 7 | 1768372 | 3 | 16 | 70 | 1676 | 1923 | 1575 | 7227850 | 6545454 | 7636362 |
| 8 | 1047480 | 3 | 14 | 50 | 1249 | 1481 | 1629 | 8280504 | 7636363 | 8727271 |
| 9 | 1379680 | 3 | 20 | 55 | 1320 | 1953 | 1970 | 9664543 | 8727272 | 9818180 |
| 10 | 785661 | 1 | 19 | 100 | 1875 | 0 | 0 | 10455447 | 9818181 | 10909089 |
| 11 | 963282 | 1 | 10 | 75 | 1425 | 0 | 0 | 11420604 | 10909090 | 11999998 |

Total number of pulses in waveform = 22



Type 5 Radar Waveform_5

Waveform Num = 5
Num of Bursts = 9
Burst Interval (us)= 1333333

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 1112210 | 3 | 6 | 100 | 1839 | 1128 | 1002 | 1112210 | 0 | 1333332 |
| 2 | 320465 | 3 | 7 | 65 | 1550 | 1809 | 1577 | 1436644 | 1333333 | 2666665 |
| 3 | 1541831 | 3 | 15 | 50 | 1677 | 1888 | 1276 | 2983411 | 2666666 | 3999998 |
| 4 | 1473022 | 2 | 12 | 85 | 1103 | 1830 | 0 | 4461274 | 3999999 | 5333331 |
| 5 | 1981272 | 2 | 11 | 80 | 1230 | 1621 | 0 | 6445479 | 5333332 | 6666664 |
| 6 | 533573 | 2 | 11 | 95 | 1634 | 1510 | 0 | 6981903 | 6666665 | 7999997 |
| 7 | 1881041 | 3 | 11 | 85 | 1298 | 1075 | 1248 | 8866088 | 7999998 | 9333330 |
| 8 | 1578689 | 2 | 11 | 100 | 1612 | 1224 | 0 | 10448398 | 9333331 | 10666663 |
| 9 | 403451 | 3 | 17 | 95 | 1627 | 1201 | 1717 | 10854685 | 10666664 | 11999996 |

Total number of pulses in waveform = 23

Type 5 Radar Waveform_6

Waveform Num = 6
Num of Bursts = 18
Burst Interval (us)= 666667

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 161563 | 3 | 7 | 55 | 1245 | 1691 | 1715 | 161563 | 0 | 666666 |
| 2 | 980282 | 3 | 20 | 80 | 1157 | 1905 | 1284 | 1146496 | 666667 | 1333333 |
| 3 | 219767 | 2 | 13 | 95 | 1492 | 1493 | 0 | 1370609 | 1333334 | 2000000 |
| 4 | 810455 | 3 | 12 | 70 | 1255 | 1718 | 1711 | 2184049 | 2000001 | 2666667 |
| 5 | 957805 | 3 | 10 | 75 | 1133 | 1184 | 1072 | 3146538 | 2666668 | 3333334 |
| 6 | 311268 | 2 | 18 | 95 | 1327 | 1426 | 0 | 3461195 | 3333335 | 4000001 |
| 7 | 1067538 | 3 | 8 | 80 | 1369 | 1705 | 1018 | 4531486 | 4000002 | 4666668 |
| 8 | 153806 | 1 | 18 | 85 | 1765 | 0 | 0 | 4689384 | 4666669 | 5333335 |
| 9 | 1022895 | 2 | 12 | 100 | 1763 | 1981 | 0 | 5714044 | 5333336 | 6000002 |
| 10 | 906756 | 3 | 10 | 70 | 1131 | 1097 | 1426 | 6624544 | 6000003 | 6666669 |
| 11 | 240514 | 1 | 5 | 55 | 1241 | 0 | 0 | 6668712 | 6666670 | 7333336 |
| 12 | 933706 | 3 | 10 | 90 | 1425 | 1677 | 1055 | 7803659 | 7333337 | 8000003 |
| 13 | 228252 | 3 | 5 | 95 | 1173 | 1084 | 1438 | 8036068 | 8000004 | 8666670 |
| 14 | 1110110 | 2 | 11 | 50 | 1691 | 1229 | 0 | 9149873 | 8666671 | 9333337 |
| 15 | 701423 | 2 | 20 | 65 | 1307 | 1773 | 0 | 9854216 | 9333338 | 10000004 |
| 16 | 251984 | 3 | 12 | 60 | 1856 | 1615 | 1676 | 10109280 | 10000005 | 10666671 |
| 17 | 1185832 | 2 | 15 | 85 | 1856 | 1745 | 0 | 11300259 | 10666672 | 11333338 |
| 18 | 252669 | 1 | 19 | 90 | 1953 | 0 | 0 | 11556529 | 11333339 | 12000005 |

Total number of pulses in waveform = 42

Type 5 Radar Waveform_7

Waveform Num = 7
Num of Bursts = 13
Burst Interval (us)= 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 183330 | 1 | 8 | 80 | 1540 | 0 | 0 | 183330 | 0 | 923076 |
| 2 | 1259487 | 1 | 8 | 65 | 1025 | 0 | 0 | 1444357 | 923077 | 1846153 |
| 3 | 1023584 | 3 | 15 | 100 | 1553 | 1065 | 1508 | 2468966 | 1846154 | 2769230 |
| 4 | 1188479 | 2 | 15 | 95 | 1261 | 1646 | 0 | 3661571 | 2769231 | 3692307 |
| 5 | 872227 | 3 | 14 | 60 | 1912 | 1383 | 1564 | 4536705 | 3692308 | 4615384 |
| 6 | 273861 | 1 | 5 | 65 | 1018 | 0 | 0 | 4815425 | 4615385 | 5538461 |
| 7 | 1630113 | 2 | 15 | 75 | 1691 | 1101 | 0 | 6446556 | 5538462 | 6461538 |
| 8 | 930402 | 3 | 13 | 65 | 1242 | 1489 | 1580 | 7379750 | 6461539 | 7384615 |
| 9 | 540532 | 1 | 11 | 85 | 1429 | 0 | 0 | 7924593 | 7384616 | 8307692 |
| 10 | 495946 | 3 | 15 | 75 | 1771 | 1279 | 1832 | 8421968 | 8307693 | 9230769 |
| 11 | 1600448 | 3 | 15 | 70 | 1695 | 1312 | 1878 | 10027298 | 9230770 | 10153846 |
| 12 | 465267 | 1 | 14 | 70 | 1424 | 0 | 0 | 10497450 | 10153847 | 11076923 |
| 13 | 1308701 | 3 | 14 | 55 | 1776 | 1472 | 1942 | 11807575 | 11076924 | 12000000 |

Total number of pulses in waveform = 27



Type 5 Radar Waveform_8

Waveform Num = 8
Num of Bursts = 15
Burst Interval (us)= 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 128069 | 3 | 15 | 55 | 1155 | 1448 | 1166 | 128069 | 0 | 799999 |
| 2 | 1030495 | 3 | 19 | 100 | 1556 | 1953 | 1455 | 1162333 | 800000 | 1599999 |
| 3 | 856760 | 3 | 14 | 50 | 1529 | 1378 | 1105 | 2024157 | 1600000 | 2399999 |
| 4 | 1030445 | 1 | 16 | 100 | 1566 | 0 | 0 | 3058614 | 2400000 | 3199999 |
| 5 | 608118 | 2 | 18 | 80 | 1974 | 1755 | 0 | 3668298 | 3200000 | 3999999 |
| 6 | 1054727 | 3 | 16 | 85 | 1819 | 1891 | 1544 | 4726754 | 4000000 | 4799999 |
| 7 | 425051 | 3 | 14 | 100 | 1361 | 1837 | 1796 | 5157059 | 4800000 | 5599999 |
| 8 | 457821 | 3 | 18 | 90 | 1683 | 1642 | 1127 | 5619874 | 5600000 | 6399999 |
| 9 | 1536566 | 3 | 8 | 75 | 1779 | 1923 | 1895 | 7160892 | 6400000 | 7199999 |
| 10 | 742812 | 1 | 12 | 60 | 1842 | 0 | 0 | 7909301 | 7200000 | 7999999 |
| 11 | 169307 | 1 | 10 | 55 | 1690 | 0 | 0 | 8080450 | 8000000 | 8799999 |
| 12 | 1029487 | 2 | 8 | 60 | 1520 | 1594 | 0 | 9111627 | 8800000 | 9599999 |
| 13 | 1193516 | 2 | 20 | 75 | 1375 | 1957 | 0 | 10308257 | 9600000 | 10399999 |
| 14 | 483947 | 1 | 6 | 95 | 1949 | 0 | 0 | 10795536 | 10400000 | 11199999 |
| 15 | 402611 | 3 | 7 | 90 | 1308 | 1593 | 1736 | 11200096 | 11200000 | 11999999 |

Total number of pulses in waveform = 34

Type 5 Radar Waveform_9

Waveform Num = 9
Num of Bursts = 9
Burst Interval (us)= 1333333

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 114633 | 1 | 18 | 90 | 1063 | 0 | 0 | 114633 | 0 | 1333332 |
| 2 | 2118265 | 2 | 14 | 65 | 1050 | 1396 | 0 | 2233961 | 1333333 | 2666665 |
| 3 | 998326 | 3 | 14 | 100 | 1398 | 1663 | 1320 | 3234733 | 2666666 | 3999998 |
| 4 | 1245040 | 2 | 17 | 75 | 1421 | 1840 | 0 | 4484154 | 3999999 | 5333331 |
| 5 | 1094361 | 2 | 16 | 75 | 1936 | 1243 | 0 | 5581776 | 5333332 | 6666664 |
| 6 | 1340950 | 2 | 10 | 95 | 1206 | 1148 | 0 | 6925905 | 6666665 | 7999997 |
| 7 | 1906125 | 2 | 5 | 70 | 1547 | 1544 | 0 | 8834384 | 7999998 | 9333330 |
| 8 | 1297372 | 3 | 16 | 80 | 1680 | 1005 | 1538 | 10134847 | 9333331 | 10666663 |
| 9 | 1765588 | 3 | 12 | 80 | 1681 | 1315 | 1237 | 11904658 | 10666664 | 11999996 |

Total number of pulses in waveform = 20

Type 5 Radar Waveform_10

Waveform Num = 10
Num of Bursts = 18
Burst Interval (us)= 666667

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 192012 | 1 | 15 | 85 | 1806 | 0 | 0 | 192012 | 0 | 666666 |
| 2 | 1035644 | 3 | 12 | 50 | 1760 | 1272 | 1471 | 1229462 | 666667 | 1333333 |
| 3 | 105372 | 1 | 8 | 85 | 1128 | 0 | 0 | 1339337 | 1333334 | 2000000 |
| 4 | 987783 | 1 | 14 | 70 | 1268 | 0 | 0 | 2328248 | 2000001 | 2666667 |
| 5 | 388908 | 1 | 13 | 60 | 1606 | 0 | 0 | 3243288 | 2666668 | 3333334 |
| 6 | 540447 | 2 | 19 | 75 | 1870 | 1422 | 0 | 3633802 | 3333335 | 4000001 |
| 7 | 647175 | 3 | 12 | 50 | 1589 | 1509 | 1338 | 4177541 | 4000002 | 4666668 |
| 8 | 918107 | 2 | 14 | 65 | 1749 | 1212 | 0 | 4829152 | 4666669 | 5333335 |
| 9 | 907490 | 3 | 9 | 85 | 1530 | 1804 | 1033 | 5750220 | 5333336 | 6000002 |
| 10 | 79869 | 3 | 20 | 50 | 1630 | 1205 | 1047 | 6662077 | 6000003 | 6666669 |
| 11 | 1085073 | 1 | 11 | 75 | 1646 | 0 | 0 | 6745828 | 6666670 | 7333336 |
| 12 | 802464 | 3 | 13 | 85 | 1019 | 1111 | 1855 | 7832547 | 7333337 | 8000003 |
| 13 | 439691 | 1 | 14 | 75 | 1810 | 0 | 0 | 8638986 | 8000004 | 8666670 |
| 14 | 445843 | 1 | 10 | 80 | 1224 | 0 | 0 | 9080487 | 8666671 | 9333337 |
| 15 | 580770 | 3 | 18 | 85 | 1174 | 1921 | 1790 | 9527554 | 9333338 | 10000004 |
| 16 | 956827 | 1 | 12 | 50 | 1162 | 0 | 0 | 10113209 | 10000005 | 10666671 |
| 17 | 842594 | 3 | 14 | 95 | 1021 | 1672 | 1401 | 11071198 | 10666672 | 11333338 |
| 18 | 842594 | 2 | 10 | 80 | 1625 | 1573 | 0 | 11917886 | 11333339 | 12000005 |

Total number of pulses in waveform = 35



Type 5 Radar Waveform_11

```
Waveform Num = 11
Num of Bursts = 19
Burst Interval (us) = 631579
```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 329450 | 2 | 13 | 55 | 1996 | 1076 | 0 | 329450 | 0 | 631578 |
| 2 | 607164 | 1 | 6 | 55 | 1565 | 0 | 0 | 939686 | 631579 | 1263157 |
| 3 | 339951 | 3 | 9 | 70 | 1531 | 1452 | 1265 | 1281202 | 1263158 | 1894736 |
| 4 | 999457 | 1 | 7 | 60 | 1271 | 0 | 0 | 2284907 | 1894737 | 2526315 |
| 5 | 819570 | 2 | 8 | 60 | 1162 | 1854 | 0 | 3105748 | 2526316 | 3157894 |
| 6 | 67388 | 1 | 20 | 60 | 1938 | 0 | 0 | 3176152 | 3157895 | 3789473 |
| 7 | 371186 | 3 | 18 | 100 | 1120 | 1447 | 1801 | 4057540 | 3789474 | 4421052 |
| 8 | 371186 | 2 | 5 | 95 | 1867 | 1135 | 0 | 4433094 | 4421053 | 5052631 |
| 9 | 801507 | 3 | 8 | 100 | 1517 | 1832 | 1361 | 5237603 | 5052632 | 5684210 |
| 10 | 1055758 | 1 | 8 | 90 | 1191 | 0 | 0 | 6298071 | 5684211 | 6315789 |
| 11 | 307774 | 1 | 8 | 100 | 1180 | 0 | 0 | 6607036 | 6315790 | 6947368 |
| 12 | 506964 | 2 | 11 | 65 | 1977 | 1481 | 0 | 7115180 | 6947369 | 7578947 |
| 13 | 555264 | 1 | 20 | 80 | 1825 | 0 | 0 | 7673902 | 7578948 | 8210526 |
| 14 | 773209 | 2 | 8 | 90 | 1146 | 1343 | 0 | 8448936 | 8210527 | 8842105 |
| 15 | 869063 | 1 | 12 | 75 | 1782 | 0 | 0 | 9320488 | 8842106 | 9473684 |
| 16 | 410381 | 2 | 13 | 60 | 1856 | 1952 | 0 | 9732651 | 9473685 | 10105263 |
| 17 | 936071 | 2 | 19 | 95 | 1502 | 1879 | 0 | 10672530 | 10105264 | 10736842 |
| 18 | 467460 | 2 | 18 | 100 | 1745 | 1202 | 0 | 11143371 | 10736843 | 11368421 |
| 19 | 245397 | 2 | 6 | 50 | 1094 | 1760 | 0 | 11391715 | 11368422 | 12000000 |

Total number of pulses in waveform = 34

Type 5 Radar Waveform_12

```
Waveform Num = 12
Num of Bursts = 20
Burst Interval (us) = 600000
Burst Time (us) = 20907
```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 20907 | 3 | 9 | 65 | 1060 | 1847 | 1381 | 20907 | 0 | 699999 |
| 2 | 785327 | 2 | 10 | 100 | 1586 | 1198 | 0 | 810522 | 600000 | 1199999 |
| 3 | 775584 | 2 | 15 | 65 | 1493 | 1267 | 0 | 1588890 | 1200000 | 1799999 |
| 4 | 622563 | 2 | 5 | 75 | 1133 | 1446 | 0 | 2214213 | 1800000 | 2399999 |
| 5 | 377708 | 1 | 12 | 100 | 1099 | 0 | 0 | 2594500 | 2400000 | 2999999 |
| 6 | 655043 | 2 | 6 | 50 | 1421 | 1445 | 0 | 3250642 | 3000000 | 3599999 |
| 7 | 473623 | 3 | 12 | 50 | 1857 | 1271 | 1924 | 3727131 | 3600000 | 4199999 |
| 8 | 693704 | 3 | 7 | 65 | 1666 | 1373 | 1837 | 4425887 | 4200000 | 4799999 |
| 9 | 845489 | 3 | 7 | 75 | 1818 | 1661 | 1804 | 5276252 | 4800000 | 5399999 |
| 10 | 427389 | 1 | 15 | 65 | 1656 | 0 | 0 | 5708924 | 5400000 | 5999999 |
| 11 | 588258 | 2 | 10 | 55 | 1006 | 1388 | 0 | 6298838 | 6000000 | 6599999 |
| 12 | 822349 | 3 | 13 | 65 | 1620 | 1287 | 1955 | 7123581 | 6600000 | 7199999 |
| 13 | 443113 | 2 | 18 | 95 | 1783 | 1401 | 0 | 7571556 | 7200000 | 7799999 |
| 14 | 441606 | 2 | 14 | 75 | 1763 | 1786 | 0 | 8016346 | 7800000 | 8399999 |
| 15 | 753320 | 3 | 20 | 70 | 1096 | 1438 | 1323 | 8773215 | 8400000 | 8999999 |
| 16 | 509378 | 3 | 10 | 55 | 1967 | 1454 | 1458 | 9286450 | 9000000 | 9599999 |
| 17 | 619290 | 3 | 14 | 70 | 1394 | 1963 | 1866 | 9910619 | 9600000 | 10199999 |
| 18 | 338505 | 3 | 11 | 90 | 1020 | 1883 | 1276 | 10254347 | 10200000 | 10799999 |
| 19 | 815842 | 3 | 11 | 95 | 1021 | 1350 | 1273 | 11074368 | 10800000 | 11399999 |
| 20 | 422549 | 3 | 11 | 80 | 1060 | 1393 | 1726 | 11500561 | 11400000 | 11999999 |

Total number of pulses in waveform = 49

Type 5 Radar Waveform_13

```
Waveform Num = 13
Num of Bursts = 18
Burst Interval (us) = 666667
```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 496699 | 1 | 16 | 50 | 1303 | 0 | 0 | 496699 | 0 | 666666 |
| 2 | 394486 | 3 | 9 | 60 | 1495 | 1668 | 1359 | 891488 | 666667 | 1333333 |
| 3 | 995056 | 1 | 13 | 60 | 1489 | 0 | 0 | 1891066 | 1333334 | 2000000 |
| 4 | 763180 | 2 | 6 | 75 | 1213 | 1277 | 0 | 2655735 | 2000001 | 2666667 |
| 5 | 314546 | 3 | 9 | 55 | 1566 | 1183 | 1253 | 2972771 | 2666668 | 3333334 |
| 6 | 627893 | 1 | 12 | 80 | 1937 | 0 | 0 | 3604666 | 3333335 | 4000001 |
| 7 | 626828 | 1 | 12 | 100 | 1172 | 0 | 0 | 4233431 | 4000002 | 4666668 |
| 8 | 923198 | 2 | 5 | 95 | 1999 | 1483 | 0 | 5157801 | 4666669 | 5333335 |
| 9 | 492171 | 1 | 12 | 75 | 1698 | 0 | 0 | 5653454 | 5333336 | 6000002 |
| 10 | 389710 | 3 | 14 | 55 | 1592 | 1477 | 1002 | 6044852 | 6000003 | 6666669 |
| 11 | 777435 | 2 | 14 | 75 | 1597 | 1357 | 0 | 6826368 | 6666670 | 7333336 |
| 12 | 943377 | 1 | 13 | 100 | 1567 | 0 | 0 | 7772699 | 7333337 | 8000003 |
| 13 | 316004 | 1 | 8 | 60 | 1736 | 0 | 0 | 8090270 | 8000004 | 8666670 |
| 14 | 1214911 | 2 | 20 | 50 | 1488 | 1900 | 0 | 9306917 | 8666671 | 9333337 |
| 15 | 285958 | 3 | 10 | 95 | 1487 | 1233 | 1345 | 9595263 | 9333338 | 10000004 |
| 16 | 479689 | 3 | 5 | 70 | 1440 | 1533 | 1285 | 10080017 | 10000005 | 10666671 |
| 17 | 591528 | 3 | 20 | 90 | 1570 | 1308 | 1025 | 10675803 | 10666672 | 11333338 |
| 18 | 1146458 | 3 | 13 | 85 | 1382 | 1166 | 1378 | 11826164 | 11333339 | 12000005 |

Total number of pulses in waveform = 36



Type 5 Radar Waveform_14

Waveform Num = 14
Num of Bursts = 15
Burst Interval (us) = 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 413884 | 1 | 13 | 80 | 1154 | 0 | 0 | 413884 | 0 | 799999 |
| 2 | 644871 | 1 | 12 | 85 | 1927 | 0 | 0 | 1059909 | 800000 | 1599999 |
| 3 | 620366 | 2 | 10 | 95 | 1274 | 1802 | 0 | 1682202 | 1600000 | 2399999 |
| 4 | 1132093 | 3 | 15 | 75 | 1320 | 1300 | 1078 | 2817371 | 2400000 | 3199999 |
| 5 | 1118808 | 1 | 11 | 60 | 1881 | 0 | 0 | 3998877 | 3200000 | 3999999 |
| 6 | 772013 | 1 | 12 | 95 | 1408 | 0 | 0 | 4713771 | 4000000 | 4799999 |
| 7 | 470003 | 2 | 14 | 95 | 1391 | 1281 | 0 | 5185182 | 4800000 | 5599999 |
| 8 | 1120414 | 2 | 9 | 65 | 1388 | 1531 | 0 | 6308268 | 5600000 | 6399999 |
| 9 | 653756 | 1 | 10 | 55 | 1093 | 0 | 0 | 6864943 | 6400000 | 7199999 |
| 10 | 801360 | 2 | 6 | 55 | 1730 | 1766 | 0 | 7767396 | 7200000 | 7999999 |
| 11 | 465509 | 1 | 16 | 70 | 1457 | 0 | 0 | 8236401 | 8000000 | 8799999 |
| 12 | 1128586 | 2 | 9 | 60 | 1899 | 1440 | 0 | 9366444 | 8800000 | 9599999 |
| 13 | 243087 | 2 | 9 | 75 | 1033 | 1834 | 0 | 9612870 | 9600000 | 10399999 |
| 14 | 851236 | 2 | 10 | 65 | 1554 | 1353 | 0 | 10468973 | 10400000 | 11199999 |
| 15 | 785503 | 3 | 19 | 100 | 1738 | 1478 | 1564 | 11255383 | 11200000 | 11999999 |

Total number of pulses in waveform = 26

Type 5 Radar Waveform_15

Waveform Num = 15
Num of Bursts = 19
Burst Interval (us) = 631579

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 94641 | 3 | 8 | 65 | 1986 | 1262 | 1123 | 94641 | 0 | 631578 |
| 2 | 700685 | 1 | 20 | 65 | 1485 | 0 | 0 | 799697 | 631579 | 1263157 |
| 3 | 542099 | 2 | 16 | 80 | 1752 | 1904 | 0 | 1343881 | 1263158 | 1894736 |
| 4 | 735078 | 1 | 8 | 50 | 1990 | 0 | 0 | 2082615 | 1894737 | 2526315 |
| 5 | 1040855 | 3 | 10 | 90 | 1009 | 1747 | 1065 | 3124860 | 2526316 | 3157894 |
| 6 | 481987 | 2 | 11 | 65 | 1613 | 1461 | 0 | 3610668 | 3157895 | 3789473 |
| 7 | 619070 | 3 | 14 | 100 | 1239 | 1632 | 1879 | 4132802 | 3789474 | 4421052 |
| 8 | 804938 | 1 | 8 | 75 | 1731 | 0 | 0 | 4942488 | 4421053 | 5052631 |
| 9 | 272406 | 2 | 18 | 90 | 1280 | 1130 | 0 | 5216625 | 5052632 | 5684210 |
| 10 | 534485 | 2 | 16 | 60 | 1603 | 1652 | 0 | 5753520 | 5684211 | 6315789 |
| 11 | 852362 | 1 | 12 | 50 | 1133 | 0 | 0 | 6609137 | 6315790 | 6947368 |
| 12 | 414398 | 1 | 18 | 95 | 1300 | 0 | 0 | 7024668 | 6947369 | 7578947 |
| 13 | 1116578 | 3 | 8 | 95 | 1975 | 1122 | 1939 | 8142546 | 7578948 | 8210526 |
| 14 | 496706 | 1 | 10 | 90 | 1484 | 0 | 0 | 8644288 | 8210527 | 8842105 |
| 15 | 598369 | 2 | 15 | 80 | 1191 | 1806 | 0 | 9244141 | 8842106 | 9473684 |
| 16 | 273966 | 1 | 9 | 50 | 1678 | 0 | 0 | 9821104 | 9473685 | 10105263 |
| 17 | 1185330 | 2 | 14 | 65 | 1410 | 1893 | 0 | 10708012 | 10105264 | 10736842 |
| 18 | 242464 | 1 | 14 | 85 | 1729 | 0 | 0 | 10953779 | 10736843 | 11368421 |
| 19 | 895834 | 3 | 7 | 80 | 1127 | 1396 | 1906 | 11551342 | 11368422 | 12000000 |

Total number of pulses in waveform = 35

Type 5 Radar Waveform_16

Waveform Num = 16
Num of Bursts = 9
Burst Interval (us) = 1333333

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 1071680 | 3 | 6 | 70 | 1427 | 1102 | 1984 | 1071680 | 0 | 1333332 |
| 2 | 374210 | 2 | 8 | 100 | 1236 | 1465 | 0 | 1450403 | 1333333 | 2666665 |
| 3 | 2210290 | 1 | 20 | 95 | 1838 | 0 | 0 | 3663394 | 2666666 | 3999998 |
| 4 | 1498610 | 2 | 20 | 75 | 1852 | 1421 | 0 | 5163842 | 3999999 | 5333331 |
| 5 | 1202960 | 3 | 13 | 60 | 1095 | 1375 | 1829 | 6370075 | 5333332 | 6666664 |
| 6 | 1501696 | 2 | 15 | 70 | 1102 | 1612 | 0 | 7876070 | 6666665 | 7999997 |
| 7 | 741920 | 2 | 14 | 65 | 1604 | 1997 | 0 | 8620704 | 7999998 | 9333330 |
| 8 | 905436 | 2 | 13 | 100 | 1847 | 1915 | 0 | 9529741 | 9333331 | 10666663 |
| 9 | 2088822 | 1 | 14 | 80 | 1514 | 0 | 0 | 11622325 | 10666664 | 11999996 |

Total number of pulses in waveform = 18



Type 5 Radar Waveform_17

Waveform Num = 17
Num of Bursts = 18
Burst Interval (us) = 666667

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 617253 | 2 | 12 | 55 | 1857 | 1743 | 0 | 99678 | 0 | 666666 |
| 2 | 1071765 | 2 | 5 | 100 | 1177 | 1419 | 0 | 720531 | 666667 | 1333333 |
| 3 | 851904 | 1 | 11 | 55 | 1099 | 0 | 0 | 1794892 | 1333334 | 2000000 |
| 4 | 341203 | 1 | 12 | 100 | 1337 | 0 | 0 | 2647895 | 2000001 | 2666667 |
| 5 | 733154 | 1 | 11 | 80 | 1366 | 0 | 0 | 2990435 | 2666668 | 3333334 |
| 6 | 801641 | 3 | 7 | 60 | 1932 | 1741 | 1801 | 3724955 | 3333335 | 4000001 |
| 7 | 579728 | 3 | 11 | 75 | 1683 | 1499 | 1806 | 4532070 | 4000002 | 4666668 |
| 8 | 361198 | 2 | 5 | 75 | 1179 | 1536 | 0 | 5116786 | 4666669 | 5333335 |
| 9 | 1061165 | 2 | 8 | 95 | 1869 | 1974 | 0 | 5480699 | 5333336 | 6000002 |
| 10 | 578003 | 1 | 16 | 90 | 1111 | 0 | 0 | 6545707 | 6000003 | 6666669 |
| 11 | 739404 | 1 | 18 | 70 | 1853 | 0 | 0 | 7124821 | 6666670 | 7333336 |
| 12 | 535066 | 2 | 14 | 80 | 1436 | 1526 | 0 | 7868078 | 7333337 | 8000003 |
| 13 | 260146 | 3 | 7 | 50 | 1374 | 1843 | 1833 | 8404106 | 8000004 | 8666670 |
| 14 | 1182951 | 1 | 5 | 75 | 1330 | 0 | 0 | 8669302 | 8666671 | 9333337 |
| 15 | 533485 | 1 | 9 | 60 | 1751 | 0 | 0 | 9853583 | 9333338 | 10000004 |
| 16 | 644632 | 2 | 14 | 85 | 1318 | 1291 | 0 | 10388819 | 10000005 | 10666671 |
| 17 | 831728 | 1 | 5 | 100 | 1241 | 0 | 0 | 11036060 | 10666672 | 11333338 |
| 18 | 260146 | 2 | 10 | 75 | 1836 | 1946 | 0 | 11869029 | 11333339 | 12000005 |

Total number of pulses in waveform = 31

Type 5 Radar Waveform_18

Waveform Num = 18
Num of Bursts = 13
Burst Interval (us) = 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 203347 | 2 | 11 | 50 | 1470 | 1395 | 0 | 203347 | 0 | 923076 |
| 2 | 1473099 | 2 | 16 | 90 | 1918 | 1936 | 0 | 1679311 | 923077 | 1846153 |
| 3 | 729154 | 2 | 17 | 85 | 1982 | 1186 | 0 | 2412319 | 1846154 | 2769230 |
| 4 | 1073182 | 3 | 10 | 65 | 1619 | 1644 | 1009 | 3488669 | 2769231 | 3692307 |
| 5 | 866833 | 1 | 20 | 55 | 1053 | 0 | 0 | 4359774 | 3692308 | 4615384 |
| 6 | 297043 | 1 | 10 | 65 | 1168 | 0 | 0 | 4657870 | 4615385 | 5538461 |
| 7 | 1496087 | 2 | 14 | 90 | 1805 | 1954 | 0 | 6155125 | 5538462 | 6461538 |
| 8 | 712009 | 2 | 20 | 95 | 1154 | 1528 | 0 | 6870893 | 6461539 | 7384615 |
| 9 | 1195232 | 2 | 5 | 90 | 1240 | 1412 | 0 | 8068807 | 7384616 | 8307692 |
| 10 | 819067 | 2 | 19 | 55 | 1683 | 1829 | 0 | 8890526 | 8307693 | 9230769 |
| 11 | 791275 | 2 | 14 | 95 | 1401 | 1672 | 0 | 9685313 | 9230770 | 10153846 |
| 12 | 474803 | 2 | 12 | 70 | 1722 | 1667 | 0 | 10163189 | 10153847 | 11076923 |
| 13 | 1275319 | 2 | 9 | 50 | 1184 | 1471 | 0 | 11441897 | 11076924 | 12000000 |

Total number of pulses in waveform = 25

Type 5 Radar Waveform_19

Waveform Num = 19
Num of Bursts = 8
Burst Interval (us) = 1500000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 312432 | 2 | 6 | 90 | 1043 | 1932 | 0 | 312432 | 0 | 1499999 |
| 2 | 1519112 | 3 | 12 | 100 | 1274 | 1039 | 1362 | 1834519 | 1500000 | 2999999 |
| 3 | 1428032 | 1 | 10 | 80 | 1553 | 0 | 0 | 3266226 | 3000000 | 4499999 |
| 4 | 2486109 | 1 | 12 | 90 | 1392 | 0 | 0 | 5753888 | 4500000 | 5999999 |
| 5 | 1164993 | 1 | 10 | 95 | 1319 | 0 | 0 | 6920273 | 6000000 | 7499999 |
| 6 | 2040839 | 1 | 20 | 55 | 1441 | 0 | 0 | 8962431 | 7500000 | 8999999 |
| 7 | 1334286 | 1 | 15 | 85 | 1591 | 0 | 0 | 10298158 | 9000000 | 10499999 |
| 8 | 654233 | 3 | 17 | 95 | 1208 | 1990 | 1258 | 10953982 | 10500000 | 11999999 |

Total number of pulses in waveform = 13



Type 5 Radar Waveform_20

Waveform Num = 20
Num of Bursts = 15
Burst Interval (us) = 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 400137 | 1 | 14 | 55 | 1733 | 0 | 0 | 400137 | 0 | 799999 |
| 2 | 726472 | 3 | 20 | 85 | 1319 | 1361 | 1463 | 1128342 | 800000 | 1599999 |
| 3 | 769315 | 3 | 11 | 60 | 1186 | 1378 | 1370 | 1901800 | 1600000 | 2399999 |
| 4 | 881155 | 2 | 15 | 70 | 1634 | 1698 | 0 | 2786889 | 2400000 | 3199999 |
| 5 | 773512 | 2 | 11 | 75 | 1082 | 1927 | 0 | 3563733 | 3200000 | 3999999 |
| 6 | 578243 | 2 | 6 | 65 | 1365 | 1778 | 0 | 4144985 | 4000000 | 4799999 |
| 7 | 734202 | 2 | 17 | 70 | 1338 | 1393 | 0 | 4882330 | 4800000 | 5599999 |
| 8 | 1506922 | 1 | 5 | 75 | 1687 | 0 | 0 | 6391983 | 5600000 | 6399999 |
| 9 | 55204 | 3 | 19 | 90 | 1021 | 1075 | 1920 | 6448874 | 6400000 | 7199999 |
| 10 | 1506174 | 2 | 13 | 90 | 1424 | 1310 | 0 | 7959064 | 7200000 | 7999999 |
| 11 | 451619 | 2 | 18 | 85 | 1162 | 1838 | 0 | 8413417 | 8000000 | 8799999 |
| 12 | 586302 | 1 | 16 | 90 | 1548 | 0 | 0 | 9002719 | 8800000 | 9599999 |
| 13 | 1366368 | 3 | 20 | 70 | 1446 | 1390 | 1713 | 10370635 | 9600000 | 10399999 |
| 14 | 525810 | 2 | 10 | 50 | 1789 | 1067 | 0 | 10900994 | 10400000 | 11199999 |
| 15 | 804699 | 1 | 12 | 90 | 1707 | 0 | 0 | 11708549 | 11200000 | 11999999 |

Total number of pulses in waveform = 30

Type 5 Radar Waveform_21

Waveform Num = 21
Num of Bursts = 13
Burst Interval (us) = 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 294608 | 2 | 9 | 85 | 1288 | 1827 | 0 | 294608 | 0 | 923076 |
| 2 | 524062 | 3 | 11 | 95 | 1985 | 1497 | 1417 | 1121785 | 923077 | 1846153 |
| 3 | 897858 | 1 | 19 | 50 | 1825 | 0 | 0 | 2024542 | 1846154 | 2769230 |
| 4 | 1306798 | 2 | 6 | 85 | 1803 | 1361 | 0 | 3333165 | 2769231 | 3692307 |
| 5 | 1222616 | 1 | 13 | 55 | 1292 | 0 | 0 | 4558945 | 3692308 | 4615384 |
| 6 | 729905 | 1 | 16 | 65 | 1406 | 0 | 0 | 5290142 | 4615385 | 5538461 |
| 7 | 808313 | 1 | 5 | 65 | 1860 | 0 | 0 | 6099861 | 5538462 | 6461538 |
| 8 | 436795 | 2 | 17 | 100 | 1980 | 1048 | 0 | 6538516 | 6461539 | 7384615 |
| 9 | 1693845 | 2 | 11 | 55 | 1236 | 1336 | 0 | 8235389 | 7384616 | 8307692 |
| 10 | 609696 | 1 | 9 | 75 | 1637 | 0 | 0 | 8847657 | 8307693 | 9230769 |
| 11 | 898430 | 3 | 15 | 60 | 1924 | 1932 | 1478 | 9747724 | 9230770 | 10153846 |
| 12 | 424704 | 3 | 11 | 85 | 1070 | 1908 | 1614 | 10177762 | 10153847 | 11076923 |
| 13 | 1288041 | 2 | 20 | 75 | 1670 | 1304 | 0 | 11450395 | 11076924 | 12000000 |

Total number of pulses in waveform = 24

Type 5 Radar Waveform_22

Waveform Num = 22
Num of Bursts = 19
Burst Interval (us) = 631579

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 546339 | 2 | 16 | 70 | 1537 | 1561 | 0 | 546339 | 0 | 631578 |
| 2 | 560129 | 2 | 20 | 95 | 1788 | 1682 | 0 | 1109566 | 631579 | 1263157 |
| 3 | 210679 | 2 | 7 | 75 | 1833 | 1871 | 0 | 1323715 | 1263158 | 1894736 |
| 4 | 686802 | 1 | 5 | 80 | 1232 | 0 | 0 | 2013221 | 1894737 | 2526315 |
| 5 | 710260 | 2 | 10 | 95 | 1349 | 1778 | 0 | 2724703 | 2526316 | 3157894 |
| 6 | 862322 | 3 | 11 | 95 | 1836 | 1166 | 1057 | 3590152 | 3157895 | 3789473 |
| 7 | 317277 | 3 | 20 | 50 | 1547 | 1056 | 1050 | 3911477 | 3789474 | 4421052 |
| 8 | 640638 | 1 | 11 | 55 | 1836 | 0 | 0 | 4555768 | 4421053 | 5052631 |
| 9 | 1110263 | 2 | 12 | 80 | 1572 | 1491 | 0 | 5667867 | 5052632 | 5684210 |
| 10 | 95388 | 2 | 6 | 60 | 1440 | 1642 | 0 | 5766318 | 5684211 | 6315789 |
| 11 | 1047820 | 2 | 20 | 65 | 1458 | 1483 | 0 | 6817220 | 6315790 | 6947368 |
| 12 | 272956 | 2 | 5 | 50 | 1369 | 1022 | 0 | 7093117 | 6947369 | 7578947 |
| 13 | 1022364 | 1 | 13 | 70 | 1161 | 0 | 0 | 8117872 | 7578948 | 8210526 |
| 14 | 524517 | 3 | 15 | 70 | 1208 | 1261 | 1067 | 8643550 | 8210527 | 8842105 |
| 15 | 381292 | 3 | 13 | 80 | 1409 | 1114 | 1947 | 9028378 | 8842106 | 9473684 |
| 16 | 844001 | 2 | 14 | 55 | 1763 | 1979 | 0 | 9876849 | 9473685 | 10105263 |
| 17 | 275362 | 1 | 17 | 70 | 1443 | 0 | 0 | 10155953 | 10105264 | 10736842 |
| 18 | 961655 | 1 | 9 | 85 | 1695 | 0 | 0 | 11119051 | 10736843 | 11368421 |
| 19 | 609984 | 1 | 11 | 90 | 1889 | 0 | 0 | 11730730 | 11368422 | 12000000 |

Total number of pulses in waveform = 36



Type 5 Radar Waveform_23

Waveform Num = 23
 Num of Bursts = 19
 Burst Interval (us) = 631579

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 156654 | 3 | 15 | 85 | 1362 | 1650 | 1600 | 156654 | 0 | 631578 |
| 2 | 794909 | 3 | 7 | 60 | 1191 | 1753 | 1327 | 956175 | 631579 | 1263157 |
| 3 | 458705 | 1 | 18 | 75 | 1136 | 0 | 0 | 1418151 | 1263158 | 1894736 |
| 4 | 798849 | 3 | 9 | 80 | 1221 | 1869 | 1111 | 2218136 | 1894737 | 2526315 |
| 5 | 823739 | 3 | 11 | 75 | 1750 | 1548 | 1943 | 3046076 | 2526316 | 3157894 |
| 6 | 609517 | 2 | 9 | 90 | 1667 | 1616 | 0 | 3660234 | 3157895 | 3789473 |
| 7 | 384185 | 3 | 15 | 70 | 1779 | 1056 | 1222 | 4047902 | 3789474 | 4421052 |
| 8 | 610100 | 3 | 10 | 65 | 1656 | 1729 | 1354 | 4662059 | 4421053 | 5052631 |
| 9 | 393012 | 3 | 15 | 80 | 1713 | 0 | 0 | 5059810 | 5052632 | 5684210 |
| 10 | 1214672 | 2 | 9 | 95 | 1740 | 1964 | 0 | 6276195 | 5684211 | 6315789 |
| 11 | 251745 | 2 | 6 | 80 | 1381 | 1330 | 0 | 6531644 | 6315790 | 6947368 |
| 12 | 947699 | 2 | 17 | 75 | 1841 | 1618 | 0 | 7482054 | 6947369 | 7578947 |
| 13 | 272664 | 3 | 8 | 90 | 1567 | 1194 | 1234 | 7758177 | 7578948 | 8210526 |
| 14 | 788845 | 3 | 15 | 85 | 1018 | 1795 | 1385 | 8561017 | 8210527 | 8842105 |
| 15 | 303339 | 1 | 19 | 50 | 1597 | 0 | 0 | 8858554 | 8842106 | 9473684 |
| 16 | 670081 | 3 | 12 | 100 | 1367 | 1850 | 1670 | 9530232 | 9473685 | 10105263 |
| 17 | 880827 | 1 | 10 | 55 | 1042 | 0 | 0 | 10416946 | 10105264 | 10736842 |
| 18 | 493523 | 3 | 11 | 95 | 1670 | 1686 | 1676 | 10910511 | 10736843 | 11368421 |
| 19 | 866693 | 3 | 20 | 50 | 1736 | 1627 | 1503 | 11782236 | 11368422 | 12000000 |

Total number of pulses in waveform = 45

Type 5 Radar Waveform_24

Waveform Num = 24
 Num of Bursts = 9
 Burst Interval (us) = 1333333

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 388105 | 3 | 7 | 55 | 1182 | 1106 | 1094 | 388105 | 0 | 1333332 |
| 2 | 1225426 | 3 | 11 | 60 | 1394 | 1453 | 1432 | 1616913 | 1333333 | 2666665 |
| 3 | 1608848 | 1 | 7 | 75 | 1406 | 0 | 0 | 3230040 | 2666666 | 3999998 |
| 4 | 1360521 | 1 | 20 | 90 | 1954 | 0 | 0 | 4591967 | 3999999 | 5333331 |
| 5 | 1491043 | 1 | 12 | 70 | 1932 | 0 | 0 | 6084964 | 5333332 | 6666664 |
| 6 | 1604841 | 1 | 13 | 80 | 1110 | 0 | 0 | 7691737 | 6666665 | 7999997 |
| 7 | 780571 | 3 | 14 | 100 | 1085 | 1531 | 1552 | 8473418 | 7999998 | 9333330 |
| 8 | 1698288 | 2 | 16 | 90 | 1647 | 1978 | 0 | 10175874 | 9333331 | 10666663 |
| 9 | 587739 | 2 | 18 | 80 | 1708 | 1792 | 0 | 10767238 | 10666664 | 11999996 |

Total number of pulses in waveform = 17

Type 5 Radar Waveform_25

Waveform Num = 25
 Num of Bursts = 12
 Burst Interval (us) = 1000000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 503834 | 2 | 10 | 55 | 1702 | 1489 | 0 | 503834 | 0 | 999999 |
| 2 | 522870 | 1 | 17 | 65 | 1225 | 0 | 0 | 1029895 | 1000000 | 1999999 |
| 3 | 1806167 | 3 | 17 | 65 | 1343 | 1544 | 1461 | 2837287 | 2000000 | 2999999 |
| 4 | 272584 | 1 | 14 | 70 | 1138 | 0 | 0 | 3114219 | 3000000 | 3999999 |
| 5 | 1772987 | 3 | 14 | 100 | 1016 | 1525 | 1273 | 4888344 | 4000000 | 4999999 |
| 6 | 786965 | 2 | 6 | 100 | 1193 | 1888 | 0 | 5679123 | 5000000 | 5999999 |
| 7 | 1315383 | 1 | 14 | 75 | 1264 | 0 | 0 | 6997567 | 6000000 | 6999999 |
| 8 | 19762 | 2 | 7 | 70 | 1378 | 1962 | 0 | 7018593 | 7000000 | 7999999 |
| 9 | 1104616 | 2 | 20 | 60 | 1607 | 1246 | 0 | 8126549 | 8000000 | 8999999 |
| 10 | 890024 | 3 | 19 | 75 | 1221 | 1208 | 1706 | 9019426 | 9000000 | 9999999 |
| 11 | 1839649 | 1 | 13 | 65 | 1047 | 0 | 0 | 10863210 | 10000000 | 10999999 |
| 12 | 799291 | 3 | 10 | 85 | 1918 | 1756 | 1903 | 11663548 | 11000000 | 11999999 |

Total number of pulses in waveform = 24



Type 5 Radar Waveform_26

Waveform Num = 26
Num of Bursts = 15
Burst Interval (us) = 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 633475 | 2 | 5 | 95 | 1963 | 1789 | 0 | 633475 | 0 | 799999 |
| 2 | 732462 | 2 | 15 | 55 | 1701 | 1840 | 0 | 1369689 | 800000 | 1599999 |
| 3 | 298536 | 3 | 18 | 85 | 1480 | 1730 | 1245 | 1671766 | 1600000 | 2399999 |
| 4 | 1397712 | 3 | 13 | 75 | 1157 | 1998 | 1102 | 3073933 | 2400000 | 3199999 |
| 5 | 356574 | 2 | 16 | 95 | 1909 | 1308 | 0 | 3434764 | 3200000 | 3999999 |
| 6 | 587396 | 2 | 12 | 100 | 1292 | 1756 | 0 | 4025377 | 4000000 | 4799999 |
| 7 | 1106411 | 2 | 7 | 95 | 1503 | 1687 | 0 | 5134836 | 4800000 | 5599999 |
| 8 | 1098701 | 1 | 14 | 95 | 1682 | 0 | 0 | 6236727 | 5600000 | 6399999 |
| 9 | 402030 | 1 | 18 | 70 | 1386 | 0 | 0 | 6640439 | 6400000 | 7199999 |
| 10 | 947822 | 1 | 13 | 80 | 1518 | 0 | 0 | 7589647 | 7200000 | 7999999 |
| 11 | 1125715 | 2 | 12 | 75 | 1512 | 1583 | 0 | 8716880 | 8000000 | 8799999 |
| 12 | 586611 | 1 | 9 | 70 | 1683 | 0 | 0 | 9306586 | 8800000 | 9599999 |
| 13 | 905593 | 2 | 13 | 70 | 1988 | 1735 | 0 | 10213862 | 9600000 | 10399999 |
| 14 | 220304 | 2 | 15 | 70 | 1189 | 1198 | 0 | 10437889 | 10400000 | 11199999 |
| 15 | 1375722 | 1 | 17 | 55 | 1568 | 0 | 0 | 11815998 | 11200000 | 11999999 |

Total number of pulses in waveform = 27

Type 5 Radar Waveform_27

Waveform Num = 27
Num of Bursts = 13
Burst Interval (us) = 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 524504 | 1 | 11 | 55 | 1873 | 0 | 0 | 524504 | 0 | 923076 |
| 2 | 1042497 | 2 | 8 | 65 | 1380 | 1835 | 0 | 1568874 | 923077 | 1846153 |
| 3 | 374687 | 3 | 19 | 60 | 1799 | 1761 | 1748 | 1946776 | 1846154 | 2769230 |
| 4 | 1717110 | 1 | 14 | 100 | 1786 | 0 | 0 | 3669194 | 2769231 | 3692307 |
| 5 | 312922 | 2 | 19 | 100 | 1928 | 1098 | 0 | 3983902 | 3692308 | 4615384 |
| 6 | 1504344 | 2 | 6 | 75 | 1360 | 1573 | 0 | 5491272 | 4615385 | 5538461 |
| 7 | 716969 | 1 | 20 | 50 | 1855 | 0 | 0 | 6211174 | 5538462 | 6461538 |
| 8 | 820193 | 3 | 17 | 50 | 1255 | 1356 | 1759 | 7033222 | 6461539 | 7384615 |
| 9 | 848540 | 1 | 11 | 95 | 1931 | 0 | 0 | 7886132 | 7384616 | 8307692 |
| 10 | 1196220 | 1 | 7 | 55 | 1549 | 0 | 0 | 9084283 | 8307693 | 9230769 |
| 11 | 852711 | 3 | 18 | 90 | 1503 | 1855 | 1725 | 9938543 | 9230770 | 10153846 |
| 12 | 384691 | 2 | 11 | 55 | 1758 | 1947 | 0 | 10328317 | 10153847 | 11076923 |
| 13 | 1215582 | 1 | 9 | 65 | 1442 | 0 | 0 | 11547604 | 11076924 | 12000000 |

Total number of pulses in waveform = 23

Type 5 Radar Waveform_28

Waveform Num = 28
Num of Bursts = 16
Burst Interval (us) = 750000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 477079 | 1 | 16 | 80 | 1752 | 0 | 0 | 477079 | 0 | 749999 |
| 2 | 622882 | 3 | 17 | 85 | 1722 | 1573 | 1949 | 1101713 | 750000 | 1499999 |
| 3 | 1088754 | 2 | 18 | 60 | 1636 | 1757 | 0 | 2195711 | 1500000 | 2249999 |
| 4 | 686555 | 3 | 13 | 70 | 1077 | 1455 | 1634 | 2885659 | 2250000 | 2999999 |
| 5 | 184106 | 3 | 20 | 85 | 1444 | 1531 | 1949 | 3073931 | 3000000 | 3749999 |
| 6 | 751430 | 1 | 13 | 100 | 1132 | 0 | 0 | 3830285 | 3750000 | 4499999 |
| 7 | 852271 | 2 | 5 | 70 | 1831 | 1693 | 0 | 4683688 | 4500000 | 5249999 |
| 8 | 1209972 | 2 | 7 | 75 | 1570 | 1542 | 0 | 5897184 | 5250000 | 5999999 |
| 9 | 685168 | 1 | 19 | 65 | 1274 | 0 | 0 | 6885464 | 6000000 | 6749999 |
| 10 | 768851 | 2 | 8 | 60 | 1192 | 1296 | 0 | 7355589 | 6750000 | 7499999 |
| 11 | 441301 | 2 | 17 | 55 | 1720 | 1720 | 0 | 7799378 | 7500000 | 8249999 |
| 12 | 671982 | 2 | 8 | 85 | 1202 | 1991 | 0 | 8474800 | 8250000 | 8999999 |
| 13 | 752021 | 1 | 17 | 95 | 1949 | 0 | 0 | 9230014 | 9000000 | 9749999 |
| 14 | 970345 | 2 | 20 | 80 | 1672 | 1454 | 0 | 10202308 | 9750000 | 10499999 |
| 15 | 557789 | 1 | 12 | 85 | 1045 | 0 | 0 | 10763223 | 10500000 | 11249999 |
| 16 | 1105975 | 1 | 6 | 50 | 1980 | 0 | 0 | 11870243 | 11250000 | 11999999 |

Total number of pulses in waveform = 29



Type 5 Radar Waveform_29

Waveform Num = 29
Num of Bursts = 18
Burst Interval (us) = 666667

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 538939 | 3 | 16 | 95 | 1369 | 1158 | 1544 | 538939 | 0 | 666666 |
| 2 | 622922 | 2 | 10 | 55 | 1045 | 1286 | 0 | 1165932 | 666667 | 1333333 |
| 3 | 333237 | 1 | 18 | 90 | 1903 | 0 | 0 | 1501500 | 1333334 | 2000000 |
| 4 | 696458 | 2 | 8 | 75 | 1965 | 1576 | 0 | 2199861 | 2000001 | 2666667 |
| 5 | 1028504 | 2 | 13 | 90 | 1220 | 1747 | 0 | 3231906 | 2666668 | 3333334 |
| 6 | 283030 | 1 | 9 | 50 | 1910 | 0 | 0 | 3517903 | 3333335 | 4000001 |
| 7 | 958599 | 2 | 18 | 85 | 1690 | 1950 | 0 | 4478412 | 4000002 | 4666668 |
| 8 | 546330 | 1 | 6 | 60 | 1239 | 0 | 0 | 5028382 | 4666669 | 5333335 |
| 9 | 785287 | 2 | 13 | 85 | 1695 | 1870 | 0 | 5814908 | 5333336 | 6000002 |
| 10 | 212433 | 1 | 6 | 60 | 1456 | 0 | 0 | 6030906 | 6000003 | 6666669 |
| 11 | 663784 | 3 | 8 | 50 | 1248 | 1249 | 1275 | 6696146 | 6666670 | 7333336 |
| 12 | 1074886 | 2 | 18 | 80 | 1677 | 1677 | 0 | 7774804 | 7333337 | 8000003 |
| 13 | 583174 | 2 | 19 | 65 | 1901 | 1508 | 0 | 8361332 | 8000004 | 8666670 |
| 14 | 946958 | 1 | 7 | 85 | 1537 | 0 | 0 | 9311699 | 8666671 | 9333337 |
| 15 | 473381 | 3 | 5 | 85 | 1668 | 1267 | 1893 | 9786617 | 9333338 | 10000004 |
| 16 | 685648 | 2 | 20 | 75 | 1861 | 1141 | 0 | 10477093 | 10000005 | 10666671 |
| 17 | 625446 | 2 | 20 | 75 | 1608 | 1844 | 0 | 11105541 | 10666672 | 11333338 |
| 18 | 299866 | 3 | 20 | 70 | 1352 | 1769 | 1287 | 11408859 | 11333339 | 12000005 |

Total number of pulses in waveform = 35

Type 5 Radar Waveform_30

Waveform Num = 30
Num of Bursts = 12
Burst Interval (us) = 1000000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 424108 | 1 | 17 | 55 | 1850 | 0 | 0 | 424108 | 0 | 999999 |
| 2 | 1381673 | 2 | 8 | 85 | 1728 | 1691 | 0 | 1807631 | 1000000 | 1999999 |
| 3 | 1124271 | 2 | 7 | 95 | 1238 | 1633 | 0 | 2935321 | 2000000 | 2999999 |
| 4 | 945879 | 3 | 14 | 75 | 1098 | 1850 | 1276 | 3884071 | 3000000 | 3999999 |
| 5 | 277616 | 2 | 12 | 90 | 1892 | 1479 | 0 | 4165911 | 4000000 | 4999999 |
| 6 | 1074538 | 2 | 13 | 90 | 1996 | 1957 | 0 | 5243820 | 5000000 | 5999999 |
| 7 | 1305275 | 1 | 5 | 75 | 1688 | 0 | 0 | 6553048 | 6000000 | 6999999 |
| 8 | 1114356 | 1 | 16 | 70 | 1591 | 0 | 0 | 7669092 | 7000000 | 7999999 |
| 9 | 508637 | 2 | 7 | 50 | 1220 | 1964 | 0 | 8179320 | 8000000 | 8999999 |
| 10 | 1134447 | 2 | 16 | 85 | 1827 | 1344 | 0 | 9316951 | 9000000 | 9999999 |
| 11 | 726318 | 2 | 14 | 85 | 1738 | 1001 | 0 | 10046440 | 10000000 | 10999999 |
| 12 | 1782029 | 2 | 10 | 75 | 1487 | 1392 | 0 | 11831208 | 11000000 | 11999999 |

Total number of pulses in waveform = 22

Radar Type 6 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection | Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1 | 5290 | 0 | 16 | 5300 | 1 |
| 2 | 5291 | 1 | 17 | 5302 | 1 |
| 3 | 5292 | 1 | 18 | 5303 | 1 |
| 4 | 5293 | 1 | 19 | 5303 | 1 |
| 5 | 5294 | 1 | 20 | 5304 | 1 |
| 6 | 5295 | 1 | 21 | 5304 | 1 |
| 7 | 5296 | 1 | 22 | 5305 | 1 |
| 8 | 5297 | 1 | 23 | 5305 | 1 |
| 9 | 5298 | 1 | 24 | 5306 | 1 |
| 10 | 5299 | 1 | 25 | 5306 | 1 |
| 11 | 5300 | 1 | 26 | 5307 | 1 |
| 12 | 5300 | 1 | 27 | 5307 | 1 |
| 13 | 5301 | 1 | 28 | 5308 | 1 |
| 14 | 5301 | 1 | 29 | 5309 | 1 |
| 15 | 5302 | 1 | 30 | 5310 | 1 |
| Detection Percentage (%) | | | | | 96.7% |

| Radar waveform #1 | | | Radar waveform #2 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 3 | 5319 | 9 | 1 | 5308 | 3 |
| 4 | 5299 | 12 | 2 | 5310 | 6 |
| 21 | 5305 | 63 | 22 | 5293 | 66 |
| 24 | 5320 | 72 | 29 | 5271 | 87 |
| 29 | 5296 | 87 | 54 | 5261 | 162 |
| 31 | 5303 | 93 | 56 | 5265 | 168 |
| 38 | 5315 | 114 | 63 | 5267 | 189 |
| 48 | 5309 | 144 | 73 | 5272 | 219 |
| 59 | 5294 | 177 | 76 | 5280 | 228 |
| 75 | 5317 | 225 | 79 | 5315 | 237 |
| 85 | 5316 | 255 | 94 | 5298 | 282 |
| 91 | 5262 | 273 | 96 | 5263 | 288 |
| 96 | 5288 | 288 | 97 | 5274 | 291 |

| Radar waveform #3 | | | Radar waveform #4 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 9 | 5318 | 27 | 6 | 5305 | 18 |
| 10 | 5262 | 30 | 9 | 5278 | 27 |
| 11 | 5295 | 33 | 10 | 5317 | 30 |
| 13 | 5307 | 39 | 16 | 5306 | 48 |
| 20 | 5271 | 60 | 21 | 5269 | 63 |
| 28 | 5302 | 84 | 22 | 5277 | 66 |
| 34 | 5275 | 102 | 24 | 5298 | 72 |
| 40 | 5321 | 120 | 28 | 5311 | 84 |
| 53 | 5267 | 159 | 30 | 5272 | 90 |
| 56 | 5316 | 168 | 38 | 5293 | 114 |
| 62 | 5274 | 186 | 45 | 5271 | 135 |
| 80 | 5313 | 240 | 62 | 5296 | 186 |
| 86 | 5287 | 258 | 72 | 5275 | 216 |
| 89 | 5289 | 267 | -- | -- | -- |
| 93 | 5269 | 279 | -- | -- | -- |



| Radar waveform #5 | | | Radar waveform #6 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 6 | 5296 | 18 | 9 | 5290 | 27 |
| 9 | 5268 | 27 | 34 | 5268 | 102 |
| 28 | 5275 | 84 | 45 | 5265 | 135 |
| 29 | 5279 | 87 | 53 | 5305 | 159 |
| 39 | 5283 | 117 | 59 | 5275 | 177 |
| 45 | 5304 | 135 | 60 | 5301 | 180 |
| 51 | 5277 | 153 | 64 | 5318 | 192 |
| 57 | 5313 | 171 | 67 | 5303 | 201 |
| 58 | 5312 | 174 | 71 | 5286 | 213 |
| 59 | 5311 | 177 | 73 | 8595 | 219 |
| 75 | 5295 | 225 | 88 | 5319 | 264 |
| 76 | 5319 | 228 | 92 | 5298 | 276 |
| 77 | 5294 | 231 | 94 | 5278 | 282 |
| 82 | 5280 | 246 | 96 | 5324 | 288 |

| Radar waveform #7 | | | Radar waveform #8 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 3 | 5326 | 9 | 5 | 5284 | 15 |
| 15 | 5310 | 45 | 17 | 5317 | 51 |
| 31 | 5318 | 93 | 19 | 5312 | 57 |
| 35 | 5285 | 105 | 22 | 5266 | 66 |
| 44 | 5301 | 132 | 57 | 5294 | 171 |
| 48 | 5288 | 144 | 67 | 5323 | 201 |
| 50 | 5281 | 150 | 68 | 5269 | 204 |
| 64 | 5279 | 192 | 82 | 5270 | 246 |
| 71 | 5269 | 213 | 83 | 5311 | 249 |
| 81 | 5320 | 243 | 84 | 5288 | 252 |
| -- | -- | -- | 96 | 5273 | 288 |
| -- | -- | -- | 97 | 5304 | 291 |
| -- | -- | -- | 99 | 5281 | 297 |

| Radar waveform #9 | | | Radar waveform #10 | | |
|-------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 1 | 5288 | 3 | 1 | 5279 | 3 |
| 15 | 5318 | 45 | 26 | 5312 | 78 |
| 22 | 5317 | 66 | 31 | 5298 | 93 |
| 41 | 5284 | 123 | 48 | 5316 | 144 |
| 47 | 5278 | 141 | 60 | 5286 | 180 |
| 60 | 5295 | 180 | 70 | 5281 | 210 |
| 75 | 5325 | 225 | 74 | 5278 | 222 |
| 93 | 5269 | 279 | 86 | 5313 | 258 |
| 99 | 5273 | 297 | 88 | 5310 | 264 |
| -- | -- | -- | 91 | 5303 | 273 |
| -- | -- | -- | 97 | 5327 | 291 |
| -- | -- | -- | -- | -- | -- |

| Radar waveform #11 | | | Radar waveform #12 | | |
|--------------------|-----------------|------------------|--------------------|----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Frequency (MHz) | Hopping Number | Pulse Start (ms) |
| 12 | 5315 | 36 | 5 | 5297 | 15 |
| 16 | 5273 | 48 | 17 | 5313 | 51 |
| 23 | 5323 | 69 | 23 | 5306 | 69 |
| 31 | 5276 | 93 | 30 | 5299 | 90 |
| 51 | 5296 | 153 | 31 | 45296 | 93 |
| 60 | 5269 | 180 | 33 | 5294 | 99 |
| 61 | 5305 | 183 | 43 | 5298 | 129 |
| 67 | 5286 | 201 | 48 | 5318 | 144 |
| 68 | 5284 | 204 | 53 | 5324 | 159 |
| 83 | 5285 | 249 | 66 | 5319 | 198 |
| 88 | 5321 | 264 | 83 | 5323 | 249 |

| Radar waveform #13 | | | Radar waveform #14 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 2 | 5316 | 6 | 0 | 5322 | 0 |
| 12 | 5309 | 36 | 8 | 5320 | 24 |
| 29 | 5276 | 87 | 16 | 5273 | 48 |
| 42 | 5324 | 126 | 18 | 5272 | 54 |
| 51 | 5287 | 153 | 25 | 5310 | 75 |
| 53 | 5284 | 159 | 38 | 5296 | 114 |
| 58 | 5297 | 174 | 45 | 5270 | 135 |
| 60 | 5307 | 180 | 47 | 5299 | 141 |
| 67 | 5321 | 201 | 56 | 5326 | 168 |
| 79 | 5275 | 237 | 66 | 5287 | 198 |
| 83 | 5300 | 249 | 81 | 5302 | 243 |
| 84 | 5296 | 252 | 89 | 5329 | 267 |
| -- | -- | -- | 97 | 5304 | 291 |

| Radar waveform #15 | | | Radar waveform #16 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 3 | 5319 | 9 | 18 | 5285 | 54 |
| 5 | 5300 | 15 | 27 | 5362 | 81 |
| 6 | 5293 | 18 | 37 | 5273 | 111 |
| 17 | 5286 | 51 | 48 | 5279 | 144 |
| 58 | 5325 | 174 | 50 | 5270 | 150 |
| 66 | 5308 | 198 | 53 | 5308 | 159 |
| 68 | 5328 | 204 | 63 | 5330 | 189 |
| 70 | 5271 | 210 | 70 | 5309 | 210 |
| 77 | 5290 | 231 | 75 | 5302 | 225 |
| 80 | 5272 | 240 | 77 | 5288 | 231 |
| 91 | 5310 | 273 | 78 | 5312 | 234 |
| 96 | 5314 | 288 | 99 | 5296 | 297 |

| Radar waveform #17 | | | Radar waveform #18 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 0 | 5273 | 0 | 2 | 5297 | 6 |
| 9 | 7278 | 27 | 5 | 5330 | 15 |
| 26 | 5301 | 78 | 27 | 5289 | 81 |
| 35 | 5290 | 105 | 30 | 5315 | 90 |
| 37 | 5312 | 111 | 32 | 5324 | 96 |
| 44 | 5327 | 132 | 46 | 5292 | 138 |
| 48 | 5325 | 144 | 54 | 5319 | 162 |
| 60 | 5303 | 180 | 55 | 5286 | 165 |
| 74 | 5304 | 222 | 62 | 5321 | 186 |
| 77 | 5282 | 231 | 78 | 5323 | 234 |
| 82 | 5331 | 246 | 81 | 5274 | 243 |
| 98 | 8287 | 294 | 83 | 5331 | 249 |

| Radar waveform #19 | | | Radar waveform #20 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 16 | 5304 | 48 | 2 | 5272 | 6 |
| 23 | 5278 | 69 | 13 | 5273 | 39 |
| 27 | 5310 | 81 | 24 | 5331 | 72 |
| 38 | 5295 | 114 | 32 | 5319 | 96 |
| 47 | 5319 | 141 | 36 | 5274 | 108 |
| 48 | 5307 | 144 | 37 | 5289 | 111 |
| 49 | 5289 | 147 | 49 | 5324 | 147 |
| 57 | 5286 | 171 | 52 | 5318 | 156 |
| 69 | 5325 | 207 | 62 | 5330 | 186 |
| 80 | 5320 | 240 | 76 | 5313 | 228 |
| 99 | 5311 | 297 | 77 | 5279 | 231 |
| -- | -- | -- | 78 | 5314 | 234 |
| -- | -- | -- | 98 | 5281 | 294 |

| Radar waveform #21 | | | Radar waveform #22 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 2 | 5313 | 6 | 39 | 5291 | 117 |
| 6 | 5285 | 18 | 51 | 5332 | 153 |
| 8 | 5322 | 24 | 60 | 5304 | 180 |
| 28 | 5326 | 84 | 75 | 5278 | 225 |
| 35 | 5284 | 105 | | | |
| 40 | 5309 | 120 | | | |
| 44 | 5293 | 132 | | | |
| 45 | 5299 | 135 | | | |
| 52 | 5307 | 156 | -- | -- | -- |
| 55 | 5289 | 165 | | | |
| 60 | 5280 | 180 | | | |
| 68 | 5332 | 204 | | | |
| 84 | 5278 | 252 | | | |
| 89 | 5298 | 267 | | | |

| Radar waveform #23 | | | Radar waveform #24 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 4 | 5281 | 12 | 1 | 5301 | 3 |
| 7 | 5322 | 21 | 15 | 5330 | 45 |
| 13 | 5319 | 39 | 19 | 5293 | 57 |
| 16 | 5334 | 48 | 22 | 5282 | 66 |
| 34 | 5286 | 102 | 34 | 5313 | 102 |
| 39 | 5313 | 117 | 37 | 5295 | 111 |
| 41 | 5327 | 123 | 58 | 5327 | 174 |
| 54 | 5316 | 162 | 66 | 5329 | 198 |
| 80 | 5324 | 240 | 74 | 5293 | 222 |
| 93 | 5330 | 279 | -- | -- | -- |
| 95 | 5275 | 285 | -- | -- | -- |

| Radar waveform #25 | | | Radar waveform #26 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 4 | 5302 | 12 | 15 | 5303 | 45 |
| 9 | 5331 | 27 | 30 | 5329 | 90 |
| 10 | 5316 | 30 | 35 | 5276 | 105 |
| 15 | 5276 | 45 | 41 | 5284 | 123 |
| 20 | 5297 | 60 | 46 | 5308 | 138 |
| 41 | 5330 | 123 | 56 | 5317 | 168 |
| 44 | 5319 | 132 | 59 | 5304 | 177 |
| 47 | 5281 | 141 | 76 | 5305 | 228 |
| 61 | 5300 | 183 | 78 | 5277 | 234 |
| 68 | 5286 | 204 | 79 | 5306 | 237 |
| 78 | 5284 | 234 | 92 | 5325 | 276 |
| 82 | 5332 | 246 | 97 | 5311 | 291 |
| 90 | 5324 | 270 | -- | -- | -- |
| 94 | 5290 | 282 | -- | -- | -- |
| 96 | 5296 | 288 | -- | -- | -- |
| 98 | 5304 | 294 | -- | -- | -- |

| Radar waveform #27 | | | Radar waveform #28 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 18 | 5296 | 54 | 0 | 5325 | 0 |
| 22 | 5316 | 66 | 2 | 5334 | 6 |
| 38 | 5299 | 114 | 6 | 5305 | 18 |
| 42 | 5279 | 126 | 7 | 5319 | 21 |
| 49 | 5322 | 147 | 9 | 5329 | 27 |
| 68 | 5314 | 204 | 10 | 5296 | 30 |
| 85 | 5285 | 255 | 18 | 5281 | 54 |
| 86 | 5308 | 258 | 21 | 5297 | 63 |
| 87 | 5286 | 261 | 31 | 5317 | 93 |
| 89 | 5287 | 267 | 34 | 5304 | 102 |
| 98 | 5330 | 294 | 46 | 5287 | 138 |
| -- | -- | -- | 52 | 5302 | 156 |
| -- | -- | -- | 63 | 5292 | 189 |
| -- | -- | -- | 68 | 5333 | 204 |
| -- | -- | -- | 72 | 5320 | 216 |
| -- | -- | -- | 75 | 5278 | 225 |
| -- | -- | -- | 77 | 5310 | 231 |
| -- | -- | -- | 83 | 5301 | 249 |

| Radar waveform #29 | | | Radar waveform #30 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 1 | 5286 | 3 | 4 | 5286 | 12 |
| 4 | 5337 | 12 | 7 | 5327 | 21 |
| 5 | 5309 | 15 | 17 | 5306 | 51 |
| 12 | 5321 | 36 | 18 | 5283 | 54 |
| 15 | 5283 | 45 | 21 | 5280 | 63 |
| 21 | 5280 | 63 | 35 | 5307 | 105 |
| 31 | 5317 | 93 | 37 | 5329 | 111 |
| 32 | 5320 | 96 | 43 | 5339 | 129 |
| 36 | 5310 | 108 | 45 | 5321 | 135 |
| 37 | 5339 | 111 | 71 | 5229 | 213 |
| 54 | 5325 | 162 | 74 | 5300 | 222 |
| 58 | 5304 | 174 | 83 | 5326 | 249 |

| | | | | | |
|----|------|-----|----|------|-----|
| 94 | 5330 | 282 | 86 | 5297 | 258 |
| -- | -- | -- | 97 | 5288 | 291 |



Radar Statistical Performance for 802.11n-HT40

Radar Type 1 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5291 | 0 | 538 | 99 | 1 |
| 2 | 5293 | 1 | 618 | 86 | 1 |
| 3 | 5295 | 1 | 798 | 67 | 1 |
| 4 | 5297 | 1 | 658 | 81 | 1 |
| 5 | 5299 | 1 | 878 | 61 | 1 |
| 6 | 5301 | 1 | 758 | 70 | 1 |
| 7 | 5291 | 1 | 518 | 102 | 1 |
| 8 | 5303 | 1 | 898 | 59 | 1 |
| 9 | 5305 | 1 | 738 | 72 | 1 |
| 10 | 5306 | 1 | 718 | 74 | 1 |
| 11 | 5307 | 1 | 938 | 57 | 1 |
| 12 | 5308 | 1 | 678 | 78 | 1 |
| 13 | 5309 | 1 | 3066 | 18 | 1 |
| 14 | 5310 | 1 | 638 | 83 | 1 |
| 15 | 5311 | 1 | 858 | 62 | 1 |
| 16 | 5312 | 1 | 1909 | 28 | 1 |
| 17 | 5313 | 1 | 932 | 57 | 1 |
| 18 | 5314 | 1 | 2777 | 20 | 1 |
| 19 | 5315 | 1 | 2722 | 20 | 1 |
| 20 | 5317 | 1 | 2371 | 23 | 1 |
| 21 | 5319 | 1 | 1074 | 50 | 1 |
| 22 | 5320 | 1 | 2752 | 20 | 1 |
| 23 | 5321 | 1 | 2169 | 25 | 1 |
| 24 | 5322 | 1 | 1394 | 38 | 1 |
| 25 | 5323 | 1 | 2110 | 26 | 1 |
| 26 | 5324 | 1 | 2787 | 19 | 1 |
| 27 | 5325 | 1 | 3055 | 18 | 1 |
| 28 | 5327 | 1 | 1121 | 48 | 1 |
| 29 | 5329 | 1 | 2805 | 19 | 1 |
| 30 | 5330 | 1 | 760 | 70 | 1 |
| Detection Percentage (%) | | | | | 96.7% |

Radar Type 2 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5291 | 4.5 | 152 | 29 | 0 |
| 2 | 5293 | 2.1 | 166 | 25 | 1 |
| 3 | 5295 | 4.7 | 196 | 23 | 1 |
| 4 | 5297 | 1.1 | 169 | 28 | 1 |
| 5 | 5299 | 3.8 | 223 | 23 | 1 |
| 6 | 5301 | 1.6 | 214 | 28 | 1 |
| 7 | 5291 | 1.3 | 163 | 29 | 1 |
| 8 | 5303 | 4.5 | 192 | 26 | 1 |
| 9 | 5305 | 2.8 | 170 | 28 | 1 |
| 10 | 5306 | 1.5 | 185 | 29 | 1 |
| 11 | 5307 | 3.9 | 154 | 27 | 1 |
| 12 | 5308 | 1.4 | 219 | 26 | 1 |
| 13 | 5309 | 2.6 | 224 | 29 | 1 |
| 14 | 5310 | 2.2 | 198 | 27 | 1 |
| 15 | 5311 | 4.0 | 227 | 25 | 1 |
| 16 | 5312 | 3.6 | 181 | 23 | 1 |
| 17 | 5313 | 4.9 | 204 | 24 | 1 |
| 18 | 5314 | 1.1 | 202 | 25 | 1 |
| 19 | 5315 | 2.5 | 186 | 27 | 1 |
| 20 | 5317 | 3.3 | 157 | 24 | 1 |
| 21 | 5319 | 3.9 | 170 | 27 | 1 |
| 22 | 5320 | 5.0 | 202 | 24 | 1 |
| 23 | 5321 | 2.4 | 221 | 28 | 1 |
| 24 | 5322 | 1.7 | 209 | 29 | 1 |
| 25 | 5323 | 3.5 | 156 | 28 | 1 |
| 26 | 5324 | 1.8 | 163 | 23 | 1 |
| 27 | 5325 | 3.1 | 183 | 24 | 1 |
| 28 | 5327 | 1.1 | 182 | 23 | 1 |
| 29 | 5329 | 1.6 | 161 | 25 | 0 |
| 30 | 5330 | 3.2 | 195 | 25 | 0 |
| Detection Percentage (%) | | | | | 90% |

Radar Type 3 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5291 | 9.6 | 282 | 18 | 0 |
| 2 | 5293 | 7.0 | 445 | 16 | 1 |
| 3 | 5295 | 8.4 | 257 | 16 | 1 |
| 4 | 5297 | 9.3 | 395 | 17 | 1 |
| 5 | 5299 | 8.6 | 359 | 16 | 1 |
| 6 | 5301 | 6.9 | 482 | 17 | 1 |
| 7 | 5301 | 8.1 | 390 | 18 | 1 |
| 8 | 5303 | 7.8 | 362 | 16 | 1 |
| 9 | 5305 | 6.4 | 470 | 18 | 1 |
| 10 | 5306 | 9.5 | 475 | 18 | 1 |
| 11 | 5307 | 6.9 | 270 | 17 | 1 |
| 12 | 5308 | 9.4 | 339 | 18 | 1 |
| 13 | 5309 | 8.6 | 432 | 17 | 1 |
| 14 | 5310 | 6.4 | 386 | 17 | 1 |
| 15 | 5311 | 7.7 | 399 | 16 | 1 |
| 16 | 5312 | 8.6 | 473 | 18 | 1 |
| 17 | 5313 | 9.9 | 253 | 17 | 1 |
| 18 | 5314 | 7.0 | 464 | 18 | 1 |
| 19 | 5315 | 8.8 | 375 | 18 | 1 |
| 20 | 5317 | 8.5 | 263 | 17 | 1 |
| 21 | 5319 | 8.1 | 374 | 17 | 1 |
| 22 | 5320 | 7.1 | 350 | 18 | 1 |
| 23 | 5321 | 9.0 | 352 | 18 | 1 |
| 24 | 5322 | 8.4 | 325 | 16 | 1 |
| 25 | 5323 | 7.3 | 442 | 16 | 1 |
| 26 | 5324 | 9.3 | 371 | 16 | 1 |
| 27 | 5325 | 8.6 | 474 | 17 | 1 |
| 28 | 5327 | 7.1 | 451 | 16 | 1 |
| 29 | 5329 | 7.2 | 368 | 18 | 1 |
| 30 | 5330 | 6.0 | 264 | 18 | 0 |
| Detection Percentage (%) | | | | | 93.3% |

Radar Type 4 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5292 | 17.3 | 392 | 14 | 0 |
| 2 | 5293 | 18.1 | 470 | 15 | 1 |
| 3 | 5295 | 19.0 | 373 | 13 | 1 |
| 4 | 5297 | 18.1 | 479 | 13 | 1 |
| 5 | 5299 | 17.9 | 413 | 12 | 1 |
| 6 | 5301 | 15.1 | 403 | 14 | 1 |
| 7 | 5301 | 12.8 | 408 | 13 | 1 |
| 8 | 5303 | 13.2 | 379 | 13 | 1 |
| 9 | 5305 | 15.0 | 311 | 13 | 1 |
| 10 | 5306 | 19.7 | 328 | 14 | 1 |
| 11 | 5307 | 17.9 | 378 | 15 | 1 |
| 12 | 5308 | 18.9 | 263 | 12 | 1 |
| 13 | 5309 | 12.7 | 436 | 13 | 1 |
| 14 | 5310 | 11.7 | 371 | 12 | 1 |
| 15 | 5311 | 14.4 | 359 | 12 | 1 |
| 16 | 5312 | 17.5 | 272 | 12 | 1 |
| 17 | 5313 | 16.2 | 276 | 15 | 1 |
| 18 | 5314 | 15.8 | 487 | 15 | 1 |
| 19 | 5315 | 16.2 | 295 | 15 | 1 |
| 20 | 5317 | 14.8 | 461 | 12 | 1 |
| 21 | 5319 | 12.5 | 374 | 15 | 1 |
| 22 | 5320 | 18.9 | 455 | 12 | 1 |
| 23 | 5321 | 14.8 | 458 | 16 | 1 |
| 24 | 5322 | 12.3 | 321 | 15 | 1 |
| 25 | 5323 | 20.0 | 436 | 15 | 1 |
| 26 | 5324 | 13.5 | 284 | 13 | 1 |
| 27 | 5325 | 20.0 | 486 | 15 | 1 |
| 28 | 5327 | 11.8 | 323 | 15 | 1 |
| 29 | 5329 | 17.8 | 393 | 15 | 0 |
| 30 | 5330 | 15.3 | 461 | 14 | 0 |
| Detection Percentage (%) | | | | | 90% |

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

waveforms is as follows: $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (96.7\% + 90\% + 93.3\% + 90\%) / 4 = 92.5\% (>80\%)$



Radar Type 5 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection | Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1 | 5291 | 0 | 16 | 5312 | 1 |
| 2 | 5293 | 0 | 17 | 5313 | 1 |
| 3 | 5295 | 1 | 18 | 5314 | 1 |
| 4 | 5297 | 1 | 19 | 5315 | 1 |
| 5 | 5299 | 1 | 20 | 5317 | 1 |
| 6 | 5301 | 1 | 21 | 5319 | 1 |
| 7 | 5301 | 1 | 22 | 5320 | 1 |
| 8 | 5303 | 1 | 23 | 5321 | 1 |
| 9 | 5305 | 1 | 24 | 5322 | 1 |
| 10 | 5306 | 1 | 25 | 5323 | 1 |
| 11 | 5307 | 1 | 26 | 5324 | 1 |
| 12 | 5308 | 1 | 27 | 5325 | 1 |
| 13 | 5309 | 1 | 28 | 5327 | 1 |
| 14 | 5310 | 1 | 29 | 5329 | 0 |
| 15 | 5311 | 1 | 30 | 5330 | 0 |
| Detection Percentage (%) | | | | | 87.7% |

| Type 5 Radar Waveform_1 | | | | | | | | | | |
|---|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| Waveform Num = 1 | | | | | | | | | | |
| Num of Bursts = 8 | | | | | | | | | | |
| Burst Interval (us)= 1500000 | | | | | | | | | | |
| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
| 1 | 16078 | 1 | 16 | 95 | 1974 | 0 | 0 | 16078 | 0 | 1499999 |
| 2 | 1835250 | 2 | 6 | 50 | 1707 | 1172 | 0 | 1853302 | 1500000 | 2999999 |
| 3 | 2127517 | 1 | 5 | 80 | 1076 | 0 | 0 | 3983698 | 3000000 | 4499999 |
| 4 | 1046985 | 2 | 17 | 55 | 1005 | 1297 | 0 | 5031759 | 4500000 | 5999999 |
| 5 | 2345442 | 2 | 7 | 60 | 1230 | 1847 | 0 | 7379503 | 6000000 | 7499999 |
| 6 | 216804 | 2 | 16 | 100 | 1963 | 1703 | 0 | 7599384 | 7500000 | 8999999 |
| 7 | 1547612 | 2 | 13 | 70 | 1858 | 1333 | 0 | 9150662 | 9000000 | 10499999 |
| 8 | 1543164 | 3 | 7 | 90 | 1452 | 1369 | 1404 | 10697017 | 10500000 | 11999999 |
| Total number of pulses in waveform = 15 | | | | | | | | | | |
| ***** | | | | | | | | | | |



Type 5 Radar Waveform_2

Waveform Num = 2
Num of Bursts = 12
Burst Interval (us) = 1000000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 890361 | 1 | 18 | 85 | 1140 | 0 | 0 | 890361 | 0 | 999999 |
| 2 | 822733 | 2 | 5 | 80 | 1464 | 1519 | 0 | 1714234 | 1000000 | 1999999 |
| 3 | 321134 | 3 | 18 | 90 | 1026 | 1966 | 1347 | 2038351 | 2000000 | 2999999 |
| 4 | 1156386 | 1 | 8 | 50 | 1091 | 0 | 0 | 3199076 | 3000000 | 3999999 |
| 5 | 1628435 | 3 | 5 | 50 | 1427 | 1925 | 1735 | 4828602 | 4000000 | 4999999 |
| 6 | 636451 | 2 | 18 | 80 | 1931 | 1934 | 0 | 5470140 | 5000000 | 5999999 |
| 7 | 781551 | 2 | 11 | 80 | 1189 | 1226 | 0 | 6255556 | 6000000 | 6999999 |
| 8 | 1272774 | 2 | 6 | 95 | 1735 | 1007 | 0 | 7530745 | 7000000 | 7999999 |
| 9 | 509484 | 1 | 9 | 80 | 1247 | 0 | 0 | 8042971 | 8000000 | 8999999 |
| 10 | 1349633 | 2 | 18 | 60 | 1572 | 1578 | 0 | 9393851 | 9000000 | 9999999 |
| 11 | 1287522 | 2 | 10 | 60 | 1859 | 1828 | 0 | 10684523 | 10000000 | 10999999 |
| 12 | 1258424 | 1 | 18 | 55 | 1139 | 0 | 0 | 11946634 | 11000000 | 11999999 |

Total number of pulses in waveform = 22

Type 5 Radar Waveform_3

Waveform Num = 3
Num of Bursts = 13
Burst Interval (us) = 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 292381 | 1 | 7 | 60 | 1545 | 0 | 0 | 292381 | 0 | 923076 |
| 2 | 1373941 | 3 | 11 | 100 | 1905 | 1082 | 1055 | 1667867 | 923077 | 1846153 |
| 3 | 303862 | 3 | 20 | 75 | 1324 | 2000 | 1343 | 1975771 | 1846154 | 2769230 |
| 4 | 1524307 | 2 | 19 | 60 | 1222 | 1377 | 0 | 3504745 | 2769231 | 3692307 |
| 5 | 752577 | 2 | 6 | 55 | 1547 | 1567 | 0 | 4259921 | 3692308 | 4615384 |
| 6 | 638592 | 1 | 5 | 50 | 1650 | 0 | 0 | 4901627 | 4615385 | 5538461 |
| 7 | 1041106 | 1 | 5 | 55 | 1444 | 0 | 0 | 5944383 | 5538462 | 6461538 |
| 8 | 621055 | 1 | 5 | 85 | 1925 | 0 | 0 | 6566882 | 6461539 | 7384615 |
| 9 | 871474 | 3 | 13 | 55 | 1916 | 1558 | 1789 | 7440281 | 7384616 | 8307692 |
| 10 | 1420264 | 1 | 15 | 65 | 1208 | 0 | 0 | 8865808 | 8307693 | 9230769 |
| 11 | 991653 | 1 | 9 | 90 | 1538 | 0 | 0 | 9858669 | 9230770 | 10153846 |
| 12 | 1006484 | 1 | 8 | 50 | 1902 | 0 | 0 | 10866691 | 10153847 | 11076923 |
| 13 | 881981 | 1 | 8 | 85 | 1470 | 0 | 0 | 11750574 | 11076924 | 12000000 |

Total number of pulses in waveform = 21

Type 5 Radar Waveform_4

Waveform Num = 4
Num of Bursts = 13
Burst Interval (us) = 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 685737 | 2 | 14 | 70 | 1230 | 1218 | 0 | 685737 | 0 | 923076 |
| 2 | 630224 | 1 | 17 | 70 | 1915 | 0 | 0 | 1318409 | 923077 | 1846153 |
| 3 | 813603 | 3 | 10 | 55 | 1159 | 1925 | 1707 | 2133927 | 1846154 | 2769230 |
| 4 | 903632 | 1 | 16 | 95 | 1460 | 0 | 0 | 3042350 | 2769231 | 3692307 |
| 5 | 1246667 | 2 | 12 | 70 | 1087 | 1501 | 0 | 4290377 | 3692308 | 4615384 |
| 6 | 1217951 | 1 | 18 | 75 | 1670 | 0 | 0 | 5510916 | 4615385 | 5538461 |
| 7 | 683459 | 2 | 13 | 85 | 1305 | 1633 | 0 | 6196045 | 5538462 | 6461538 |
| 8 | 366105 | 1 | 15 | 95 | 1259 | 0 | 0 | 6565088 | 6461539 | 7384615 |
| 9 | 1007047 | 2 | 10 | 55 | 1661 | 1361 | 0 | 7573394 | 7384616 | 8307692 |
| 10 | 1316135 | 2 | 20 | 80 | 1143 | 1878 | 0 | 8892551 | 8307693 | 9230769 |
| 11 | 1187457 | 3 | 6 | 50 | 1605 | 1738 | 1198 | 10083029 | 9230770 | 10153846 |
| 12 | 954185 | 2 | 13 | 60 | 1893 | 1188 | 0 | 11041755 | 10153847 | 11076923 |
| 13 | 293640 | 1 | 6 | 50 | 1521 | 0 | 0 | 11338476 | 11076924 | 12000000 |

Total number of pulses in waveform = 23



Type 5 Radar Waveform_5

```
Waveform Num = 5
Num of Bursts = 19
Burst Interval (us) = 631579
```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 257605 | 3 | 16 | 75 | 1183 | 1359 | 1770 | 257605 | 0 | 631578 |
| 2 | 720373 | 3 | 18 | 70 | 1125 | 1648 | 1613 | 982290 | 631579 | 1263157 |
| 3 | 779685 | 3 | 10 | 85 | 1676 | 1513 | 1785 | 1766361 | 1263158 | 1894736 |
| 4 | 577670 | 3 | 19 | 75 | 1160 | 1543 | 1805 | 2349005 | 1894737 | 2526315 |
| 5 | 327144 | 1 | 9 | 80 | 1608 | 0 | 0 | 2680657 | 2526316 | 3157894 |
| 6 | 733608 | 2 | 13 | 70 | 1952 | 1046 | 0 | 3415873 | 3157895 | 3789473 |
| 7 | 476023 | 1 | 17 | 60 | 1049 | 0 | 0 | 3894894 | 3789474 | 4421052 |
| 8 | 1087117 | 1 | 12 | 65 | 1741 | 0 | 0 | 4983060 | 4421053 | 5052631 |
| 9 | 452678 | 1 | 8 | 50 | 1888 | 0 | 0 | 5437479 | 5052632 | 5684210 |
| 10 | 605306 | 2 | 6 | 70 | 1545 | 1661 | 0 | 6044673 | 5684211 | 6315789 |
| 11 | 537013 | 1 | 12 | 100 | 1183 | 0 | 0 | 6584892 | 6315790 | 6947368 |
| 12 | 602222 | 1 | 12 | 100 | 1942 | 0 | 0 | 7188297 | 6947369 | 7578947 |
| 13 | 885772 | 2 | 18 | 95 | 1836 | 1689 | 0 | 8076011 | 7578948 | 8210526 |
| 14 | 496561 | 3 | 18 | 80 | 1593 | 1869 | 1768 | 8576087 | 8210527 | 8842105 |
| 15 | 478964 | 2 | 16 | 80 | 1294 | 1898 | 0 | 9060281 | 8842106 | 9473684 |
| 16 | 836331 | 2 | 11 | 100 | 1212 | 1527 | 0 | 9899804 | 9473685 | 10105263 |
| 17 | 710114 | 3 | 12 | 75 | 1880 | 1539 | 1986 | 10612657 | 10105264 | 10736842 |
| 18 | 308313 | 2 | 16 | 60 | 1828 | 1449 | 0 | 10926375 | 10736843 | 11368421 |
| 19 | 478085 | 3 | 15 | 90 | 1210 | 1800 | 1625 | 11407737 | 11368422 | 12000000 |

Total number of pulses in waveform = 39

Type 5 Radar Waveform_6

```
Waveform Num = 6
Num of Bursts = 19
Burst Interval (us) = 631579
```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 465680 | 3 | 20 | 65 | 1503 | 1815 | 1404 | 465680 | 0 | 631578 |
| 2 | 209274 | 2 | 18 | 90 | 1500 | 1061 | 0 | 679676 | 631579 | 1263157 |
| 3 | 967364 | 2 | 19 | 95 | 1824 | 1037 | 0 | 1649591 | 1263158 | 1894736 |
| 4 | 616775 | 1 | 18 | 65 | 1177 | 0 | 0 | 2269227 | 1894737 | 2526315 |
| 5 | 761493 | 2 | 19 | 55 | 1934 | 1362 | 0 | 3031897 | 2526316 | 3157894 |
| 6 | 173586 | 1 | 15 | 55 | 1802 | 0 | 0 | 3208769 | 3157895 | 3789473 |
| 7 | 725234 | 2 | 15 | 60 | 1783 | 1392 | 0 | 3935805 | 3789474 | 4421052 |
| 8 | 645021 | 1 | 17 | 80 | 1132 | 0 | 0 | 4584001 | 4421053 | 5052631 |
| 9 | 574584 | 1 | 5 | 1796 | 0 | 0 | 0 | 5159717 | 5052632 | 5684210 |
| 10 | 577664 | 1 | 17 | 50 | 1110 | 0 | 0 | 5739177 | 5684211 | 6315789 |
| 11 | 1165674 | 1 | 14 | 60 | 1166 | 0 | 0 | 6905961 | 6315790 | 6947368 |
| 12 | 527612 | 1 | 10 | 100 | 1221 | 0 | 0 | 7434739 | 6947369 | 7578947 |
| 13 | 317091 | 2 | 13 | 90 | 1823 | 1960 | 0 | 7753051 | 7578948 | 8210526 |
| 14 | 790203 | 1 | 14 | 60 | 1067 | 0 | 0 | 8547037 | 8210527 | 8842105 |
| 15 | 759378 | 1 | 8 | 80 | 1378 | 0 | 0 | 9307502 | 8842106 | 9473684 |
| 16 | 673829 | 2 | 5 | 75 | 1815 | 1383 | 0 | 9982709 | 9473685 | 10105263 |
| 17 | 714830 | 1 | 18 | 95 | 1008 | 0 | 0 | 10700737 | 10105264 | 10736842 |
| 18 | 543303 | 2 | 5 | 75 | 1642 | 1946 | 0 | 11245048 | 10736843 | 11368421 |
| 19 | 206583 | 3 | 6 | 80 | 1680 | 1783 | 1814 | 11455219 | 11368422 | 12000000 |

Total number of pulses in waveform = 30

Type 5 Radar Waveform_7

```
Waveform Num = 7
Num of Bursts = 19
Burst Interval (us) = 631579
```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 665378 | 1 | 9 | 75 | 1453 | 0 | 0 | 665378 | 0 | 631578 |
| 2 | 387664 | 3 | 17 | 75 | 1166 | 1364 | 1666 | 954495 | 631579 | 1263157 |
| 3 | 682301 | 1 | 20 | 90 | 1080 | 0 | 0 | 1640892 | 1263158 | 1894736 |
| 4 | 328638 | 3 | 19 | 85 | 1966 | 1632 | 1522 | 1970610 | 1894737 | 2526315 |
| 5 | 819347 | 3 | 8 | 70 | 1401 | 1117 | 1503 | 2795077 | 2526316 | 3157894 |
| 6 | 883653 | 2 | 16 | 85 | 1320 | 1860 | 0 | 3682751 | 3157895 | 3789473 |
| 7 | 314759 | 2 | 6 | 65 | 1401 | 1218 | 0 | 4000690 | 3789474 | 4421052 |
| 8 | 1039175 | 1 | 6 | 75 | 1022 | 0 | 0 | 5042484 | 4421053 | 5052631 |
| 9 | 73320 | 2 | 7 | 70 | 1229 | 1025 | 0 | 5116826 | 5052632 | 5684210 |
| 10 | 581809 | 1 | 5 | 65 | 1032 | 0 | 0 | 5700889 | 5684211 | 6315789 |
| 11 | 950389 | 3 | 16 | 100 | 1312 | 1608 | 1176 | 6552310 | 6315790 | 6947368 |
| 12 | 820202 | 3 | 7 | 65 | 1929 | 1676 | 1534 | 7476608 | 6947369 | 7578947 |
| 13 | 133264 | 3 | 12 | 50 | 1884 | 1368 | 1346 | 7615011 | 7578948 | 8210526 |
| 14 | 1030499 | 1 | 13 | 55 | 1349 | 0 | 0 | 8650108 | 8210527 | 8842105 |
| 15 | 393732 | 3 | 17 | 60 | 1506 | 1456 | 1961 | 9045189 | 8842106 | 9473684 |
| 16 | 589740 | 3 | 7 | 70 | 1432 | 1207 | 1937 | 9639852 | 9473685 | 10105263 |
| 17 | 976593 | 3 | 12 | 75 | 1974 | 1869 | 1154 | 10621021 | 10105264 | 10736842 |
| 18 | 260511 | 3 | 8 | 90 | 1194 | 1102 | 1078 | 10886529 | 10736843 | 11368421 |
| 19 | 743315 | 3 | 20 | 65 | 1197 | 1819 | 1859 | 11633218 | 11368422 | 12000000 |

Total number of pulses in waveform = 44



Type 5 Radar Waveform_8

Waveform Num = 8
Num of Bursts = 8
Burst Interval (us)= 1500000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 128758 | 3 | 13 | 70 | 1181 | 1107 | 1232 | 128758 | 0 | 1499999 |
| 2 | 2328195 | 1 | 7 | 90 | 1093 | 0 | 0 | 2460473 | 1500000 | 2999999 |
| 3 | 859559 | 2 | 12 | 80 | 1550 | 1849 | 0 | 3321125 | 3000000 | 4499999 |
| 4 | 1318366 | 1 | 18 | 60 | 1162 | 0 | 0 | 4642890 | 4500000 | 5999999 |
| 5 | 1799917 | 2 | 15 | 80 | 1616 | 1246 | 0 | 6443969 | 6000000 | 7499999 |
| 6 | 2530067 | 1 | 8 | 80 | 1595 | 0 | 0 | 8976698 | 7500000 | 8999999 |
| 7 | 1136508 | 3 | 20 | 90 | 1467 | 1044 | 1153 | 10115001 | 9000000 | 10499999 |
| 8 | 614771 | 3 | 13 | 70 | 1775 | 1438 | 1338 | 10733436 | 10500000 | 11999999 |

Total number of pulses in waveform = 16

Type 5 Radar Waveform_9

Waveform Num = 9
Num of Bursts = 16
Burst Interval (us)= 750000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 718319 | 1 | 8 | 80 | 1597 | 0 | 0 | 718319 | 0 | 749999 |
| 2 | 271230 | 1 | 7 | 70 | 1942 | 0 | 0 | 991146 | 750000 | 1499999 |
| 3 | 1077880 | 2 | 14 | 60 | 1150 | 1909 | 0 | 2070968 | 1500000 | 2249999 |
| 4 | 185172 | 2 | 10 | 95 | 1567 | 1388 | 0 | 2259199 | 2250000 | 2999999 |
| 5 | 888122 | 1 | 14 | 90 | 1950 | 0 | 0 | 3150276 | 3000000 | 3749999 |
| 6 | 873768 | 2 | 17 | 50 | 1684 | 1121 | 0 | 4025994 | 3750000 | 4499999 |
| 7 | 985928 | 3 | 17 | 65 | 1843 | 1701 | 1846 | 5014727 | 4500000 | 5249999 |
| 8 | 410896 | 1 | 12 | 50 | 1688 | 0 | 0 | 5431013 | 5250000 | 5999999 |
| 9 | 648268 | 1 | 7 | 100 | 1035 | 0 | 0 | 6080969 | 6000000 | 6749999 |
| 10 | 1168706 | 2 | 10 | 80 | 1470 | 1195 | 0 | 7250710 | 6750000 | 7499999 |
| 11 | 338410 | 3 | 17 | 65 | 1140 | 1003 | 1663 | 7591785 | 7500000 | 8249999 |
| 12 | 1152203 | 3 | 20 | 80 | 1204 | 1564 | 1284 | 8747794 | 8250000 | 8999999 |
| 13 | 669099 | 1 | 15 | 65 | 1064 | 0 | 0 | 9420945 | 9000000 | 9749999 |
| 14 | 1032436 | 2 | 17 | 55 | 1700 | 1502 | 0 | 10454445 | 9750000 | 10499999 |
| 15 | 709280 | 1 | 17 | 100 | 1622 | 0 | 0 | 11166927 | 10500000 | 11249999 |
| 16 | 411657 | 3 | 20 | 95 | 1715 | 1473 | 1051 | 11580206 | 11250000 | 11999999 |

Total number of pulses in waveform = 29

Type 5 Radar Waveform_10

Waveform Num = 10
Num of Bursts = 14
Burst Interval (us)= 857143

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 327769 | 3 | 7 | 60 | 1312 | 1368 | 1802 | 327769 | 0 | 857142 |
| 2 | 1263699 | 3 | 15 | 100 | 1358 | 1055 | 1325 | 1595850 | 857143 | 1714285 |
| 3 | 523412 | 3 | 18 | 50 | 1407 | 1010 | 1468 | 2123000 | 1714286 | 2571428 |
| 4 | 1003706 | 3 | 17 | 50 | 1264 | 1342 | 1326 | 3130591 | 2571429 | 3428571 |
| 5 | 1076733 | 1 | 10 | 90 | 1010 | 0 | 0 | 4211256 | 3428572 | 4285714 |
| 6 | 705127 | 3 | 6 | 90 | 1870 | 1383 | 1375 | 4917393 | 4285715 | 5142857 |
| 7 | 620400 | 3 | 13 | 55 | 1669 | 1268 | 1687 | 5542421 | 5142858 | 6000000 |
| 8 | 1157409 | 3 | 8 | 85 | 1178 | 1097 | 1185 | 6704454 | 6000001 | 6857143 |
| 9 | 886608 | 3 | 16 | 75 | 1949 | 1775 | 1507 | 7594522 | 6857144 | 7714286 |
| 10 | 371642 | 2 | 18 | 95 | 1366 | 1444 | 0 | 7971395 | 7714287 | 8571429 |
| 11 | 1217909 | 2 | 10 | 70 | 1393 | 1727 | 0 | 9192114 | 8571430 | 9428572 |
| 12 | 1023431 | 1 | 8 | 95 | 1823 | 0 | 0 | 10218665 | 9428573 | 10285715 |
| 13 | 649677 | 1 | 9 | 95 | 1569 | 0 | 0 | 10870165 | 10285716 | 11142858 |
| 14 | 335536 | 3 | 11 | 80 | 1196 | 1934 | 1265 | 11207270 | 11142859 | 12000001 |

Total number of pulses in waveform = 34



Type 5 Radar Waveform_11

Waveform Num = 11
Num of Bursts = 11
Burst Interval (us)= 1090909

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 195285 | 3 | 12 | 60 | 1005 | 1860 | 1046 | 195285 | 0 | 1090908 |
| 2 | 1797710 | 3 | 19 | 60 | 1120 | 1851 | 1877 | 1996906 | 1090909 | 2181817 |
| 3 | 1142044 | 3 | 14 | 75 | 1324 | 1134 | 1413 | 3143798 | 2181818 | 3272726 |
| 4 | 1055950 | 1 | 18 | 60 | 1996 | 0 | 0 | 4203619 | 3272727 | 4363635 |
| 5 | 908993 | 2 | 17 | 50 | 1236 | 1845 | 0 | 5114608 | 4363636 | 5454544 |
| 6 | 883727 | 2 | 10 | 90 | 1650 | 1984 | 0 | 6001416 | 5454545 | 6545453 |
| 7 | 1173987 | 1 | 20 | 65 | 1171 | 0 | 0 | 7179037 | 6545454 | 7636362 |
| 8 | 941177 | 2 | 9 | 90 | 1417 | 1019 | 0 | 8121385 | 7636363 | 8727271 |
| 9 | 1264936 | 1 | 20 | 90 | 1911 | 0 | 0 | 9388757 | 8727272 | 9818180 |
| 10 | 898961 | 2 | 17 | 95 | 1980 | 1396 | 0 | 10289629 | 9818181 | 10909089 |
| 11 | 707263 | 3 | 12 | 100 | 1360 | 1841 | 1715 | 11000268 | 10909090 | 11999998 |

Total number of pulses in waveform = 23

Type 5 Radar Waveform_12

Waveform Num = 12
Num of Bursts = 17
Burst Interval (us)= 705882

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 294300 | 1 | 16 | 75 | 1461 | 0 | 0 | 294300 | 0 | 705881 |
| 2 | 552190 | 2 | 18 | 95 | 1741 | 1929 | 0 | 847951 | 705882 | 1411763 |
| 3 | 1153719 | 1 | 19 | 95 | 1590 | 0 | 0 | 2005340 | 1411764 | 2117645 |
| 4 | 614765 | 3 | 16 | 55 | 1929 | 1701 | 1695 | 2621695 | 2117646 | 2823527 |
| 5 | 832204 | 3 | 12 | 70 | 1785 | 1154 | 1077 | 3459224 | 2823528 | 3529409 |
| 6 | 298597 | 2 | 10 | 60 | 1805 | 1427 | 0 | 3761837 | 3529410 | 4235291 |
| 7 | 959989 | 3 | 18 | 75 | 1719 | 1759 | 1485 | 4725068 | 4235292 | 4941173 |
| 8 | 564000 | 1 | 10 | 100 | 1590 | 0 | 0 | 5294021 | 4941174 | 5647055 |
| 9 | 381012 | 1 | 12 | 50 | 1500 | 0 | 0 | 5676623 | 5647056 | 6352937 |
| 10 | 879264 | 2 | 17 | 50 | 1452 | 1680 | 0 | 6557387 | 6352938 | 7058819 |
| 11 | 774337 | 3 | 18 | 85 | 1826 | 1841 | 1841 | 7334856 | 7058820 | 7764701 |
| 12 | 672480 | 1 | 13 | 65 | 1436 | 0 | 0 | 8012844 | 7764702 | 8470583 |
| 13 | 1152373 | 2 | 14 | 90 | 1159 | 1441 | 0 | 9166653 | 8470584 | 9176465 |
| 14 | 511446 | 3 | 15 | 55 | 1391 | 1486 | 1507 | 9680699 | 9176466 | 9882347 |
| 15 | 303438 | 3 | 15 | 60 | 1596 | 1539 | 1907 | 9988521 | 9882348 | 10588229 |
| 16 | 1013839 | 2 | 10 | 80 | 1821 | 1389 | 0 | 11007402 | 10588230 | 11294111 |
| 17 | 932519 | 3 | 5 | 85 | 1301 | 1313 | 1606 | 11943131 | 11294112 | 11999993 |

Total number of pulses in waveform = 36

Type 5 Radar Waveform_13

Waveform Num = 13
Num of Bursts = 15
Burst Interval (us)= 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 9364 | 1 | 11 | 70 | 1958 | 0 | 0 | 9364 | 0 | 799999 |
| 2 | 1567819 | 1 | 16 | 90 | 1442 | 0 | 0 | 1579141 | 800000 | 1599999 |
| 3 | 126202 | 1 | 20 | 80 | 1641 | 0 | 0 | 1706785 | 1600000 | 2399999 |
| 4 | 869549 | 1 | 17 | 65 | 1303 | 0 | 0 | 2577975 | 2400000 | 3199999 |
| 5 | 1209958 | 3 | 13 | 75 | 1737 | 1352 | 1203 | 3789136 | 3200000 | 3699999 |
| 6 | 877404 | 1 | 18 | 75 | 1732 | 0 | 0 | 4670832 | 4000000 | 4799999 |
| 7 | 257540 | 3 | 15 | 100 | 1802 | 1746 | 1001 | 4930104 | 4800000 | 5599999 |
| 8 | 1312115 | 1 | 14 | 80 | 1629 | 0 | 0 | 6246768 | 5600000 | 6399999 |
| 9 | 728805 | 3 | 13 | 90 | 1663 | 1553 | 1154 | 6977202 | 6400000 | 7199999 |
| 10 | 636556 | 1 | 9 | 50 | 1842 | 0 | 0 | 7618128 | 7200000 | 7999999 |
| 11 | 785681 | 1 | 12 | 80 | 1805 | 0 | 0 | 8405651 | 8000000 | 8799999 |
| 12 | 923381 | 3 | 11 | 65 | 1154 | 1965 | 1454 | 9330837 | 8800000 | 9599999 |
| 13 | 522750 | 3 | 15 | 90 | 1521 | 1917 | 1760 | 9858160 | 9600000 | 10399999 |
| 14 | 871943 | 3 | 15 | 60 | 1019 | 1517 | 1228 | 10735301 | 10400000 | 11199999 |
| 15 | 844226 | 1 | 20 | 75 | 1965 | 0 | 0 | 11583291 | 11200000 | 11999999 |

Total number of pulses in waveform = 27



Type 5 Radar Waveform_14

Waveform Num = 14
Num of Bursts = 10
Burst Interval (us) = 1200000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 222814 | 3 | 7 | 60 | 1885 | 1191 | 1078 | 222814 | 0 | 1199999 |
| 2 | 1141228 | 3 | 18 | 70 | 1580 | 1876 | 1278 | 1368196 | 1200000 | 2399999 |
| 3 | 2028615 | 2 | 18 | 50 | 1066 | 1689 | 0 | 3401545 | 2400000 | 3599999 |
| 4 | 899093 | 1 | 12 | 65 | 1833 | 0 | 0 | 4303393 | 3600000 | 4799999 |
| 5 | 885122 | 3 | 12 | 70 | 1055 | 1751 | 1872 | 5190398 | 4800000 | 5999999 |
| 6 | 1508786 | 1 | 18 | 70 | 1655 | 0 | 0 | 6703862 | 6000000 | 7199999 |
| 7 | 1256945 | 3 | 12 | 60 | 1331 | 1609 | 1991 | 7962462 | 7200000 | 8399999 |
| 8 | 1488597 | 1 | 19 | 70 | 1721 | 0 | 0 | 9455990 | 8400000 | 9599999 |
| 9 | 796173 | 1 | 8 | 95 | 1343 | 0 | 0 | 10253884 | 9600000 | 10799999 |
| 10 | 638686 | 1 | 17 | 80 | 1654 | 0 | 0 | 10893893 | 10800000 | 11999999 |

Total number of pulses in waveform = 19

Type 5 Radar Waveform_15

Waveform Num = 15
Num of Bursts = 14
Burst Interval (us) = 857143

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 461513 | 2 | 5 | 80 | 1786 | 1054 | 0 | 461513 | 0 | 857142 |
| 2 | 1178158 | 2 | 10 | 85 | 1044 | 1917 | 0 | 1642511 | 857143 | 1714285 |
| 3 | 488275 | 3 | 16 | 75 | 1238 | 1662 | 1571 | 2133747 | 1714286 | 2571428 |
| 4 | 906697 | 1 | 8 | 75 | 1884 | 0 | 0 | 3044915 | 2571429 | 3428571 |
| 5 | 870465 | 3 | 10 | 80 | 1419 | 1889 | 1343 | 3917264 | 3428572 | 4285714 |
| 6 | 734095 | 2 | 10 | 85 | 1669 | 1426 | 0 | 4656010 | 4285715 | 5142857 |
| 7 | 558211 | 2 | 7 | 95 | 1186 | 1936 | 0 | 5217316 | 5142858 | 6000000 |
| 8 | 916970 | 3 | 12 | 85 | 1323 | 1316 | 1948 | 6137408 | 6000001 | 6857143 |
| 9 | 1476733 | 2 | 14 | 50 | 1215 | 1123 | 0 | 7618728 | 6857144 | 7714286 |
| 10 | 712916 | 3 | 11 | 95 | 1093 | 1099 | 1001 | 8333982 | 7714287 | 8571429 |
| 11 | 761975 | 3 | 5 | 60 | 1148 | 1137 | 1848 | 9099150 | 8571430 | 9428572 |
| 12 | 760501 | 3 | 9 | 80 | 1475 | 1564 | 1152 | 9863784 | 9428573 | 10285715 |
| 13 | 712128 | 1 | 20 | 50 | 1453 | 0 | 0 | 10580103 | 10285716 | 11142858 |
| 14 | 933279 | 3 | 17 | 85 | 1941 | 1510 | 1038 | 11514835 | 11142859 | 12000001 |

Total number of pulses in waveform = 33

Type 5 Radar Waveform_16

Waveform Num = 16
Num of Bursts = 20
Burst Interval (us) = 600000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 426872 | 3 | 5 | 85 | 1309 | 1914 | 1803 | 426872 | 0 | 599999 |
| 2 | 414655 | 1 | 11 | 60 | 1759 | 0 | 0 | 846553 | 600000 | 1199999 |
| 3 | 933032 | 3 | 18 | 80 | 1974 | 1400 | 1654 | 1781344 | 1200000 | 1799999 |
| 4 | 180174 | 3 | 15 | 95 | 1776 | 1495 | 1931 | 1966546 | 1800000 | 2399999 |
| 5 | 1008455 | 3 | 16 | 55 | 1963 | 1103 | 1913 | 2980203 | 2400000 | 2999999 |
| 6 | 604146 | 3 | 8 | 75 | 1076 | 1434 | 1467 | 3589328 | 3000000 | 3599999 |
| 7 | 255927 | 3 | 20 | 85 | 1598 | 1714 | 1902 | 3849232 | 3600000 | 4199999 |
| 8 | 564259 | 2 | 8 | 70 | 1110 | 1211 | 0 | 4418705 | 4200000 | 4799999 |
| 9 | 497829 | 3 | 15 | 50 | 1653 | 1891 | 1787 | 4918855 | 4800000 | 5399999 |
| 10 | 933815 | 3 | 16 | 75 | 1964 | 1041 | 1894 | 5858001 | 5400000 | 5999999 |
| 11 | 181790 | 3 | 20 | 50 | 1451 | 1359 | 1668 | 6044690 | 6000000 | 6599999 |
| 12 | 787376 | 2 | 5 | 55 | 1575 | 1603 | 0 | 6836544 | 6600000 | 7199999 |
| 13 | 729530 | 2 | 17 | 75 | 1285 | 1647 | 0 | 7569252 | 7200000 | 7799999 |
| 14 | 428199 | 1 | 17 | 50 | 1683 | 0 | 0 | 8000383 | 7800000 | 8399999 |
| 15 | 976056 | 3 | 11 | 50 | 1198 | 1397 | 1212 | 8978122 | 8400000 | 8999999 |
| 16 | 230986 | 3 | 5 | 65 | 1743 | 1576 | 1557 | 9212915 | 9000000 | 9599999 |
| 17 | 931424 | 1 | 18 | 75 | 1747 | 0 | 0 | 10149215 | 9600000 | 10199999 |
| 18 | 333824 | 1 | 17 | 80 | 1432 | 0 | 0 | 10484786 | 10200000 | 10799999 |
| 19 | 425455 | 3 | 7 | 95 | 1380 | 1023 | 1320 | 10911673 | 10800000 | 11399999 |
| 20 | 867864 | 3 | 9 | 75 | 1131 | 1086 | 1494 | 11783260 | 11400000 | 11999999 |

Total number of pulses in waveform = 49



Type 5 Radar Waveform_17

Waveform Num = 17
 Num of Bursts = 15
 Burst Interval (us)= 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 564876 | 1 | 17 | 85 | 1011 | 0 | 0 | 564876 | 0 | 799999 |
| 2 | 850874 | 2 | 12 | 75 | 1879 | 1074 | 0 | 1416761 | 800000 | 1599999 |
| 3 | 373456 | 1 | 17 | 60 | 1900 | 0 | 0 | 1793170 | 1600000 | 2399999 |
| 4 | 1251889 | 3 | 13 | 90 | 1330 | 1417 | 1219 | 3046959 | 2400000 | 3199999 |
| 5 | 258415 | 2 | 18 | 75 | 1297 | 1240 | 0 | 3309340 | 3200000 | 3999999 |
| 6 | 1197836 | 1 | 19 | 80 | 1897 | 0 | 0 | 4509713 | 4000000 | 4799999 |
| 7 | 855239 | 3 | 19 | 80 | 1726 | 1088 | 1249 | 5366849 | 4800000 | 5599999 |
| 8 | 344028 | 2 | 7 | 90 | 1120 | 1359 | 0 | 5714940 | 5600000 | 6399999 |
| 9 | 902558 | 3 | 19 | 85 | 1615 | 1181 | 1130 | 6619977 | 6400000 | 7199999 |
| 10 | 1117521 | 1 | 13 | 65 | 1066 | 0 | 0 | 7741424 | 7200000 | 7999999 |
| 11 | 681727 | 3 | 16 | 85 | 1563 | 1916 | 1945 | 8424217 | 8000000 | 8799999 |
| 12 | 1106095 | 3 | 16 | 55 | 1529 | 1713 | 1278 | 9535736 | 8800000 | 9599999 |
| 13 | 656710 | 3 | 12 | 95 | 1170 | 1593 | 1289 | 10196966 | 9600000 | 10399999 |
| 14 | 514039 | 2 | 9 | 70 | 1429 | 1907 | 0 | 10715057 | 10400000 | 11199999 |
| 15 | 562072 | 2 | 15 | 95 | 1631 | 1298 | 0 | 11280465 | 11200000 | 11999999 |

Total number of pulses in waveform = 32

Type 5 Radar Waveform_18

Waveform Num = 18
 Num of Bursts = 8
 Burst Interval (us)= 1500000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 1232314 | 2 | 10 | 75 | 1120 | 1954 | 0 | 1232314 | 0 | 1499999 |
| 2 | 1656592 | 2 | 5 | 70 | 1862 | 1386 | 0 | 2891980 | 1500000 | 2999999 |
| 3 | 728692 | 3 | 11 | 100 | 1530 | 1307 | 1773 | 3623920 | 3000000 | 4499999 |
| 4 | 894487 | 1 | 11 | 85 | 1075 | 0 | 0 | 4523017 | 4500000 | 5999999 |
| 5 | 1926886 | 3 | 8 | 90 | 1540 | 1828 | 1302 | 6450978 | 6000000 | 7499999 |
| 6 | 2468900 | 3 | 7 | 50 | 1270 | 1385 | 1703 | 8924548 | 7500000 | 8999999 |
| 7 | 1545162 | 1 | 5 | 70 | 1463 | 0 | 0 | 10474068 | 9000000 | 10499999 |
| 8 | 545279 | 3 | 12 | 95 | 1095 | 1850 | 1230 | 11020810 | 10500000 | 11999999 |

Total number of pulses in waveform = 18

Type 5 Radar Waveform_19

Waveform Num = 19
 Num of Bursts = 20
 Burst Interval (us)= 600000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 152232 | 3 | 7 | 65 | 1856 | 1864 | 1808 | 152232 | 0 | 599999 |
| 2 | 1028218 | 2 | 15 | 70 | 1553 | 1216 | 0 | 1185978 | 600000 | 1199999 |
| 3 | 46061 | 2 | 11 | 55 | 1858 | 1809 | 0 | 1294808 | 1200000 | 1799999 |
| 4 | 1138275 | 2 | 14 | 60 | 1361 | 1297 | 0 | 2376750 | 1800000 | 2399999 |
| 5 | 379363 | 2 | 14 | 85 | 1736 | 1694 | 0 | 2758771 | 2400000 | 2999999 |
| 6 | 678093 | 3 | 9 | 50 | 1998 | 1026 | 1619 | 3440294 | 3000000 | 3599999 |
| 7 | 198793 | 3 | 12 | 75 | 1806 | 1545 | 1045 | 3643730 | 3600000 | 4199999 |
| 8 | 898612 | 2 | 15 | 85 | 1276 | 1694 | 0 | 4546738 | 4200000 | 4799999 |
| 9 | 776729 | 1 | 6 | 50 | 1801 | 0 | 0 | 5326337 | 4800000 | 5399999 |
| 10 | 419658 | 2 | 19 | 100 | 1579 | 1234 | 0 | 5747796 | 5400000 | 5999999 |
| 11 | 435111 | 3 | 19 | 55 | 1668 | 1515 | 1968 | 6185720 | 6000000 | 6599999 |
| 12 | 733055 | 1 | 11 | 90 | 1359 | 0 | 0 | 6923926 | 6600000 | 7199999 |
| 13 | 512829 | 2 | 17 | 85 | 1956 | 1303 | 0 | 7438114 | 7200000 | 7799999 |
| 14 | 365921 | 2 | 14 | 90 | 1331 | 1950 | 0 | 7807294 | 7800000 | 8399999 |
| 15 | 1030276 | 1 | 15 | 90 | 1639 | 0 | 0 | 8840851 | 8400000 | 8999999 |
| 16 | 661834 | 2 | 8 | 60 | 1892 | 1272 | 0 | 9504324 | 9000000 | 9599999 |
| 17 | 171023 | 3 | 13 | 85 | 1850 | 1194 | 1073 | 9678511 | 9600000 | 10199999 |
| 18 | 805993 | 2 | 11 | 75 | 1446 | 1782 | 0 | 10488621 | 10200000 | 10799999 |
| 19 | 748589 | 2 | 18 | 80 | 1540 | 1245 | 0 | 11240438 | 10800000 | 11399999 |
| 20 | 161406 | 1 | 10 | 95 | 1165 | 0 | 0 | 11404629 | 11400000 | 11999999 |

Total number of pulses in waveform = 41



Type 5 Radar Waveform_20

```

Waveform Num = 20
Num of Bursts = 20
Burst Interval (us) = 600000
Burst # Off Time (us) # Pulses Chirp (MHz) PW (us) Pulse 1 Pri (us) Pulse 2 Pri (us) Pulse 3 Pri (us) Start Loc (us) Start Burst Interval (us) End Burst Interval (us)
1 393990 3 5 70 1353 1707 1399 445723 0 599999
2 537271 2 16 70 1786 1567 0 844172 600000 1199999
3 688317 3 17 75 1177 1929 1088 1384796 1200000 1799999
4 647777 3 15 100 1590 1269 1145 2077307 1800000 2399999
5 763167 2 6 60 1558 1592 0 2729088 2400000 2999999
6 552396 3 16 75 1828 1248 1563 3495405 3000000 3599999
7 737006 2 7 90 1728 1335 0 4052440 3600000 4199999
8 537960 2 12 70 1057 1281 0 4792509 4200000 4799999
9 250439 3 12 80 1933 1118 1966 5332807 4800000 5399999
10 547276 2 5 65 1601 1567 0 5688263 5400000 5999999
11 495637 2 5 50 1100 1896 0 6138707 6000000 6599999
12 665964 3 14 75 1122 1200 1575 6637340 6600000 7199999
13 543911 2 15 55 1965 1388 0 7307201 7200000 7799999
14 1076079 3 10 55 1998 1949 7854465 7800000 8399999
15 582560 2 11 75 1679 1687 0 8935839 8400000 8999999
16 475267 1 7 60 1679 0 0 9521765 9000000 9599999
17 731204 1 14 75 1603 0 0 9998701 9600000 10199999
18 222959 1 9 60 1202 0 0 10731508 10200000 10799999
19 602800 3 15 65 1156 1601 1806 10955669 10800000 11399999
20 547276 2 13 55 1960 1828 0 11563032 11400000 11999999
Total number of pulses in waveform = 45
*****

```

Type 5 Radar Waveform_21

```

Waveform Num = 21
Num of Bursts = 20
Burst Interval (us) = 600000
Burst # Off Time (us) # Pulses Chirp (MHz) PW (us) Pulse 1 Pri (us) Pulse 2 Pri (us) Pulse 3 Pri (us) Start Loc (us) Start Burst Interval (us) End Burst Interval (us)
1 320573 2 6 95 1783 1102 0 320573 0 599999
2 805897 1 13 55 1965 0 0 1129355 600000 1199999
3 590878 1 10 100 1202 0 0 1722198 1200000 1799999
4 572766 3 11 60 1545 1636 1470 2296166 1800000 2399999
5 612494 2 12 60 1724 1396 0 2913311 2400000 2999999
6 247560 3 10 75 1623 1327 1558 3163991 3000000 3599999
7 823719 2 8 85 1300 1181 0 3992218 3600000 4199999
8 330288 1 17 75 1715 0 0 4324987 4200000 4799999
9 1021305 2 10 55 1052 1978 0 5348007 4800000 5399999
10 564602 3 17 100 1248 1006 1358 5915639 5400000 5999999
11 260710 2 18 90 1071 1333 0 6179961 6000000 6599999
12 557693 1 19 95 1687 0 0 6740058 6600000 7199999
13 767574 1 20 70 1316 0 0 7509319 7200000 7799999
14 413826 3 8 70 1064 1973 1528 7924461 7800000 8399999
15 1035839 2 20 55 1391 1840 0 8964865 8400000 8999999
16 38060 1 19 95 1477 0 0 9006156 9000000 9599999
17 1013381 2 5 100 1794 1786 0 10021014 9600000 10199999
18 355468 3 7 100 1875 1929 1995 10380052 10200000 10799999
19 840530 1 8 85 1948 0 0 11226381 10800000 11399999
20 624014 1 10 70 1335 0 0 11852343 11400000 11999999
Total number of pulses in waveform = 37
*****

```

Type 5 Radar Waveform_22

```

Waveform Num = 22
Num of Bursts = 16
Burst Interval (us) = 750000
Burst # Off Time (us) # Pulses Chirp (MHz) PW (us) Pulse 1 Pri (us) Pulse 2 Pri (us) Pulse 3 Pri (us) Start Loc (us) Start Burst Interval (us) End Burst Interval (us)
1 555276 3 19 55 1600 1815 1780 555276 0 749999
2 228765 1 20 80 1376 0 0 789236 750000 1499999
3 894061 2 12 70 1305 1805 0 1684673 1500000 2249999
4 603997 3 13 75 1628 1868 1836 2291780 2250000 2999999
5 1167741 2 16 65 1386 1193 0 3464853 3000000 3749999
6 378799 3 12 85 1543 1168 1738 3846231 3750000 4499999
7 1018974 2 12 100 1486 1846 0 4869654 4500000 5249999
8 543827 2 18 65 1700 1216 0 5416813 5250000 5999999
9 602892 1 7 95 1663 0 0 6022621 6000000 6749999
10 909949 2 10 70 1604 1741 0 6934233 6750000 7499999
11 1200235 2 13 60 1031 1227 0 8137813 7500000 8249999
12 624577 1 9 95 1047 0 0 8764648 8250000 8999999
13 286673 1 7 60 1550 0 0 9052368 9000000 9749999
14 881386 1 12 85 1029 0 0 9935304 9750000 10499999
15 696915 3 15 85 1594 1756 1817 10633248 10500000 11249999
16 1033265 3 5 85 1848 1671 1598 11671680 11250000 11999999
Total number of pulses in waveform = 32
*****

```



Type 5 Radar Waveform_23

Waveform Num = 23
Num of Bursts = 9
Burst Interval (us)= 1333333

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 1070519 | 1 | 13 | 100 | 1723 | 0 | 0 | 1070519 | 0 | 1333332 |
| 2 | 659700 | 2 | 19 | 90 | 1915 | 1735 | 0 | 1731942 | 1333333 | 2666665 |
| 3 | 1500246 | 3 | 14 | 65 | 1021 | 1395 | 1253 | 3235838 | 2666666 | 3999998 |
| 4 | 1612704 | 2 | 7 | 80 | 1671 | 1533 | 0 | 4852211 | 3999999 | 5333331 |
| 5 | 1519804 | 3 | 8 | 85 | 1324 | 1690 | 1200 | 6375219 | 5333332 | 6666664 |
| 6 | 1290946 | 3 | 13 | 75 | 1579 | 1338 | 1827 | 7670379 | 6666665 | 7999997 |
| 7 | 746006 | 3 | 16 | 65 | 1274 | 1285 | 1948 | 8421129 | 7999998 | 9333330 |
| 8 | 2090114 | 3 | 11 | 85 | 1375 | 1172 | 1031 | 10515750 | 9333331 | 10666663 |
| 9 | 637294 | 2 | 5 | 65 | 1342 | 1092 | 0 | 11156622 | 10666664 | 11999996 |

Total number of pulses in waveform = 22

Type 5 Radar Waveform_24

Waveform Num = 24
Num of Bursts = 17
Burst Interval (us)= 705882

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 74676 | 1 | 6 | 75 | 1692 | 0 | 0 | 74676 | 0 | 705881 |
| 2 | 984262 | 3 | 18 | 100 | 1558 | 1081 | 1242 | 1060630 | 705882 | 1411763 |
| 3 | 378445 | 2 | 17 | 65 | 1816 | 1031 | 0 | 1442956 | 1411764 | 2117645 |
| 4 | 1276417 | 3 | 13 | 90 | 1337 | 1506 | 1369 | 2722220 | 2117646 | 2823527 |
| 5 | 422308 | 2 | 13 | 60 | 1679 | 1405 | 0 | 3148740 | 2823528 | 3529409 |
| 6 | 650364 | 2 | 18 | 85 | 1107 | 1004 | 0 | 3802188 | 3529410 | 4235291 |
| 7 | 1026374 | 2 | 10 | 75 | 1872 | 1511 | 0 | 4830673 | 4235292 | 4941173 |
| 8 | 327430 | 1 | 7 | 55 | 1558 | 0 | 0 | 5161486 | 4941174 | 5647055 |
| 9 | 546546 | 1 | 11 | 95 | 1381 | 0 | 0 | 5709590 | 5647056 | 6352937 |
| 10 | 1231146 | 3 | 13 | 70 | 1295 | 1768 | 1490 | 6942117 | 6352938 | 7058819 |
| 11 | 480360 | 2 | 7 | 50 | 1926 | 1952 | 0 | 7427030 | 7058820 | 7764701 |
| 12 | 650397 | 2 | 8 | 65 | 1381 | 1760 | 0 | 8081305 | 7764702 | 8470583 |
| 13 | 1059541 | 1 | 12 | 55 | 1847 | 0 | 0 | 9143987 | 8470584 | 9176465 |
| 14 | 204019 | 3 | 15 | 65 | 1118 | 1897 | 1813 | 9349853 | 9176466 | 9882347 |
| 15 | 537187 | 2 | 6 | 90 | 1254 | 1461 | 0 | 9891868 | 9882348 | 10588229 |
| 16 | 1217580 | 2 | 12 | 75 | 1162 | 1289 | 0 | 11112163 | 10588230 | 11294111 |
| 17 | 826226 | 1 | 13 | 85 | 1558 | 0 | 0 | 11940840 | 11294112 | 11999993 |

Total number of pulses in waveform = 33

Type 5 Radar Waveform_25

Waveform Num = 25
Num of Bursts = 13
Burst Interval (us)= 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 746930 | 3 | 12 | 80 | 1146 | 1302 | 1557 | 746930 | 0 | 923076 |
| 2 | 346330 | 2 | 7 | 65 | 1041 | 1449 | 0 | 1097265 | 923077 | 1846153 |
| 3 | 1063214 | 1 | 14 | 60 | 1019 | 0 | 0 | 2162969 | 1846154 | 2769230 |
| 4 | 1075740 | 2 | 14 | 85 | 1557 | 1799 | 0 | 3239728 | 2769231 | 3692307 |
| 5 | 620870 | 3 | 18 | 60 | 1562 | 1170 | 1110 | 3863954 | 3692308 | 4615384 |
| 6 | 921289 | 3 | 14 | 80 | 1938 | 1312 | 1449 | 4789085 | 4615385 | 5538461 |
| 7 | 1459465 | 3 | 11 | 60 | 1922 | 1673 | 1237 | 6253249 | 5538462 | 6461538 |
| 8 | 613022 | 2 | 6 | 100 | 1190 | 1745 | 0 | 6871103 | 6461539 | 7384615 |
| 9 | 1139999 | 3 | 14 | 95 | 1285 | 1829 | 1466 | 8014037 | 7384616 | 8307692 |
| 10 | 1101558 | 3 | 12 | 50 | 1876 | 1111 | 1269 | 9120175 | 8307693 | 9230769 |
| 11 | 743990 | 3 | 11 | 65 | 1206 | 1242 | 1574 | 9868421 | 9230770 | 10153846 |
| 12 | 706623 | 3 | 15 | 60 | 1539 | 1078 | 1868 | 10579066 | 10153847 | 11076923 |
| 13 | 667102 | 1 | 20 | 80 | 1444 | 0 | 0 | 11250653 | 11076924 | 12000000 |

Total number of pulses in waveform = 32



Type 5 Radar Waveform_26

```

Waveform Num = 26
Num of Bursts = 20
Burst Interval (us)= 600000

```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 431524 | 3 | 7 | 95 | 1348 | 1895 | 1632 | 431524 | 0 | 599999 |
| 2 | 618699 | 1 | 10 | 60 | 1097 | 0 | 0 | 1055098 | 600000 | 1199999 |
| 3 | 415022 | 1 | 17 | 70 | 1201 | 0 | 0 | 1471217 | 1200000 | 1799999 |
| 4 | 910154 | 2 | 7 | 50 | 1618 | 1339 | 0 | 2382572 | 1800000 | 2399999 |
| 5 | 118703 | 2 | 10 | 65 | 1953 | 1783 | 0 | 2504232 | 2400000 | 2999999 |
| 6 | 893693 | 2 | 9 | 60 | 1753 | 1312 | 0 | 3401661 | 3000000 | 3599999 |
| 7 | 224606 | 1 | 20 | 50 | 1808 | 0 | 0 | 3629332 | 3600000 | 4199999 |
| 8 | 903448 | 2 | 7 | 55 | 1098 | 1531 | 0 | 4534588 | 4200000 | 4799999 |
| 9 | 474097 | 3 | 7 | 70 | 1056 | 1422 | 1965 | 5011314 | 4800000 | 5399999 |
| 10 | 916772 | 1 | 12 | 80 | 1581 | 0 | 0 | 5932529 | 5400000 | 5999999 |
| 11 | 213238 | 1 | 5 | 55 | 1546 | 0 | 0 | 6147348 | 6000000 | 6599999 |
| 12 | 787876 | 2 | 9 | 95 | 1580 | 1861 | 0 | 6936770 | 6600000 | 7199999 |
| 13 | 792383 | 1 | 12 | 65 | 1712 | 0 | 0 | 7732594 | 7200000 | 7799999 |
| 14 | 291260 | 1 | 5 | 149 | 0 | 0 | 0 | 8025566 | 7800000 | 8399999 |
| 15 | 700354 | 2 | 14 | 60 | 1587 | 1518 | 0 | 8727369 | 8400000 | 8999999 |
| 16 | 756981 | 1 | 14 | 60 | 1805 | 0 | 0 | 9487455 | 9000000 | 9599999 |
| 17 | 549602 | 3 | 5 | 100 | 1477 | 1696 | 1281 | 10038862 | 9600000 | 10199999 |
| 18 | 186296 | 3 | 7 | 95 | 1529 | 1171 | 1778 | 10229612 | 10200000 | 10799999 |
| 19 | 1062895 | 3 | 13 | 70 | 1044 | 1524 | 1096 | 11296985 | 10800000 | 11399999 |
| 20 | 439522 | 3 | 10 | 100 | 1167 | 1075 | 1980 | 11740161 | 11400000 | 11999999 |

Total number of pulses in waveform = 38

Type 5 Radar Waveform_27

```

Waveform Num = 27
Num of Bursts = 12
Burst Interval (us)= 1000000

```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 178075 | 1 | 15 | 50 | 1515 | 0 | 0 | 178075 | 0 | 999999 |
| 2 | 1004369 | 3 | 14 | 90 | 1468 | 1626 | 1917 | 1183959 | 1000000 | 1999999 |
| 3 | 1371656 | 2 | 11 | 90 | 1961 | 1331 | 0 | 2560626 | 2000000 | 2999999 |
| 4 | 1121494 | 1 | 14 | 90 | 1700 | 0 | 0 | 3685412 | 3000000 | 3999999 |
| 5 | 857770 | 2 | 15 | 95 | 1700 | 1193 | 0 | 4544882 | 4000000 | 4999999 |
| 6 | 657043 | 3 | 15 | 55 | 1119 | 1045 | 1033 | 5204818 | 5000000 | 5999999 |
| 7 | 1190944 | 3 | 17 | 60 | 1705 | 1542 | 1100 | 6398959 | 6000000 | 6999999 |
| 8 | 1565590 | 1 | 10 | 90 | 1228 | 0 | 0 | 7968896 | 7000000 | 7999999 |
| 9 | 859316 | 2 | 7 | 100 | 1700 | 1886 | 0 | 8829440 | 8000000 | 8999999 |
| 10 | 738694 | 2 | 14 | 60 | 1945 | 1039 | 0 | 9571720 | 9000000 | 9999999 |
| 11 | 783307 | 1 | 13 | 50 | 1648 | 0 | 0 | 10358011 | 10000000 | 10999999 |
| 12 | 1586614 | 1 | 19 | 80 | 1802 | 0 | 0 | 11946273 | 11000000 | 11999999 |

Total number of pulses in waveform = 22

Type 5 Radar Waveform_28

```

Waveform Num = 28
Num of Bursts = 16
Burst Interval (us)= 750000

```

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 297056 | 3 | 16 | 90 | 1361 | 1890 | 1423 | 297056 | 0 | 749999 |
| 2 | 979066 | 3 | 11 | 70 | 1863 | 1242 | 1602 | 1280796 | 750000 | 1499999 |
| 3 | 319174 | 3 | 16 | 50 | 1949 | 1256 | 1813 | 1604677 | 1500000 | 2249999 |
| 4 | 1236387 | 3 | 14 | 50 | 1245 | 1568 | 1578 | 2846082 | 2250000 | 2999999 |
| 5 | 892603 | 3 | 11 | 85 | 1948 | 1248 | 1744 | 3743076 | 3000000 | 3749999 |
| 6 | 28298 | 1 | 7 | 65 | 1718 | 0 | 0 | 3776314 | 3750000 | 4499999 |
| 7 | 1211179 | 3 | 13 | 90 | 1769 | 1360 | 1425 | 4989211 | 4500000 | 5249999 |
| 8 | 984168 | 3 | 20 | 60 | 1692 | 1538 | 1865 | 5977923 | 5250000 | 5999999 |
| 9 | 536651 | 1 | 13 | 80 | 1658 | 0 | 0 | 6519669 | 6000000 | 6749999 |
| 10 | 357872 | 1 | 17 | 50 | 1774 | 0 | 0 | 6879199 | 6750000 | 7499999 |
| 11 | 971127 | 1 | 17 | 60 | 1100 | 0 | 0 | 7852100 | 7500000 | 8249999 |
| 12 | 655541 | 1 | 5 | 70 | 1912 | 0 | 0 | 8508741 | 8250000 | 8999999 |
| 13 | 1030067 | 3 | 17 | 100 | 1947 | 1383 | 1816 | 9540720 | 9000000 | 9749999 |
| 14 | 869917 | 1 | 18 | 70 | 1410 | 0 | 0 | 10415783 | 9750000 | 10499999 |
| 15 | 712452 | 3 | 15 | 75 | 1364 | 1208 | 1850 | 11129645 | 10500000 | 11249999 |
| 16 | 282742 | 3 | 6 | 50 | 1310 | 1844 | 1845 | 11416809 | 11250000 | 11999999 |

Total number of pulses in waveform = 36



Type 5 Radar Waveform_29

Waveform Num = 29
Num of Bursts = 15
Burst Interval (us) = 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 710808 | 3 | 17 | 85 | 1825 | 1560 | 1407 | 710808 | 0 | 799999 |
| 2 | 293023 | 3 | 16 | 100 | 1489 | 1953 | 1643 | 1008623 | 800000 | 1599999 |
| 3 | 1043552 | 2 | 18 | 60 | 1852 | 1888 | 0 | 2057260 | 1600000 | 2399999 |
| 4 | 396378 | 3 | 6 | 70 | 1532 | 1717 | 1350 | 2457378 | 2400000 | 3199999 |
| 5 | 1393872 | 2 | 8 | 50 | 1723 | 1780 | 0 | 3855849 | 3200000 | 3999999 |
| 6 | 340297 | 3 | 17 | 100 | 1627 | 1217 | 1435 | 4199649 | 4000000 | 4799999 |
| 7 | 1346514 | 1 | 15 | 95 | 1067 | 0 | 0 | 5550442 | 4800000 | 5599999 |
| 8 | 400534 | 2 | 16 | 90 | 1423 | 1147 | 0 | 5952043 | 5600000 | 6399999 |
| 9 | 961679 | 2 | 16 | 80 | 1645 | 1009 | 0 | 6916292 | 6400000 | 7199999 |
| 10 | 572622 | 2 | 20 | 55 | 1650 | 1944 | 0 | 7491568 | 7200000 | 7999999 |
| 11 | 565743 | 2 | 20 | 80 | 1160 | 1623 | 0 | 8060905 | 8000000 | 8799999 |
| 12 | 1219240 | 1 | 19 | 55 | 1455 | 0 | 0 | 9282928 | 8800000 | 9599999 |
| 13 | 803682 | 3 | 8 | 75 | 1176 | 1593 | 1176 | 10088065 | 9600000 | 10399999 |
| 14 | 434612 | 3 | 13 | 60 | 1947 | 1240 | 1416 | 10526622 | 10400000 | 11199999 |
| 15 | 1225234 | 3 | 7 | 70 | 1229 | 1763 | 1052 | 11756459 | 11200000 | 11999999 |

Total number of pulses in waveform = 35

Type 5 Radar Waveform_30

Waveform Num = 30
Num of Bursts = 19
Burst Interval (us) = 631579

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 185715 | 3 | 19 | 50 | 1383 | 1830 | 1770 | 185715 | 0 | 631578 |
| 2 | 758249 | 1 | 8 | 65 | 1930 | 0 | 0 | 948947 | 631579 | 1263157 |
| 3 | 769917 | 2 | 20 | 95 | 1405 | 1428 | 0 | 1720794 | 1263158 | 1894736 |
| 4 | 246765 | 3 | 14 | 80 | 1227 | 1380 | 1493 | 1970392 | 1894737 | 2526315 |
| 5 | 656963 | 1 | 18 | 65 | 1921 | 0 | 0 | 2631455 | 2526316 | 3157894 |
| 6 | 1121804 | 2 | 9 | 55 | 1005 | 1261 | 0 | 3755180 | 3157895 | 3789473 |
| 7 | 71188 | 1 | 11 | 55 | 1312 | 0 | 0 | 3828634 | 3789474 | 4421052 |
| 8 | 640835 | 1 | 13 | 80 | 1598 | 0 | 0 | 4470781 | 4421053 | 5052631 |
| 9 | 996419 | 1 | 11 | 55 | 1206 | 0 | 0 | 5468798 | 5052632 | 5684210 |
| 10 | 440641 | 3 | 18 | 75 | 1822 | 1132 | 1315 | 5910645 | 5684211 | 6315789 |
| 11 | 468620 | 2 | 5 | 90 | 1588 | 1486 | 0 | 6383534 | 6315790 | 6947368 |
| 12 | 1011000 | 3 | 5 | 100 | 1481 | 1945 | 1193 | 7397608 | 6947369 | 7578947 |
| 13 | 713487 | 3 | 11 | 100 | 1105 | 1963 | 1029 | 8115714 | 7578948 | 8210526 |
| 14 | 657112 | 2 | 16 | 65 | 1516 | 1170 | 0 | 8776923 | 8210527 | 8842105 |
| 15 | 194515 | 1 | 7 | 75 | 1288 | 0 | 0 | 8974124 | 8842106 | 9473684 |
| 16 | 994084 | 2 | 7 | 85 | 1261 | 1290 | 0 | 9969496 | 9473685 | 10105263 |
| 17 | 432948 | 3 | 5 | 95 | 1695 | 1010 | 1937 | 10404995 | 10105264 | 10736842 |
| 18 | 516913 | 1 | 5 | 85 | 1168 | 0 | 0 | 10926550 | 10736843 | 11368421 |
| 19 | 715724 | 3 | 14 | 80 | 1423 | 1804 | 1378 | 11643442 | 11368422 | 12000000 |

Total number of pulses in waveform = 38

Radar Type 6 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection | Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1 | 5292 | 0 | 16 | 5311 | 1 |
| 2 | 5293 | 1 | 17 | 5312 | 1 |
| 3 | 5294 | 1 | 18 | 5313 | 1 |
| 4 | 5296 | 1 | 19 | 5314 | 1 |
| 5 | 5297 | 1 | 20 | 5315 | 1 |
| 6 | 5298 | 1 | 21 | 5317 | 1 |
| 7 | 5299 | 1 | 22 | 5319 | 1 |
| 8 | 5300 | 1 | 23 | 5321 | 1 |
| 9 | 5303 | 1 | 24 | 5323 | 1 |
| 10 | 5305 | 1 | 25 | 5325 | 1 |
| 11 | 5306 | 1 | 26 | 5327 | 1 |
| 12 | 5307 | 1 | 27 | 5328 | 1 |
| 13 | 5308 | 1 | 28 | 5328 | 1 |
| 14 | 5309 | 1 | 29 | 5329 | 1 |
| 15 | 5310 | 1 | 30 | 5330 | 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 | 5305 | 6 | 8 | 5307 | 24 |
| 3 | 5263 | 9 | 11 | 5279 | 33 |
| 5 | 5277 | 15 | 16 | 5322 | 48 |
| 9 | 5290 | 27 | 21 | 5323 | 63 |
| 13 | 5288 | 39 | 23 | 5298 | 69 |
| 21 | 5302 | 63 | 38 | 5302 | 114 |
| 33 | 5278 | 99 | 57 | 5290 | 171 |
| 40 | 5292 | 120 | 65 | 5314 | 195 |
| 58 | 5269 | 174 | 68 | 5291 | 204 |
| 81 | 5276 | 243 | 69 | 5295 | 207 |
| -- | -- | -- | 82 | 5263 | 246 |
| -- | -- | -- | 93 | 5280 | 279 |

| Radar waveform #3 | | | Radar waveform #4 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 6 | 5267 | 18 | 16 | 5318 | 48 |
| 11 | 5293 | 33 | 22 | 5313 | 66 |
| 27 | 5314 | 81 | 24 | 5286 | 72 |
| 37 | 5301 | 111 | 38 | 5323 | 114 |
| 39 | 5302 | 117 | 47 | 5316 | 141 |
| 64 | 5284 | 192 | 50 | 5306 | 150 |
| 67 | 5268 | 201 | 54 | 5288 | 162 |
| 83 | 5320 | 249 | 56 | 5326 | 168 |
| 96 | 5299 | 288 | 73 | 5285 | 219 |
| -- | -- | -- | 74 | 5310 | 222 |
| -- | -- | -- | 78 | 5324 | 234 |

| Radar waveform #5 | | | Radar waveform #6 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 0 | 5276 | 0 | 0 | 5302 | 0 |
| 12 | 5322 | 36 | 8 | 5280 | 24 |
| 13 | 5289 | 39 | 12 | 5291 | 36 |
| 14 | 5292 | 42 | 21 | 5309 | 63 |
| 17 | 5290 | 51 | 25 | 5294 | 75 |
| 18 | 5293 | 54 | 39 | 5274 | 117 |
| 24 | 5319 | 72 | 44 | 5328 | 132 |
| 27 | 5277 | 81 | 48 | 5279 | 144 |
| 36 | 5318 | 108 | 49 | 5318 | 147 |
| 41 | 5273 | 123 | 50 | 5331 | 150 |
| 75 | 5325 | 225 | 55 | 5322 | 165 |
| -- | -- | -- | 91 | 5293 | 273 |
| -- | -- | -- | 93 | 5320 | 279 |
| -- | -- | -- | 99 | 5316 | 297 |

| Radar waveform #7 | | | Radar waveform #8 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 11 | 5282 | 33 | 6 | 5321 | 18 |
| 23 | 5294 | 69 | 35 | 5298 | 105 |
| 32 | 5273 | 96 | 40 | 5290 | 120 |
| 39 | 5323 | 117 | 41 | 5315 | 123 |
| 47 | 5298 | 141 | 42 | 5307 | 126 |
| 53 | 5278 | 159 | 51 | 5303 | 153 |
| 62 | 5289 | 186 | 65 | 5276 | 195 |
| 68 | 5281 | 204 | 68 | 5282 | 204 |
| 69 | 5316 | 207 | 70 | 5295 | 210 |
| 70 | 5292 | 210 | 75 | 5333 | 225 |
| 76 | 5321 | 228 | 79 | 5302 | 237 |
| 79 | 5300 | 237 | 83 | 5323 | 249 |
| 80 | 5295 | 240 | -- | -- | -- |
| 83 | 5312 | 249 | -- | -- | -- |
| 87 | 5331 | 261 | -- | -- | -- |
| 88 | 5275 | 264 | -- | -- | -- |
| 89 | 5283 | 267 | -- | -- | -- |
| 93 | 5318 | 279 | -- | -- | -- |
| 97 | 5277 | 291 | -- | -- | -- |



| Radar waveform #9 | | | Radar waveform #10 | | |
|-------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 9 | 5328 | 36 | 3 | 5331 | 9 |
| 15 | 5309 | 60 | 9 | 5324 | 27 |
| 29 | 5308 | 116 | 18 | 5302 | 54 |
| 38 | 5295 | 152 | 31 | 5335 | 93 |
| 41 | 5323 | 164 | 48 | 5283 | 144 |
| 42 | 5316 | 168 | 49 | 5312 | 147 |
| 44 | 5288 | 176 | 50 | 5226 | 150 |
| 72 | 5310 | 288 | 52 | 5310 | 156 |
| 88 | 5287 | 352 | 72 | 5278 | 216 |
| 95 | 5335 | 380 | 92 | 5298 | 276 |
| 96 | 5314 | 384 | 93 | 5308 | 279 |

| Radar waveform #11 | | | Radar waveform #12 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 3 | 5317 | 9 | 3 | 5289 | 9 |
| 13 | 5290 | 39 | 9 | 5297 | 27 |
| 17 | 5313 | 51 | 16 | 5300 | 48 |
| 18 | 5330 | 54 | 17 | 5335 | 51 |
| 43 | 5311 | 129 | 24 | 5312 | 72 |
| 47 | 5280 | 141 | 37 | 5320 | 111 |
| 48 | 5303 | 144 | 51 | 5287 | 153 |
| 52 | 5298 | 156 | 53 | 5290 | 159 |
| 55 | 5321 | 165 | 55 | 5319 | 165 |
| 56 | 5318 | 168 | 65 | 5321 | 195 |
| 60 | 5289 | 180 | 68 | 5286 | 204 |
| 61 | 5277 | 183 | 70 | 5332 | 210 |
| 67 | 5294 | 201 | 77 | 5325 | 231 |
| 68 | 5281 | 204 | 88 | 5296 | 264 |
| 70 | 5324 | 210 | -- | -- | -- |
| 80 | 5312 | 240 | -- | -- | -- |
| 89 | 5325 | 267 | -- | -- | -- |

| Radar waveform #13 | | | Radar waveform #14 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 0 | 5319 | 0 | 22 | 5297 | 66 |
| 6 | 5297 | 18 | 34 | 5313 | 102 |
| 10 | 5321 | 30 | 50 | 5332 | 150 |
| 12 | 5289 | 36 | 59 | 5305 | 177 |
| 17 | 5315 | 51 | 63 | 5323 | 189 |
| 20 | 5305 | 60 | 69 | 5285 | 207 |
| 30 | 5291 | 90 | 76 | 5299 | 228 |
| 37 | 5318 | 111 | 78 | 5340 | 234 |
| 63 | 5304 | 189 | 83 | 5321 | 249 |
| 67 | 5316 | 201 | 90 | 5281 | 270 |
| 73 | 5299 | 219 | 94 | 5309 | 282 |
| 82 | 5332 | 246 | 96 | 5334 | 288 |
| 93 | 5335 | 279 | 99 | 5301 | 297 |
| 95 | 5289 | 285 | -- | -- | -- |

| Radar waveform #15 | | | Radar waveform #16 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 8 | 5287 | 24 | 1 | 5331 | 3 |
| 11 | 5282 | 33 | 7 | 5319 | 21 |
| 18 | 5295 | 54 | 8 | 5301 | 24 |
| 19 | 5338 | 57 | 17 | 5292 | 51 |
| 25 | 5296 | 75 | 18 | 5311 | 54 |
| 29 | 5290 | 87 | 22 | 5304 | 66 |
| 30 | 5332 | 90 | 39 | 5330 | 117 |
| 37 | 5302 | 111 | 64 | 5320 | 192 |
| 40 | 5301 | 120 | 74 | 5286 | 222 |
| 49 | 5316 | 147 | 83 | 5323 | 249 |
| 50 | 5305 | 150 | 87 | 5299 | 261 |
| 57 | 5303 | 171 | 91 | 5288 | 273 |
| 77 | 5341 | 231 | 97 | 5341 | 291 |
| -- | -- | -- | 99 | 5287 | 297 |

| Radar waveform #17 | | | Radar waveform #18 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 3 | 5283 | 9 | 11 | 5310 | 33 |
| 4 | 5305 | 12 | 12 | 5294 | 36 |
| 11 | 5334 | 33 | 32 | 5323 | 96 |
| 14 | 5309 | 42 | 37 | 5327 | 111 |
| 24 | 5322 | 72 | 41 | 5321 | 123 |
| 25 | 5323 | 75 | 45 | 5306 | 135 |
| 28 | 5315 | 84 | 72 | 5319 | 216 |
| 32 | 5299 | 96 | 75 | 5305 | 225 |
| 35 | 5335 | 105 | 76 | 5322 | 228 |
| 44 | 5291 | 132 | 80 | 5339 | 240 |
| 48 | 5310 | 144 | 84 | 5330 | 252 |
| 64 | 5316 | 192 | 94 | 5291 | 282 |
| 70 | 5284 | 210 | 98 | 5344 | 294 |
| 82 | 5306 | 246 | -- | -- | -- |
| 84 | 5317 | 252 | -- | -- | -- |
| 88 | 5303 | 264 | -- | -- | -- |
| 91 | 5307 | 273 | -- | -- | -- |
| 95 | 5336 | 285 | -- | -- | -- |
| 99 | 5287 | 297 | -- | -- | -- |

| Radar waveform #19 | | | Radar waveform #20 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 9 | 5312 | 27 | 3 | 5296 | 9 |
| 17 | 5333 | 51 | 56 | 5324 | 168 |
| 32 | 5324 | 96 | 72 | 5300 | 216 |
| 39 | 5310 | 117 | 79 | 5327 | 237 |
| 50 | 5307 | 150 | 84 | 5343 | 252 |
| 62 | 5305 | 186 | 89 | 5303 | 267 |
| 73 | 5328 | 219 | 91 | 5297 | 273 |
| 91 | 5336 | 273 | -- | -- | -- |

| Radar waveform #21 | | | Radar waveform #22 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 3 | 5333 | 9 | 14 | 5329 | 42 |
| 15 | 5342 | 45 | 15 | 5300 | 45 |
| 22 | 5337 | 66 | 23 | 5296 | 69 |
| 32 | 5327 | 96 | 28 | 5333 | 84 |
| 34 | 5321 | 102 | 35 | 5313 | 105 |
| 42 | 5325 | 126 | 42 | 5349 | 126 |
| 55 | 5291 | 165 | 49 | 5343 | 147 |
| 66 | 5305 | 198 | 54 | 5324 | 162 |
| 71 | 5343 | 213 | 59 | 5339 | 177 |
| 80 | 5307 | 240 | 88 | 5293 | 264 |
| 94 | 5302 | 282 | -- | -- | -- |
| 95 | 5298 | 285 | -- | -- | -- |
| 97 | 5309 | 291 | -- | -- | -- |
| 99 | 5349 | 297 | -- | -- | -- |

| Radar waveform #23 | | | Radar waveform #24 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 5 | 5319 | 15 | 4 | 5323 | 12 |
| 9 | 5309 | 27 | 17 | 5345 | 51 |
| 1 | 5348 | 3 | 23 | 5326 | 69 |
| 36 | 5310 | 108 | 26 | 5303 | 78 |
| 43 | 5350 | 129 | 27 | 5327 | 81 |
| 45 | 5336 | 135 | 53 | 5346 | 159 |
| 53 | 5315 | 159 | 62 | 5348 | 186 |
| 61 | 5313 | 183 | 67 | 5298 | 201 |
| 66 | 5304 | 198 | 82 | 5307 | 246 |
| 67 | 5308 | 201 | 83 | 5312 | 249 |
| 71 | 5329 | 213 | 89 | 5300 | 267 |
| 77 | 5302 | 231 | 92 | 5343 | 276 |
| 80 | 5324 | 240 | -- | -- | -- |
| 83 | 5323 | 249 | -- | -- | -- |
| 86 | 5341 | 258 | -- | -- | -- |
| 88 | 5347 | 264 | -- | -- | -- |
| 93 | 5337 | 279 | -- | -- | -- |

| Radar waveform #25 | | | Radar waveform #26 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 3 | 5296 | 9 | 4 | 5338 | 12 |
| 37 | 5333 | 111 | 17 | 5307 | 51 |
| 39 | 5325 | 117 | 21 | 5353 | 63 |
| 43 | 5338 | 129 | 30 | 5301 | 90 |
| 52 | 5348 | 156 | 31 | 5348 | 93 |
| 53 | 5317 | 159 | 37 | 5326 | 111 |
| 60 | 5339 | 180 | 47 | 5294 | 141 |
| 64 | 5332 | 192 | 64 | 5309 | 192 |
| 83 | 5342 | 249 | 69 | 5316 | 207 |
| 97 | 5321 | 291 | 74 | 5349 | 222 |
| -- | -- | -- | 84 | 5328 | 252 |
| -- | -- | -- | 97 | 5304 | 291 |

| Radar waveform #27 | | | Radar waveform #28 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 7 | 5300 | 21 | 3 | 5330 | 9 |
| 28 | 5335 | 84 | 29 | 5321 | 87 |
| 38 | 5302 | 114 | 31 | 5326 | 93 |
| 52 | 5298 | 156 | 32 | 5346 | 96 |
| 82 | 5346 | 246 | 37 | 5333 | 111 |
| 94 | 5297 | 282 | 41 | 5347 | 123 |
| -- | -- | -- | 48 | 5320 | 144 |
| -- | -- | -- | 64 | 5331 | 192 |
| -- | -- | -- | 75 | 5339 | 225 |
| -- | -- | -- | 76 | 5324 | 228 |
| -- | -- | -- | 87 | 5335 | 261 |

| Radar waveform #29 | | | Radar waveform #30 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 7 | 5357 | 21 | 9 | 5313 | 27 |
| 18 | 5302 | 54 | 16 | 5349 | 48 |
| 22 | 5358 | 66 | 19 | 8323 | 57 |
| 32 | 5323 | 96 | 20 | 5316 | 60 |
| 42 | 5309 | 126 | 25 | 5332 | 75 |
| 62 | 5352 | 186 | 34 | 5338 | 102 |
| 66 | 5318 | 198 | 38 | 5317 | 114 |
| 74 | 5299 | 222 | 41 | 5360 | 123 |
| 75 | 5322 | 225 | 57 | 5351 | 171 |
| 85 | 5338 | 255 | 58 | 5320 | 174 |
| 89 | 5310 | 267 | 60 | 5347 | 180 |
| 91 | 5330 | 273 | 81 | 5337 | 243 |
| -- | -- | -- | 92 | 5319 | 276 |
| -- | -- | -- | 94 | 5318 | 282 |



Radar Statistical Performance for 802.11ac-VHT80

Radar Type 1 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5251 | 1 | 758 | 70 | 1 |
| 2 | 5254 | 1 | 638 | 83 | 1 |
| 3 | 5257 | 1 | 878 | 61 | 1 |
| 4 | 5260 | 1 | 3066 | 18 | 1 |
| 5 | 5263 | 1 | 858 | 62 | 1 |
| 6 | 5266 | 1 | 598 | 89 | 1 |
| 7 | 5269 | 1 | 918 | 58 | 1 |
| 8 | 5272 | 1 | 518 | 102 | 1 |
| 9 | 5275 | 1 | 558 | 95 | 1 |
| 10 | 5278 | 1 | 618 | 86 | 1 |
| 11 | 5281 | 1 | 538 | 99 | 1 |
| 12 | 5284 | 1 | 778 | 68 | 1 |
| 13 | 5287 | 1 | 658 | 81 | 1 |
| 14 | 5290 | 1 | 818 | 65 | 1 |
| 15 | 5293 | 1 | 718 | 74 | 1 |
| 16 | 5296 | 1 | 2215 | 24 | 1 |
| 17 | 5299 | 1 | 641 | 83 | 1 |
| 18 | 5302 | 1 | 1913 | 28 | 1 |
| 19 | 5305 | 1 | 3006 | 18 | 1 |
| 20 | 5308 | 1 | 2260 | 24 | 1 |
| 21 | 5311 | 1 | 2053 | 26 | 1 |
| 22 | 5314 | 1 | 715 | 74 | 1 |
| 23 | 5317 | 1 | 2352 | 23 | 1 |
| 24 | 5320 | 1 | 1030 | 52 | 1 |
| 25 | 5323 | 1 | 2407 | 22 | 1 |
| 26 | 5326 | 1 | 2405 | 22 | 1 |
| 27 | 5327 | 1 | 2801 | 19 | 1 |
| 28 | 5328 | 1 | 921 | 58 | 1 |
| 29 | 5329 | 1 | 1366 | 39 | 1 |
| 30 | 5330 | 1 | 2699 | 20 | 1 |
| Detection Percentage (%) | | | | | 100% |

Radar Type 2 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5251 | 4.9 | 197 | 29 | 1 |
| 2 | 5254 | 1.2 | 174 | 28 | 1 |
| 3 | 5257 | 2.5 | 207 | 28 | 1 |
| 4 | 5260 | 2.7 | 217 | 24 | 1 |
| 5 | 5263 | 2.5 | 190 | 26 | 1 |
| 6 | 5266 | 1.9 | 221 | 26 | 1 |
| 7 | 5267 | 3.0 | 192 | 27 | 1 |
| 8 | 5270 | 1.3 | 194 | 28 | 1 |
| 9 | 5273 | 3.8 | 205 | 24 | 1 |
| 10 | 5276 | 2.2 | 202 | 26 | 1 |
| 11 | 5279 | 2.0 | 197 | 28 | 1 |
| 12 | 5282 | 2.9 | 186 | 23 | 1 |
| 13 | 5285 | 2.9 | 215 | 28 | 1 |
| 14 | 5288 | 1.8 | 165 | 27 | 1 |
| 15 | 5291 | 2.9 | 216 | 25 | 1 |
| 16 | 5294 | 2.9 | 183 | 28 | 1 |
| 17 | 5297 | 3.8 | 216 | 26 | 1 |
| 18 | 5300 | 3.6 | 161 | 24 | 1 |
| 19 | 5303 | 2.4 | 197 | 28 | 1 |
| 20 | 5306 | 1.5 | 229 | 25 | 1 |
| 21 | 5309 | 3.8 | 155 | 23 | 1 |
| 22 | 5312 | 1.6 | 222 | 25 | 1 |
| 23 | 5315 | 2.9 | 195 | 26 | 1 |
| 24 | 5318 | 3.5 | 183 | 23 | 1 |
| 25 | 5321 | 4.5 | 179 | 26 | 1 |
| 26 | 5324 | 2.4 | 203 | 28 | 1 |
| 27 | 5327 | 4.0 | 180 | 29 | 1 |
| 28 | 5328 | 1.9 | 224 | 24 | 1 |
| 29 | 5329 | 1.5 | 192 | 29 | 1 |
| 30 | 5330 | 4.6 | 198 | 24 | 1 |
| Detection Percentage (%) | | | | | 100% |

Radar Type 3 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5251 | 8.0 | 377 | 18 | 0 |
| 2 | 5254 | 6.6 | 345 | 16 | 1 |
| 3 | 5257 | 9.7 | 393 | 18 | 1 |
| 4 | 5260 | 8.1 | 490 | 17 | 1 |
| 5 | 5263 | 6.9 | 388 | 18 | 1 |
| 6 | 5266 | 6.3 | 447 | 18 | 1 |
| 7 | 5267 | 9.0 | 322 | 17 | 1 |
| 8 | 5270 | 9.3 | 363 | 18 | 1 |
| 9 | 5273 | 8.1 | 307 | 18 | 1 |
| 10 | 5276 | 6.4 | 429 | 16 | 1 |
| 11 | 5279 | 8.0 | 339 | 18 | 1 |
| 12 | 5282 | 9.0 | 346 | 16 | 1 |
| 13 | 5285 | 6.3 | 444 | 18 | 1 |
| 14 | 5288 | 9.6 | 273 | 16 | 1 |
| 15 | 5291 | 6.5 | 449 | 17 | 1 |
| 16 | 5294 | 7.9 | 421 | 18 | 1 |
| 17 | 5297 | 9.0 | 306 | 17 | 1 |
| 18 | 5300 | 7.4 | 301 | 18 | 1 |
| 19 | 5303 | 7.2 | 442 | 18 | 1 |
| 20 | 5306 | 9.1 | 394 | 18 | 1 |
| 21 | 5309 | 8.2 | 315 | 16 | 1 |
| 22 | 5312 | 7.0 | 480 | 16 | 1 |
| 23 | 5315 | 6.5 | 493 | 18 | 1 |
| 24 | 5318 | 8.1 | 283 | 17 | 1 |
| 25 | 5321 | 9.7 | 459 | 16 | 1 |
| 26 | 5324 | 7.8 | 458 | 18 | 1 |
| 27 | 5327 | 6.2 | 284 | 16 | 1 |
| 28 | 5328 | 9.0 | 437 | 17 | 1 |
| 29 | 5329 | 7.8 | 292 | 17 | 1 |
| 30 | 5330 | 8.9 | 441 | 17 | 1 |
| Detection Percentage (%) | | | | | 96.7% |

Radar Type 4 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | Pulse Width (us) | PRI (us) | Pulses / Burst | 1=Detection 0=No Detection |
|--------------------------|---------------------|---------------------|----------|----------------|-------------------------------|
| 1 | 5251 | 17.8 | 436 | 12 | 0 |
| 2 | 5254 | 18.5 | 454 | 13 | 1 |
| 3 | 5257 | 11.0 | 284 | 12 | 1 |
| 4 | 5260 | 12.0 | 407 | 14 | 1 |
| 5 | 5263 | 19.7 | 449 | 14 | 1 |
| 6 | 5266 | 15.6 | 451 | 13 | 1 |
| 7 | 5267 | 11.9 | 272 | 13 | 1 |
| 8 | 5270 | 18.0 | 462 | 16 | 1 |
| 9 | 5273 | 18.9 | 313 | 12 | 1 |
| 10 | 5276 | 19.8 | 287 | 15 | 1 |
| 11 | 5279 | 17.9 | 489 | 13 | 1 |
| 12 | 5282 | 18.7 | 494 | 16 | 1 |
| 13 | 5285 | 13.3 | 473 | 14 | 1 |
| 14 | 5288 | 12.9 | 350 | 15 | 1 |
| 15 | 5291 | 14.6 | 351 | 14 | 1 |
| 16 | 5294 | 18.3 | 379 | 16 | 1 |
| 17 | 5297 | 19.9 | 302 | 15 | 1 |
| 18 | 5300 | 15.2 | 471 | 12 | 1 |
| 19 | 5303 | 15.4 | 450 | 14 | 1 |
| 20 | 5306 | 14.3 | 452 | 16 | 1 |
| 21 | 5309 | 18.4 | 490 | 14 | 1 |
| 22 | 5312 | 16.1 | 382 | 12 | 1 |
| 23 | 5315 | 11.6 | 309 | 13 | 1 |
| 24 | 5318 | 12.4 | 322 | 14 | 1 |
| 25 | 5321 | 15.0 | 471 | 12 | 1 |
| 26 | 5324 | 18.4 | 450 | 12 | 1 |
| 27 | 5327 | 11.4 | 378 | 13 | 1 |
| 28 | 5328 | 16.9 | 362 | 12 | 1 |
| 29 | 5329 | 13.8 | 279 | 12 | 1 |
| 30 | 5330 | 15.1 | 336 | 14 | 1 |
| Detection Percentage (%) | | | | | 96.7% |

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

waveforms is as follows: $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (96.7\% + 96.7\% + 100\% + 100\%) / 4 = 98.35\% (>80\%)$



Radar Type 5 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection | Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1 | 5251 | 0 | 16 | 5295 | 1 |
| 2 | 5253 | 0 | 17 | 5298 | 1 |
| 3 | 5256 | 1 | 18 | 5301 | 1 |
| 4 | 5259 | 1 | 19 | 5304 | 1 |
| 5 | 5262 | 1 | 20 | 5307 | 1 |
| 6 | 5265 | 1 | 21 | 5310 | 1 |
| 7 | 5268 | 1 | 22 | 5313 | 1 |
| 8 | 5271 | 1 | 23 | 5316 | 1 |
| 9 | 5274 | 1 | 24 | 5319 | 1 |
| 10 | 5277 | 1 | 25 | 5322 | 1 |
| 11 | 5280 | 1 | 26 | 5325 | 1 |
| 12 | 8283 | 1 | 27 | 5327 | 1 |
| 13 | 5286 | 1 | 28 | 5328 | 1 |
| 14 | 5289 | 1 | 29 | 5329 | 1 |
| 15 | 5292 | 1 | 30 | 5330 | 1 |
| Detection Percentage (%) | | | | | 93.3% |

| Type 5 Radar Waveform_1 | | | | | | | | | | |
|---|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| Waveform Num = 1 | | | | | | | | | | |
| Num of Bursts = 9 | | | | | | | | | | |
| Burst Interval (us)= 1333333 | | | | | | | | | | |
| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
| 1 | 22782 | 2 | 15 | 75 | 1926 | 1965 | 0 | 22782 | 0 | 1333332 |
| 2 | 2491345 | 3 | 11 | 90 | 1133 | 1900 | 1909 | 2518018 | 1333333 | 2666665 |
| 3 | 373556 | 1 | 11 | 65 | 1205 | 0 | 0 | 2896516 | 2666666 | 3999998 |
| 4 | 2360996 | 2 | 18 | 50 | 1591 | 1999 | 0 | 5258717 | 3999999 | 5333331 |
| 5 | 321508 | 2 | 15 | 100 | 1675 | 1895 | 0 | 5583815 | 5333332 | 6666664 |
| 6 | 2400471 | 3 | 17 | 60 | 1821 | 1472 | 1783 | 7987856 | 6666665 | 7999997 |
| 7 | 669062 | 1 | 19 | 85 | 1785 | 0 | 0 | 8661994 | 7999998 | 9333330 |
| 8 | 1134540 | 3 | 11 | 50 | 1610 | 1899 | 1876 | 9798319 | 9333331 | 10666663 |
| 9 | 989562 | 3 | 17 | 60 | 1664 | 1423 | 1058 | 10793266 | 10666664 | 11999996 |
| Total number of pulses in waveform = 20 | | | | | | | | | | |
| ***** | | | | | | | | | | |



Type 5 Radar Waveform_2

Waveform Num = 2
Num of Bursts = 12
Burst Interval (us)= 1000000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 403988 | 1 | 20 | 95 | 1056 | 0 | 0 | 403988 | 0 | 999999 |
| 2 | 1046499 | 1 | 15 | 80 | 1251 | 0 | 0 | 1451543 | 1000000 | 1999999 |
| 3 | 1148897 | 2 | 17 | 65 | 1948 | 1959 | 0 | 2601691 | 2000000 | 2999999 |
| 4 | 477635 | 1 | 7 | 65 | 1559 | 0 | 0 | 3083233 | 3000000 | 3999999 |
| 5 | 1219592 | 3 | 6 | 65 | 1046 | 1214 | 1732 | 4304384 | 4000000 | 4999999 |
| 6 | 776066 | 2 | 7 | 55 | 1082 | 1863 | 0 | 5084442 | 5000000 | 5999999 |
| 7 | 1798448 | 3 | 10 | 75 | 1270 | 1175 | 1891 | 6885835 | 6000000 | 6999999 |
| 8 | 517282 | 1 | 13 | 50 | 1024 | 0 | 0 | 7407453 | 7000000 | 7999999 |
| 9 | 1152857 | 1 | 6 | 85 | 1169 | 0 | 0 | 8561334 | 8000000 | 8999999 |
| 10 | 1117062 | 1 | 6 | 70 | 1460 | 0 | 0 | 9679565 | 9000000 | 9999999 |
| 11 | 715630 | 2 | 17 | 60 | 1860 | 1604 | 0 | 10396655 | 10000000 | 10999999 |
| 12 | 1337798 | 3 | 6 | 50 | 1095 | 1993 | 1316 | 11737917 | 11000000 | 11999999 |

Total number of pulses in waveform = 21

Type 5 Radar Waveform_3

Waveform Num = 3
Num of Bursts = 16
Burst Interval (us)= 750000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 536295 | 2 | 17 | 75 | 1270 | 1080 | 0 | 536295 | 0 | 749999 |
| 2 | 744520 | 1 | 5 | 50 | 1192 | 0 | 0 | 1283165 | 750000 | 1499999 |
| 3 | 751892 | 1 | 13 | 100 | 1197 | 0 | 0 | 2036249 | 1500000 | 2249999 |
| 4 | 781273 | 1 | 8 | 70 | 1978 | 0 | 0 | 2818719 | 2250000 | 2999999 |
| 5 | 755424 | 1 | 14 | 90 | 1916 | 0 | 0 | 3576121 | 3000000 | 3749999 |
| 6 | 800264 | 2 | 9 | 100 | 1718 | 1825 | 0 | 4378301 | 3750000 | 4499999 |
| 7 | 434228 | 3 | 13 | 65 | 1997 | 1568 | 1255 | 4816072 | 4500000 | 5249999 |
| 8 | 715404 | 3 | 11 | 70 | 1712 | 1425 | 1987 | 5536296 | 5250000 | 5999999 |
| 9 | 1114751 | 2 | 12 | 95 | 1045 | 1036 | 0 | 6656171 | 6000000 | 6749999 |
| 10 | 767430 | 3 | 14 | 85 | 1198 | 1598 | 1505 | 7425882 | 6750000 | 7499999 |
| 11 | 348656 | 1 | 15 | 50 | 1633 | 0 | 0 | 7778639 | 7500000 | 8249999 |
| 12 | 625415 | 1 | 12 | 80 | 1422 | 0 | 0 | 8405687 | 8250000 | 8999999 |
| 13 | 1141794 | 2 | 15 | 70 | 1986 | 1952 | 0 | 9548903 | 9000000 | 9749999 |
| 14 | 574323 | 1 | 7 | 100 | 1572 | 0 | 0 | 10127164 | 9750000 | 10499999 |
| 15 | 734269 | 1 | 16 | 70 | 1680 | 0 | 0 | 10863005 | 10500000 | 11249999 |
| 16 | 491279 | 2 | 6 | 90 | 1201 | 1727 | 0 | 11355964 | 11250000 | 11999999 |

Total number of pulses in waveform = 27

Type 5 Radar Waveform_4

Waveform Num = 4
Num of Bursts = 10
Burst Interval (us)= 1200000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 1105332 | 1 | 18 | 80 | 1995 | 0 | 0 | 1105332 | 0 | 1199999 |
| 2 | 1141521 | 1 | 8 | 50 | 1108 | 0 | 0 | 2248848 | 1200000 | 2399999 |
| 3 | 233928 | 2 | 15 | 55 | 1331 | 1482 | 0 | 2483884 | 2400000 | 3599999 |
| 4 | 1175909 | 2 | 16 | 80 | 1211 | 1977 | 0 | 3662606 | 3600000 | 4799999 |
| 5 | 1506651 | 2 | 14 | 80 | 1251 | 1687 | 0 | 5172445 | 4800000 | 5999999 |
| 6 | 1372738 | 3 | 13 | 70 | 1698 | 1924 | 1748 | 6548121 | 6000000 | 7199999 |
| 7 | 1216262 | 3 | 5 | 70 | 1963 | 1934 | 1364 | 7769753 | 7200000 | 8399999 |
| 8 | 1314775 | 2 | 16 | 50 | 1698 | 1682 | 0 | 9089789 | 8400000 | 9599999 |
| 9 | 1680846 | 2 | 7 | 75 | 1768 | 1155 | 0 | 10774015 | 9600000 | 10799999 |
| 10 | 823208 | 1 | 9 | 50 | 1430 | 0 | 0 | 11600146 | 10800000 | 11999999 |

Total number of pulses in waveform = 19



Type 5 Radar Waveform_5

Waveform Num = 5
Num of Bursts = 10
Burst Interval (us)= 1200000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 429287 | 1 | 13 | 50 | 1762 | 0 | 0 | 429287 | 0 | 1199999 |
| 2 | 1338387 | 2 | 15 | 55 | 1385 | 1927 | 0 | 1769436 | 1200000 | 2399999 |
| 3 | 1440594 | 1 | 18 | 85 | 1006 | 0 | 0 | 3213342 | 2400000 | 3599999 |
| 4 | 423120 | 3 | 16 | 50 | 1439 | 1203 | 1399 | 3637468 | 3600000 | 4799999 |
| 5 | 1222610 | 2 | 15 | 65 | 1879 | 1278 | 0 | 4864119 | 4800000 | 5999999 |
| 6 | 1647024 | 1 | 17 | 85 | 1649 | 0 | 0 | 6514300 | 6000000 | 7199999 |
| 7 | 1661519 | 2 | 13 | 80 | 1130 | 1033 | 0 | 8177468 | 7200000 | 8399999 |
| 8 | 292723 | 1 | 10 | 80 | 1307 | 0 | 0 | 8472354 | 8400000 | 9599999 |
| 9 | 1749759 | 3 | 14 | 90 | 1890 | 1687 | 1873 | 10223420 | 9600000 | 10799999 |
| 10 | 790276 | 1 | 5 | 95 | 1676 | 0 | 0 | 11019146 | 10800000 | 11999999 |

Total number of pulses in waveform = 17

Type 5 Radar Waveform_6

Waveform Num = 6
Num of Bursts = 13
Burst Interval (us)= 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 771111 | 1 | 20 | 60 | 1182 | 0 | 0 | 771111 | 0 | 923076 |
| 2 | 217041 | 1 | 7 | 50 | 1243 | 0 | 0 | 989334 | 923077 | 1846153 |
| 3 | 1197705 | 2 | 18 | 75 | 1432 | 1259 | 0 | 2188282 | 1846154 | 2769230 |
| 4 | 1312750 | 3 | 12 | 75 | 1229 | 1174 | 1586 | 3503723 | 2769231 | 3692307 |
| 5 | 1049436 | 1 | 9 | 95 | 1358 | 0 | 0 | 4557148 | 3692308 | 4615384 |
| 6 | 321641 | 2 | 10 | 90 | 1245 | 1158 | 0 | 4880147 | 4615385 | 5538461 |
| 7 | 767917 | 2 | 14 | 95 | 1089 | 1398 | 0 | 5650467 | 5538462 | 6461538 |
| 8 | 1463197 | 3 | 16 | 85 | 1238 | 1949 | 1355 | 7116151 | 6461539 | 7384615 |
| 9 | 333722 | 2 | 20 | 65 | 1703 | 1893 | 0 | 7454415 | 7384616 | 8307692 |
| 10 | 1023080 | 1 | 20 | 80 | 1558 | 0 | 0 | 8481091 | 8307693 | 9230769 |
| 11 | 1439711 | 3 | 5 | 70 | 1786 | 1250 | 1250 | 9922360 | 9230770 | 10153846 |
| 12 | 1033950 | 3 | 18 | 50 | 1116 | 1835 | 1822 | 10960596 | 10153847 | 11076923 |
| 13 | 258027 | 2 | 20 | 55 | 1770 | 1184 | 0 | 11223396 | 11076924 | 12000000 |

Total number of pulses in waveform = 26

Type 5 Radar Waveform_7

Waveform Num = 7
Num of Bursts = 13
Burst Interval (us)= 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 691372 | 1 | 6 | 60 | 1149 | 0 | 0 | 691372 | 0 | 923076 |
| 2 | 584113 | 3 | 12 | 95 | 1947 | 1586 | 1912 | 1276634 | 923077 | 1846153 |
| 3 | 701310 | 1 | 12 | 90 | 1297 | 0 | 0 | 1983389 | 1846154 | 2769230 |
| 4 | 1360532 | 3 | 12 | 60 | 1057 | 1028 | 2000 | 3345218 | 2769231 | 3692307 |
| 5 | 766779 | 2 | 20 | 50 | 1226 | 1960 | 0 | 4116082 | 3692308 | 4615384 |
| 6 | 1310102 | 3 | 12 | 90 | 1410 | 1869 | 1727 | 5429370 | 4615385 | 5538461 |
| 7 | 781097 | 3 | 10 | 90 | 1621 | 1360 | 1191 | 6215473 | 5538462 | 6461538 |
| 8 | 997789 | 2 | 6 | 100 | 1149 | 1557 | 0 | 7217434 | 6461539 | 7384615 |
| 9 | 675838 | 2 | 8 | 55 | 1875 | 1409 | 0 | 7895978 | 7384616 | 8307692 |
| 10 | 1282604 | 1 | 7 | 55 | 1749 | 0 | 0 | 9181866 | 8307693 | 9230769 |
| 11 | 755403 | 3 | 16 | 85 | 1266 | 1720 | 1730 | 9939018 | 9230770 | 10153846 |
| 12 | 947409 | 3 | 14 | 65 | 1508 | 1054 | 1108 | 10891143 | 10153847 | 11076923 |
| 13 | 1085454 | 2 | 9 | 70 | 1930 | 1745 | 0 | 11980267 | 11076924 | 12000000 |

Total number of pulses in waveform = 29



Type 5 Radar Waveform_8

```
Waveform Num = 8
Num of Bursts = 20
Burst Interval (us) = 800000
Burst # Off Time (us) # Pulses Chirp (MHz) PW (us) Pulse 1 Pri (us) Pulse 2 Pri (us) Pulse 3 Pri (us) Start Loc (us) Start Burst Interval (us) End Burst Interval (us)
1 230936 1 11 90 1234 0 0 230936 0 599999
2 911395 2 6 60 1525 0 0 1143565 600000 1199999
3 291431 1 14 55 1468 0 0 1438133 1200000 1799999
4 383278 3 20 80 1244 1548 1391 1822879 1800000 2399999
5 657015 1 6 70 1638 0 0 2484077 2400000 2999999
6 917524 2 12 70 1402 1948 0 3192893 3000000 3599999
7 579834 2 9 90 1989 1542 0 4113767 3600000 4199999
8 208697 3 20 80 1746 1074 1218 4697132 4200000 4799999
9 855240 2 16 70 1797 1890 0 4909867 4800000 5399999
10 587681 3 6 85 1040 1428 1631 5768794 5400000 5999999
11 681287 3 20 85 1596 1784 1569 6360574 6000000 6599999
12 327736 1 8 75 1304 0 0 7048810 6600000 7199999
13 749577 3 6 85 1748 1829 1677 7375849 7200000 7799999
14 544947 2 20 55 1655 1708 0 8130680 7800000 8399999
15 536418 1 8 55 1425 0 0 8678990 8400000 8999999
16 542990 3 10 70 1443 1269 1958 9216833 9000000 9599999
17 659682 3 18 70 1071 1123 1936 9764483 9600000 10199999
18 728118 3 12 50 1977 1152 1677 10428195 10200000 10799999
19 608679 1 10 85 1237 0 0 11161119 10800000 11399999
20 608679 3 18 100 1879 1014 1135 11771035 11400000 11999999
Total number of pulses in waveform = 43
```

Type 5 Radar Waveform_9

```
Waveform Num = 9
Num of Bursts = 14
Burst Interval (us) = 857143
Burst # Off Time (us) # Pulses Chirp (MHz) PW (us) Pulse 1 Pri (us) Pulse 2 Pri (us) Pulse 3 Pri (us) Start Loc (us) Start Burst Interval (us) End Burst Interval (us)
1 447902 1 19 65 1387 0 0 447902 0 857142
2 420618 1 9 95 1879 0 0 869907 857143 1714285
3 1195869 1 20 65 1527 0 0 2067655 1714286 2571428
4 799636 1 9 70 1685 0 0 2868818 2571429 3428571
5 1289109 1 10 60 1082 0 0 4159612 3428572 4285714
6 390781 1 13 75 1655 0 0 4551475 4285715 5142857
7 1100418 3 14 65 1243 1816 1417 5653548 5142858 6000000
8 1155800 1 20 65 1786 0 0 6813824 6000001 6857143
9 670407 2 8 90 1643 1122 0 7486017 6857144 7714286
10 716438 3 16 75 1145 1090 1781 8205220 7714287 8571429
11 961519 1 18 65 1689 0 0 9170755 8571430 9428572
12 672857 2 14 55 1166 1233 0 9845301 9428573 10285715
13 788782 3 10 60 1041 1444 1715 10636482 10285716 11142858
14 1255409 3 16 95 1291 1530 1767 11896091 11142859 12000001
Total number of pulses in waveform = 24
```

Type 5 Radar Waveform_10

```
Waveform Num = 10
Num of Bursts = 14
Burst Interval (us) = 857143
Burst # Off Time (us) # Pulses Chirp (MHz) PW (us) Pulse 1 Pri (us) Pulse 2 Pri (us) Pulse 3 Pri (us) Start Loc (us) Start Burst Interval (us) End Burst Interval (us)
1 423362 1 12 70 1707 0 0 423362 0 857142
2 807582 3 18 95 1119 1225 1580 1232651 857143 1714285
3 986142 1 20 100 1708 0 0 2222717 1714286 2571428
4 364316 3 19 60 1451 1648 1806 2588741 2571429 3428571
5 1471176 2 6 90 1290 1536 0 4064822 3428572 4285714
6 255027 3 16 75 1361 1465 1399 4322675 4285715 5142857
7 995083 1 6 60 1675 0 0 5321983 5142858 6000000
8 1215119 3 5 50 1449 1487 1227 6538777 6000001 6857143
9 1042915 3 20 100 1479 1809 1594 7585855 6857144 7714286
10 204303 2 7 60 1817 1021 0 7795040 7714287 8571429
11 1315916 2 10 90 1044 1401 0 9113794 8571430 9428572
12 925541 1 6 70 1559 0 0 10041780 9428573 10285715
13 552501 3 15 60 1157 1935 1236 10595840 10285716 11142858
14 1362699 1 7 55 1606 0 0 11962867 11142859 12000001
Total number of pulses in waveform = 29
```



Type 5 Radar Waveform_11

Waveform Num = 11
Num of Bursts = 8
Burst Interval (us)= 1500000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 705048 | 3 | 14 | 55 | 1699 | 1783 | 1832 | 705048 | 0 | 1499999 |
| 2 | 912214 | 1 | 14 | 60 | 1699 | 0 | 0 | 1622576 | 1500000 | 2999999 |
| 3 | 2245039 | 1 | 20 | 65 | 1474 | 0 | 0 | 3869314 | 3000000 | 4499999 |
| 4 | 1220033 | 3 | 7 | 50 | 1793 | 1377 | 1109 | 5090821 | 4500000 | 5999999 |
| 5 | 2312920 | 1 | 18 | 60 | 1819 | 0 | 0 | 7408020 | 6000000 | 7499999 |
| 6 | 608609 | 1 | 16 | 50 | 1862 | 0 | 0 | 8018448 | 7500000 | 8999999 |
| 7 | 2100202 | 2 | 13 | 70 | 1697 | 1738 | 0 | 10120512 | 9000000 | 10499999 |
| 8 | 1395121 | 2 | 10 | 65 | 1990 | 1289 | 0 | 11519068 | 10500000 | 11999999 |

Total number of pulses in waveform = 14

Type 5 Radar Waveform_12

Waveform Num = 12
Num of Bursts = 14
Burst Interval (us)= 857143

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 574000 | 2 | 10 | 55 | 1394 | 1361 | 0 | 574000 | 0 | 857142 |
| 2 | 329303 | 2 | 8 | 60 | 1117 | 1107 | 0 | 906058 | 857143 | 1714285 |
| 3 | 1121634 | 2 | 6 | 70 | 1861 | 1169 | 0 | 2029916 | 1714286 | 2571428 |
| 4 | 998407 | 3 | 20 | 95 | 1236 | 1421 | 1853 | 3031353 | 2571429 | 3428571 |
| 5 | 1241282 | 3 | 19 | 100 | 1016 | 1223 | 1834 | 4277145 | 3428572 | 4285714 |
| 6 | 770407 | 2 | 10 | 65 | 1397 | 1985 | 0 | 5051625 | 4285715 | 5142857 |
| 7 | 846973 | 2 | 20 | 70 | 1372 | 1086 | 0 | 5901980 | 5142858 | 6000000 |
| 8 | 552550 | 2 | 11 | 90 | 1865 | 1636 | 0 | 6456988 | 6000001 | 6857143 |
| 9 | 939915 | 2 | 15 | 85 | 1549 | 1322 | 0 | 7400404 | 6857144 | 7714286 |
| 10 | 495013 | 3 | 13 | 65 | 1982 | 1748 | 1563 | 7898288 | 7714287 | 8571429 |
| 11 | 912756 | 2 | 7 | 80 | 1039 | 1925 | 0 | 8816337 | 8571430 | 9428572 |
| 12 | 1056272 | 2 | 8 | 55 | 1578 | 1891 | 0 | 9875573 | 9428573 | 10285715 |
| 13 | 976866 | 2 | 11 | 50 | 1299 | 1764 | 0 | 10855908 | 10285716 | 11142858 |
| 14 | 842078 | 1 | 5 | 90 | 1311 | 0 | 0 | 11701049 | 11142859 | 12000001 |

Total number of pulses in waveform = 30

Type 5 Radar Waveform_13

Waveform Num = 13
Num of Bursts = 17
Burst Interval (us)= 705882

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri(us) | Pulse 2 Pri(us) | Pulse 3 Pri(us) | Start Loc (us) | Start Burst Interval(us) | End Burst Interval(us) |
|---------|---------------|----------|-------------|---------|-----------------|-----------------|-----------------|----------------|--------------------------|------------------------|
| 1 | 38843 | 2 | 5 | 75 | 1764 | 1460 | 0 | 38843 | 0 | 705881 |
| 2 | 959719 | 2 | 11 | 50 | 1173 | 1598 | 0 | 1001786 | 705882 | 1411763 |
| 3 | 788568 | 2 | 10 | 65 | 1145 | 1099 | 0 | 1793125 | 1411764 | 2117645 |
| 4 | 536866 | 2 | 9 | 85 | 1009 | 1655 | 0 | 2332235 | 2117646 | 2823527 |
| 5 | 710099 | 1 | 13 | 75 | 1914 | 0 | 0 | 3044998 | 2823528 | 3529409 |
| 6 | 1067628 | 1 | 5 | 95 | 1187 | 0 | 0 | 4114540 | 3529410 | 4235291 |
| 7 | 684851 | 3 | 17 | 60 | 1134 | 1201 | 1899 | 4800578 | 4235292 | 4941173 |
| 8 | 706536 | 1 | 16 | 100 | 1981 | 0 | 0 | 5511348 | 4941174 | 5647055 |
| 9 | 407336 | 3 | 11 | 50 | 1981 | 1670 | 1223 | 5920665 | 5647056 | 6352937 |
| 10 | 530478 | 2 | 10 | 65 | 1059 | 1408 | 0 | 6456017 | 6352938 | 7058819 |
| 11 | 1024286 | 1 | 18 | 50 | 1642 | 0 | 0 | 7482770 | 7058820 | 7764701 |
| 12 | 876278 | 1 | 10 | 80 | 1647 | 0 | 0 | 8360690 | 7764702 | 8470583 |
| 13 | 729439 | 3 | 13 | 55 | 1717 | 1644 | 1814 | 9091776 | 8470584 | 9176465 |
| 14 | 437153 | 2 | 13 | 75 | 1568 | 1304 | 0 | 9534104 | 9176466 | 9882347 |
| 15 | 838082 | 3 | 12 | 70 | 1894 | 1569 | 1863 | 10375058 | 9882348 | 10588229 |
| 16 | 623257 | 3 | 6 | 80 | 1297 | 1408 | 1258 | 11003641 | 10588230 | 11294111 |
| 17 | 502503 | 2 | 10 | 100 | 1299 | 1282 | 0 | 11510107 | 11294112 | 11999993 |

Total number of pulses in waveform = 34



Type 5 Radar Waveform_14

Waveform Num = 14
Num of Bursts = 8
Burst Interval (us)= 1500000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 1391096 | 2 | 6 | 90 | 1158 | 1317 | 0 | 1391096 | 0 | 1499999 |
| 2 | 649580 | 3 | 11 | 70 | 1311 | 1937 | 1212 | 2043151 | 1500000 | 2999999 |
| 3 | 1568095 | 2 | 12 | 60 | 1022 | 1054 | 0 | 3615706 | 3000000 | 4499999 |
| 4 | 1055522 | 1 | 18 | 85 | 1498 | 0 | 0 | 4673304 | 4500000 | 5999999 |
| 5 | 2369889 | 2 | 15 | 95 | 1555 | 1677 | 0 | 7044691 | 6000000 | 7499999 |
| 6 | 1042816 | 2 | 6 | 95 | 1718 | 1879 | 0 | 8090739 | 7500000 | 8999999 |
| 7 | 913922 | 1 | 20 | 90 | 1956 | 0 | 0 | 9008258 | 9000000 | 10499999 |
| 8 | 2395393 | 3 | 7 | 90 | 1023 | 1950 | 1789 | 11405607 | 10500000 | 11999999 |

Total number of pulses in waveform = 16

Type 5 Radar Waveform_15

Waveform Num = 15
Num of Bursts = 16
Burst Interval (us)= 750000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 225338 | 3 | 11 | 60 | 1474 | 1499 | 1932 | 225338 | 0 | 749999 |
| 2 | 562878 | 2 | 6 | 75 | 1254 | 1401 | 0 | 793121 | 750000 | 1499999 |
| 3 | 1256157 | 3 | 20 | 100 | 1615 | 1621 | 1873 | 2051933 | 1500000 | 2249999 |
| 4 | 699118 | 3 | 17 | 50 | 1289 | 1080 | 1538 | 2756160 | 2250000 | 2999999 |
| 5 | 521913 | 1 | 16 | 50 | 1251 | 0 | 0 | 3281960 | 3000000 | 3749999 |
| 6 | 915082 | 2 | 15 | 90 | 1769 | 1446 | 0 | 4198293 | 3750000 | 4499999 |
| 7 | 647706 | 3 | 18 | 85 | 1794 | 1379 | 1645 | 4849214 | 4500000 | 5249999 |
| 8 | 795312 | 1 | 8 | 65 | 1095 | 0 | 0 | 5649344 | 5250000 | 5999999 |
| 9 | 1081463 | 1 | 9 | 85 | 1181 | 0 | 0 | 6731902 | 6000000 | 6749999 |
| 10 | 199364 | 1 | 17 | 95 | 1564 | 0 | 0 | 6932447 | 6750000 | 7499999 |
| 11 | 851689 | 1 | 8 | 85 | 1488 | 0 | 0 | 7785700 | 7500000 | 8249999 |
| 12 | 923012 | 2 | 5 | 70 | 1713 | 1557 | 0 | 8710180 | 8250000 | 8999999 |
| 13 | 721923 | 1 | 10 | 75 | 1690 | 0 | 0 | 9435373 | 9000000 | 9749999 |
| 14 | 699861 | 1 | 7 | 75 | 1775 | 0 | 0 | 10136924 | 9750000 | 10499999 |
| 15 | 906296 | 3 | 9 | 60 | 1719 | 1013 | 1828 | 11044995 | 10500000 | 11249999 |
| 16 | 325918 | 3 | 18 | 75 | 1538 | 1347 | 1765 | 11375473 | 11250000 | 11999999 |

Total number of pulses in waveform = 31

Type 5 Radar Waveform_16

Waveform Num = 16
Num of Bursts = 15
Burst Interval (us)= 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 543502 | 1 | 12 | 65 | 1228 | 0 | 0 | 543502 | 0 | 799999 |
| 2 | 751685 | 1 | 19 | 90 | 1436 | 0 | 0 | 1296415 | 800000 | 1599999 |
| 3 | 793640 | 3 | 14 | 65 | 1254 | 1326 | 1075 | 2091491 | 1600000 | 2399999 |
| 4 | 556511 | 2 | 8 | 65 | 1457 | 1325 | 0 | 2651657 | 2400000 | 3199999 |
| 5 | 1094034 | 3 | 15 | 65 | 1291 | 1066 | 1735 | 3748473 | 3200000 | 3999999 |
| 6 | 324583 | 1 | 10 | 95 | 1909 | 0 | 0 | 4077148 | 4000000 | 4799999 |
| 7 | 1061415 | 3 | 13 | 95 | 1782 | 1548 | 1180 | 5140472 | 4800000 | 5599999 |
| 8 | 709571 | 2 | 14 | 60 | 1859 | 1545 | 0 | 5854553 | 5600000 | 6399999 |
| 9 | 592365 | 1 | 20 | 85 | 1881 | 0 | 0 | 6450322 | 6400000 | 7199999 |
| 10 | 808145 | 3 | 12 | 50 | 1221 | 1920 | 1119 | 7260348 | 7200000 | 7999999 |
| 11 | 785177 | 1 | 15 | 95 | 1232 | 0 | 0 | 8049785 | 8000000 | 8799999 |
| 12 | 1346417 | 2 | 16 | 50 | 1619 | 1009 | 0 | 9397434 | 8800000 | 9599999 |
| 13 | 702780 | 1 | 10 | 60 | 1298 | 0 | 0 | 10102842 | 9600000 | 10399999 |
| 14 | 422098 | 1 | 9 | 75 | 1511 | 0 | 0 | 10526238 | 10400000 | 11199999 |
| 15 | 902653 | 2 | 10 | 50 | 1912 | 1982 | 0 | 11430402 | 11200000 | 11999999 |

Total number of pulses in waveform = 27



Type 5 Radar Waveform_17

Waveform Num = 17
Num of Bursts = 15
Burst Interval (us) = 800000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 751369 | 2 | 10 | 70 | 1802 | 1422 | 0 | 751369 | 0 | 799999 |
| 2 | 732842 | 2 | 9 | 65 | 1990 | 1967 | 0 | 1487435 | 800000 | 1599999 |
| 3 | 574167 | 2 | 7 | 100 | 1509 | 1880 | 0 | 2065559 | 1600000 | 2399999 |
| 4 | 361758 | 1 | 14 | 70 | 1795 | 0 | 0 | 2430706 | 2400000 | 3199999 |
| 5 | 825480 | 3 | 5 | 65 | 1078 | 1525 | 1400 | 3257981 | 3200000 | 3999999 |
| 6 | 936827 | 2 | 6 | 95 | 1598 | 1574 | 0 | 4198811 | 4000000 | 4799999 |
| 7 | 1114611 | 1 | 18 | 90 | 1690 | 0 | 0 | 5316594 | 4800000 | 5599999 |
| 8 | 381192 | 3 | 8 | 90 | 1064 | 1115 | 1109 | 5699476 | 5600000 | 6399999 |
| 9 | 880411 | 3 | 16 | 70 | 1952 | 1967 | 1325 | 6583175 | 6400000 | 7199999 |
| 10 | 830454 | 1 | 18 | 85 | 1389 | 0 | 0 | 7418873 | 7200000 | 7999999 |
| 11 | 974046 | 1 | 6 | 95 | 1662 | 0 | 0 | 8394308 | 8000000 | 8799999 |
| 12 | 478052 | 2 | 5 | 50 | 1927 | 1574 | 0 | 8874022 | 8800000 | 9599999 |
| 13 | 1131987 | 2 | 14 | 100 | 1002 | 1120 | 0 | 10009510 | 9600000 | 10399999 |
| 14 | 1091064 | 1 | 14 | 50 | 1058 | 0 | 0 | 11102696 | 10400000 | 11199999 |
| 15 | 150484 | 3 | 8 | 50 | 1276 | 1409 | 1376 | 11254238 | 11200000 | 11999999 |

Total number of pulses in waveform = 29

Type 5 Radar Waveform_18

Waveform Num = 18
Num of Bursts = 13
Burst Interval (us) = 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 277754 | 1 | 11 | 65 | 1987 | 0 | 0 | 277754 | 0 | 923076 |
| 2 | 648786 | 1 | 19 | 100 | 1629 | 0 | 0 | 928527 | 923077 | 1846153 |
| 3 | 998305 | 3 | 15 | 70 | 1094 | 1394 | 1853 | 1928461 | 1846154 | 2769230 |
| 4 | 1412605 | 2 | 8 | 90 | 1494 | 1009 | 0 | 3345407 | 2769231 | 3692307 |
| 5 | 807049 | 3 | 9 | 50 | 1543 | 1843 | 1559 | 4154959 | 3692308 | 4615384 |
| 6 | 974431 | 2 | 6 | 50 | 1667 | 1625 | 0 | 5134335 | 4615385 | 5538461 |
| 7 | 539114 | 3 | 19 | 90 | 1952 | 1910 | 1174 | 5676741 | 5538462 | 6461538 |
| 8 | 1302791 | 2 | 6 | 95 | 1638 | 1241 | 0 | 6984568 | 6461539 | 7384615 |
| 9 | 1253088 | 1 | 6 | 90 | 1472 | 0 | 0 | 8240535 | 7384616 | 8307692 |
| 10 | 204897 | 1 | 10 | 65 | 1075 | 0 | 0 | 8446904 | 8307693 | 9230769 |
| 11 | 1399366 | 1 | 17 | 95 | 1797 | 0 | 0 | 9847345 | 9230770 | 10153846 |
| 12 | 569647 | 2 | 8 | 65 | 1166 | 1860 | 0 | 10418789 | 10153847 | 11076923 |
| 13 | 1243893 | 3 | 20 | 70 | 1819 | 1439 | 1819 | 11665708 | 11076924 | 12000000 |

Total number of pulses in waveform = 25

Type 5 Radar Waveform_19

Waveform Num = 19
Num of Bursts = 18
Burst Interval (us) = 666667

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 467107 | 3 | 15 | 50 | 1458 | 1960 | 1445 | 467107 | 0 | 666666 |
| 2 | 349773 | 3 | 13 | 100 | 1550 | 1111 | 1763 | 821743 | 666667 | 1333333 |
| 3 | 614584 | 1 | 20 | 95 | 1271 | 0 | 0 | 1440751 | 1333334 | 2000000 |
| 4 | 849502 | 1 | 16 | 75 | 1677 | 0 | 0 | 2291524 | 2000001 | 2666667 |
| 5 | 542331 | 2 | 7 | 75 | 1542 | 1615 | 0 | 2835532 | 2666668 | 3333334 |
| 6 | 503862 | 2 | 12 | 90 | 1281 | 1358 | 0 | 3342551 | 3333335 | 4000001 |
| 7 | 1047587 | 2 | 17 | 65 | 1179 | 1061 | 0 | 4392777 | 4000002 | 4666668 |
| 8 | 288369 | 1 | 19 | 70 | 1924 | 0 | 0 | 4683386 | 4666669 | 5333335 |
| 9 | 1251732 | 3 | 13 | 50 | 1473 | 1049 | 1327 | 5937042 | 5333336 | 6000002 |
| 10 | 243702 | 2 | 7 | 95 | 1206 | 1510 | 0 | 6184593 | 6000003 | 6666669 |
| 11 | 936693 | 1 | 13 | 50 | 1291 | 0 | 0 | 7124002 | 6666670 | 7333336 |
| 12 | 814162 | 1 | 14 | 50 | 1987 | 0 | 0 | 7939455 | 7333337 | 8000003 |
| 13 | 658933 | 2 | 18 | 65 | 1282 | 1792 | 0 | 8600375 | 8000004 | 8666670 |
| 14 | 168748 | 3 | 16 | 90 | 1511 | 1933 | 1867 | 8772197 | 8666671 | 9333337 |
| 15 | 768529 | 3 | 18 | 100 | 1916 | 1929 | 1314 | 9546037 | 9333338 | 10000004 |
| 16 | 1104999 | 2 | 10 | 100 | 1237 | 1720 | 0 | 10656195 | 10000005 | 10666671 |
| 17 | 243973 | 1 | 18 | 85 | 1859 | 0 | 0 | 10903125 | 10666672 | 11333338 |
| 18 | 663730 | 2 | 6 | 70 | 1937 | 1079 | 0 | 11568714 | 11333339 | 12000005 |

Total number of pulses in waveform = 35



Type 5 Radar Waveform_20

Waveform Num = 20
Num of Bursts = 17
Burst Interval (us)= 705882

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 647544 | 1 | 17 | 90 | 1798 | 0 | 0 | 647544 | 0 | 705881 |
| 2 | 310755 | 2 | 9 | 90 | 1758 | 1637 | 0 | 960097 | 705882 | 1411763 |
| 3 | 524070 | 1 | 15 | 65 | 1312 | 0 | 0 | 1487562 | 1411764 | 2117645 |
| 4 | 991108 | 3 | 10 | 65 | 1689 | 1592 | 1319 | 2479982 | 2117646 | 2823527 |
| 5 | 841903 | 3 | 19 | 75 | 1135 | 1801 | 1107 | 3326485 | 2823528 | 3529409 |
| 6 | 586408 | 3 | 17 | 85 | 1517 | 1172 | 1754 | 3916936 | 3529410 | 4235291 |
| 7 | 843892 | 3 | 20 | 50 | 1646 | 2000 | 1198 | 4765271 | 4235292 | 4941173 |
| 8 | 780577 | 3 | 19 | 70 | 1299 | 1820 | 1209 | 5550692 | 4941174 | 5647055 |
| 9 | 480697 | 2 | 17 | 70 | 1305 | 1930 | 0 | 6035717 | 5647056 | 6352937 |
| 10 | 547245 | 2 | 8 | 95 | 1822 | 1755 | 0 | 6586197 | 6352938 | 7058819 |
| 11 | 763100 | 2 | 20 | 75 | 1212 | 1049 | 0 | 7352874 | 7058820 | 7764701 |
| 12 | 461572 | 1 | 10 | 90 | 1379 | 0 | 0 | 7816707 | 7764702 | 8470583 |
| 13 | 1160114 | 1 | 11 | 75 | 1190 | 0 | 0 | 8978200 | 8470584 | 9176465 |
| 14 | 707933 | 1 | 20 | 80 | 1255 | 0 | 0 | 9687323 | 9176466 | 9882347 |
| 15 | 290396 | 3 | 14 | 55 | 1244 | 1143 | 1263 | 9978974 | 9882348 | 10588229 |
| 16 | 699152 | 3 | 11 | 75 | 1822 | 1824 | 1045 | 10681776 | 10588230 | 11294111 |
| 17 | 707354 | 1 | 12 | 55 | 1844 | 0 | 0 | 11393821 | 11294112 | 11999993 |

Total number of pulses in waveform = 35

Type 5 Radar Waveform_21

Waveform Num = 21
Num of Bursts = 16
Burst Interval (us)= 750000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 28753 | 2 | 8 | 65 | 1195 | 1452 | 0 | 28753 | 0 | 749999 |
| 2 | 1212289 | 1 | 11 | 65 | 1192 | 0 | 0 | 1243689 | 750000 | 1499999 |
| 3 | 768057 | 1 | 9 | 90 | 1869 | 0 | 0 | 2012938 | 1500000 | 2249999 |
| 4 | 865478 | 2 | 8 | 100 | 1362 | 1900 | 0 | 2880285 | 2250000 | 2999999 |
| 5 | 390226 | 1 | 10 | 75 | 1855 | 0 | 0 | 3273773 | 3000000 | 3749999 |
| 6 | 580971 | 3 | 6 | 85 | 1438 | 1728 | 1260 | 3856599 | 3750000 | 4499999 |
| 7 | 963229 | 3 | 6 | 55 | 1571 | 1716 | 1198 | 4824254 | 4500000 | 5249999 |
| 8 | 663545 | 2 | 14 | 50 | 1695 | 1395 | 0 | 5492284 | 5250000 | 5999999 |
| 9 | 507215 | 2 | 18 | 70 | 1964 | 1858 | 0 | 6002589 | 6000000 | 6749999 |
| 10 | 1400416 | 3 | 17 | 100 | 1354 | 1335 | 1497 | 7406827 | 6750000 | 7499999 |
| 11 | 686896 | 2 | 16 | 75 | 1478 | 1192 | 0 | 8097909 | 7500000 | 8249999 |
| 12 | 690327 | 2 | 8 | 75 | 1239 | 1125 | 0 | 8790906 | 8250000 | 8999999 |
| 13 | 654411 | 2 | 15 | 75 | 1255 | 1351 | 0 | 9447681 | 9000000 | 9749999 |
| 14 | 388603 | 1 | 14 | 60 | 1284 | 0 | 0 | 9838890 | 9750000 | 10499999 |
| 15 | 704632 | 1 | 6 | 50 | 1544 | 0 | 0 | 10544806 | 10500000 | 11249999 |
| 16 | 1348936 | 3 | 10 | 60 | 1193 | 1018 | 1152 | 11895286 | 11250000 | 11999999 |

Total number of pulses in waveform = 31

Type 5 Radar Waveform_22

Waveform Num = 22
Num of Bursts = 16
Burst Interval (us)= 750000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 527591 | 1 | 12 | 95 | 1000 | 0 | 0 | 527591 | 0 | 749999 |
| 2 | 842409 | 1 | 12 | 65 | 1844 | 0 | 0 | 1371000 | 750000 | 1499999 |
| 3 | 204960 | 1 | 15 | 55 | 1131 | 0 | 0 | 1577804 | 1500000 | 2249999 |
| 4 | 1175354 | 1 | 15 | 65 | 1307 | 0 | 0 | 2754289 | 2250000 | 2999999 |
| 5 | 311658 | 1 | 10 | 55 | 1683 | 0 | 0 | 3067254 | 3000000 | 3749999 |
| 6 | 807088 | 1 | 12 | 70 | 1498 | 0 | 0 | 3876025 | 3750000 | 4499999 |
| 7 | 754480 | 2 | 19 | 50 | 1885 | 1708 | 0 | 4632003 | 4500000 | 5249999 |
| 8 | 1144372 | 2 | 14 | 75 | 1579 | 1306 | 0 | 5779968 | 5250000 | 5999999 |
| 9 | 406645 | 3 | 11 | 85 | 1050 | 1323 | 1734 | 6189498 | 6000000 | 6749999 |
| 10 | 1254145 | 1 | 7 | 70 | 1154 | 0 | 0 | 7447750 | 6750000 | 7499999 |
| 11 | 551865 | 2 | 12 | 55 | 1866 | 1403 | 0 | 8000769 | 7500000 | 8249999 |
| 12 | 902563 | 3 | 20 | 60 | 1360 | 1620 | 1288 | 8906601 | 8250000 | 8999999 |
| 13 | 399301 | 2 | 18 | 90 | 1156 | 1040 | 0 | 9310170 | 9000000 | 9749999 |
| 14 | 906901 | 3 | 13 | 75 | 1592 | 1302 | 1797 | 10219267 | 9750000 | 10499999 |
| 15 | 685994 | 2 | 18 | 75 | 1866 | 1360 | 0 | 10909952 | 10500000 | 11249999 |
| 16 | 1017280 | 3 | 9 | 65 | 1429 | 1285 | 1306 | 11930458 | 11250000 | 11999999 |

Total number of pulses in waveform = 29



Type 5 Radar Waveform_23

Waveform Num = 23
Num of Bursts = 11
Burst Interval (us)= 1090909

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 127203 | 2 | 20 | 75 | 1085 | 1186 | 0 | 127203 | 0 | 1090908 |
| 2 | 1415428 | 2 | 16 | 65 | 1140 | 1616 | 0 | 1544902 | 1090909 | 2181817 |
| 3 | 975972 | 3 | 7 | 85 | 1290 | 1240 | 1703 | 2523630 | 2181818 | 3272726 |
| 4 | 1723154 | 2 | 12 | 50 | 1060 | 1020 | 0 | 4251017 | 3272727 | 4363635 |
| 5 | 1097683 | 3 | 5 | 50 | 1251 | 1718 | 1877 | 5350780 | 4363636 | 5454544 |
| 6 | 222004 | 3 | 8 | 90 | 1975 | 1169 | 1218 | 5577630 | 5454545 | 6545453 |
| 7 | 1022738 | 2 | 14 | 55 | 1712 | 1726 | 0 | 6604730 | 6545454 | 7636362 |
| 8 | 1477505 | 2 | 6 | 65 | 1429 | 1402 | 0 | 8085673 | 7636363 | 8727271 |
| 9 | 1244464 | 3 | 19 | 70 | 1945 | 1434 | 1465 | 9332968 | 8727272 | 9818180 |
| 10 | 1509269 | 2 | 11 | 75 | 1972 | 1156 | 0 | 10847081 | 9818181 | 10909089 |
| 11 | 87024 | 3 | 10 | 90 | 1100 | 1692 | 1949 | 10937233 | 10909090 | 11999998 |

Total number of pulses in waveform = 27

Type 5 Radar Waveform_24

Waveform Num = 24
Num of Bursts = 18
Burst Interval (us)= 666667

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 362663 | 1 | 15 | 65 | 1441 | 0 | 0 | 362663 | 0 | 666666 |
| 2 | 921557 | 1 | 19 | 85 | 1838 | 0 | 0 | 1285661 | 666667 | 1333333 |
| 3 | 559004 | 2 | 6 | 90 | 1892 | 1889 | 0 | 1846503 | 1333334 | 2000000 |
| 4 | 389717 | 3 | 16 | 70 | 1259 | 1665 | 1182 | 2240001 | 2000001 | 2666667 |
| 5 | 1042275 | 3 | 19 | 100 | 1914 | 1091 | 1540 | 3286382 | 2666668 | 3333334 |
| 6 | 323561 | 2 | 19 | 95 | 1887 | 1329 | 0 | 3614488 | 3333335 | 4000001 |
| 7 | 826519 | 1 | 18 | 80 | 1282 | 0 | 0 | 4444223 | 4000002 | 4666668 |
| 8 | 864001 | 1 | 12 | 70 | 1111 | 0 | 0 | 5309506 | 4666669 | 5333335 |
| 9 | 100331 | 1 | 14 | 95 | 1094 | 0 | 0 | 5410948 | 5333336 | 6000002 |
| 10 | 1182508 | 3 | 17 | 65 | 1592 | 1503 | 1722 | 6594550 | 6000003 | 6666669 |
| 11 | 177083 | 3 | 20 | 70 | 1157 | 1404 | 1294 | 6776450 | 6666670 | 7333336 |
| 12 | 774500 | 2 | 5 | 80 | 1683 | 1827 | 0 | 7554805 | 7333337 | 8000003 |
| 13 | 478015 | 1 | 20 | 65 | 1933 | 0 | 0 | 8036330 | 8000004 | 8666670 |
| 14 | 1238084 | 2 | 19 | 100 | 1925 | 1336 | 0 | 9276347 | 8666671 | 9333337 |
| 15 | 241746 | 2 | 8 | 90 | 1011 | 1207 | 0 | 9521354 | 9333338 | 10000004 |
| 16 | 1124699 | 2 | 8 | 100 | 1241 | 1143 | 0 | 10648271 | 10000005 | 10666671 |
| 17 | 147816 | 3 | 13 | 55 | 1762 | 1723 | 1185 | 10798471 | 10666672 | 11333338 |
| 18 | 749716 | 2 | 17 | 50 | 1735 | 1292 | 0 | 11552857 | 11333339 | 12000005 |

Total number of pulses in waveform = 35

Type 5 Radar Waveform_25

Waveform Num = 25
Num of Bursts = 13
Burst Interval (us)= 923077

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 235912 | 1 | 17 | 95 | 1194 | 0 | 0 | 235912 | 0 | 923076 |
| 2 | 1269235 | 1 | 18 | 90 | 1230 | 0 | 0 | 1506341 | 923077 | 1846153 |
| 3 | 684543 | 3 | 9 | 70 | 1440 | 1956 | 1431 | 2192114 | 1846154 | 2769230 |
| 4 | 1395588 | 1 | 7 | 80 | 1019 | 0 | 0 | 3592529 | 2769231 | 3692307 |
| 5 | 123564 | 3 | 6 | 55 | 1752 | 1718 | 1806 | 3717112 | 3692308 | 4615384 |
| 6 | 1494976 | 2 | 7 | 100 | 1705 | 1699 | 0 | 5217364 | 4615385 | 5538461 |
| 7 | 323827 | 1 | 19 | 70 | 1439 | 0 | 0 | 5544595 | 5538462 | 6461538 |
| 8 | 1334231 | 1 | 8 | 80 | 1282 | 0 | 0 | 6880265 | 6461539 | 7384615 |
| 9 | 968004 | 3 | 11 | 50 | 1799 | 1302 | 1192 | 7849551 | 7384616 | 8307692 |
| 10 | 776610 | 1 | 15 | 100 | 1633 | 0 | 0 | 8630454 | 8307693 | 9230769 |
| 11 | 637214 | 3 | 17 | 75 | 1345 | 1813 | 1962 | 9269301 | 9230770 | 10153846 |
| 12 | 1459833 | 2 | 19 | 90 | 1524 | 1694 | 0 | 10734254 | 10153847 | 11076923 |
| 13 | 665189 | 2 | 12 | 80 | 1017 | 1061 | 0 | 11402661 | 11076924 | 12000000 |

Total number of pulses in waveform = 24



Type 5 Radar Waveform_26

Waveform Num = 26
Num of Bursts = 18
Burst Interval (us) = 666667

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 70156 | 2 | 17 | 60 | 1957 | 1079 | 0 | 70156 | 0 | 666666 |
| 2 | 696764 | 1 | 15 | 60 | 1041 | 0 | 0 | 769956 | 666667 | 1333333 |
| 3 | 794948 | 3 | 17 | 55 | 1073 | 1758 | 1796 | 156945 | 1333334 | 2000000 |
| 4 | 781015 | 3 | 9 | 50 | 1820 | 1283 | 1738 | 2351587 | 2000001 | 2666667 |
| 5 | 890875 | 2 | 7 | 80 | 1697 | 1957 | 0 | 3247303 | 2666668 | 3333334 |
| 6 | 326938 | 2 | 10 | 80 | 1312 | 1512 | 0 | 3577895 | 3333335 | 4000001 |
| 7 | 847803 | 2 | 18 | 75 | 1134 | 1295 | 0 | 4428522 | 4000002 | 4666668 |
| 8 | 245866 | 2 | 16 | 75 | 1393 | 1576 | 0 | 4676817 | 4666669 | 5333335 |
| 9 | 790908 | 3 | 20 | 90 | 1113 | 1798 | 1573 | 5470694 | 5333336 | 6000002 |
| 10 | 1188181 | 1 | 19 | 55 | 1148 | 0 | 0 | 6663359 | 6000003 | 6666669 |
| 11 | 262376 | 2 | 15 | 60 | 1896 | 1112 | 0 | 6926883 | 6666670 | 7333336 |
| 12 | 722588 | 1 | 12 | 70 | 1653 | 0 | 0 | 7652479 | 7333337 | 8000003 |
| 13 | 942790 | 3 | 14 | 60 | 1331 | 1862 | 1537 | 8596922 | 8000004 | 8666670 |
| 14 | 327561 | 1 | 12 | 80 | 1432 | 0 | 0 | 8929233 | 8666671 | 9333337 |
| 15 | 1029932 | 3 | 15 | 75 | 1116 | 1619 | 1686 | 9960597 | 9333338 | 10000004 |
| 16 | 94257 | 1 | 20 | 55 | 1683 | 0 | 0 | 10059275 | 10000005 | 10666671 |
| 17 | 846668 | 1 | 7 | 55 | 1067 | 0 | 0 | 10907626 | 10666672 | 11333338 |
| 18 | 763336 | 2 | 15 | 60 | 1508 | 1759 | 0 | 11672029 | 11333339 | 12000005 |

Total number of pulses in waveform = 35

Type 5 Radar Waveform_27

Waveform Num = 27
Num of Bursts = 19
Burst Interval (us) = 631579

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 265046 | 3 | 17 | 60 | 1300 | 1361 | 1075 | 268046 | 0 | 631578 |
| 2 | 596526 | 1 | 12 | 75 | 1111 | 0 | 0 | 868308 | 631579 | 1263157 |
| 3 | 517323 | 1 | 14 | 100 | 1151 | 0 | 0 | 1386742 | 1263158 | 1894736 |
| 4 | 597185 | 1 | 7 | 95 | 1116 | 0 | 0 | 1985078 | 1894737 | 2526315 |
| 5 | 560678 | 1 | 19 | 85 | 1917 | 0 | 0 | 2546872 | 2526316 | 3157894 |
| 6 | 1047715 | 2 | 20 | 65 | 1202 | 1205 | 0 | 3596504 | 3157895 | 3789473 |
| 7 | 441323 | 2 | 15 | 75 | 1177 | 1356 | 0 | 4040234 | 3789474 | 4421052 |
| 8 | 1000006 | 3 | 18 | 65 | 1703 | 1691 | 1039 | 5042773 | 4421053 | 5052631 |
| 9 | 109953 | 1 | 7 | 90 | 1419 | 0 | 0 | 5167159 | 5052632 | 5684210 |
| 10 | 1042449 | 2 | 8 | 85 | 1031 | 1192 | 0 | 6201027 | 5684211 | 6315789 |
| 11 | 469202 | 2 | 17 | 70 | 1278 | 1262 | 0 | 6662452 | 6315790 | 6947368 |
| 12 | 388492 | 2 | 10 | 95 | 1495 | 1730 | 0 | 7053484 | 6947369 | 7578947 |
| 13 | 594995 | 2 | 12 | 80 | 1523 | 1593 | 0 | 7651704 | 7578948 | 8210526 |
| 14 | 932822 | 3 | 16 | 100 | 1322 | 1567 | 1513 | 8587642 | 8210527 | 8842105 |
| 15 | 543086 | 2 | 20 | 60 | 1845 | 1250 | 0 | 9135120 | 8842106 | 9473684 |
| 16 | 776831 | 1 | 17 | 95 | 1453 | 0 | 0 | 9915046 | 9473685 | 10105263 |
| 17 | 563194 | 1 | 10 | 75 | 1601 | 0 | 0 | 10479693 | 10105264 | 10736842 |
| 18 | 475670 | 3 | 13 | 90 | 1866 | 1251 | 1274 | 10956964 | 10736843 | 11368421 |
| 19 | 780371 | 2 | 13 | 60 | 1734 | 1238 | 0 | 11741726 | 11368422 | 12000000 |

Total number of pulses in waveform = 35

Type 5 Radar Waveform_28

Waveform Num = 28
Num of Bursts = 19
Burst Interval (us) = 631579

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 521504 | 1 | 9 | 80 | 1264 | 0 | 0 | 521504 | 0 | 631578 |
| 2 | 512803 | 2 | 6 | 85 | 1341 | 1778 | 0 | 1035571 | 631579 | 1263157 |
| 3 | 258162 | 3 | 19 | 55 | 1276 | 2000 | 1273 | 1296852 | 1263158 | 1894736 |
| 4 | 734828 | 1 | 9 | 80 | 1114 | 0 | 0 | 2036229 | 1894737 | 2526315 |
| 5 | 1117901 | 1 | 6 | 100 | 1865 | 0 | 0 | 3155244 | 2526316 | 3157894 |
| 6 | 64293 | 3 | 6 | 80 | 1667 | 1124 | 1943 | 3221402 | 3157895 | 3789473 |
| 7 | 727984 | 1 | 16 | 75 | 1700 | 0 | 0 | 3954120 | 3789474 | 4421052 |
| 8 | 478441 | 2 | 13 | 85 | 1690 | 1869 | 0 | 4434261 | 4421053 | 5052631 |
| 9 | 1081193 | 3 | 17 | 100 | 1836 | 1909 | 1347 | 5519013 | 5052632 | 5684210 |
| 10 | 542982 | 2 | 10 | 70 | 1730 | 1034 | 0 | 6067087 | 5684211 | 6315789 |
| 11 | 805496 | 3 | 19 | 65 | 1413 | 1423 | 1499 | 6875347 | 6315790 | 6947368 |
| 12 | 198196 | 1 | 6 | 60 | 1767 | 0 | 0 | 7077878 | 6947369 | 7578947 |
| 13 | 893673 | 2 | 18 | 60 | 1170 | 1558 | 0 | 7973318 | 7578948 | 8210526 |
| 14 | 394699 | 2 | 5 | 50 | 1499 | 1523 | 0 | 8370745 | 8210527 | 8842105 |
| 15 | 639021 | 1 | 8 | 100 | 1653 | 0 | 0 | 9012788 | 8842106 | 9473684 |
| 16 | 1054885 | 3 | 8 | 65 | 1116 | 1098 | 1799 | 10069326 | 9473685 | 10105263 |
| 17 | 239778 | 1 | 6 | 70 | 1583 | 0 | 0 | 10313117 | 10105264 | 10736842 |
| 18 | 512712 | 3 | 10 | 60 | 1220 | 1667 | 1206 | 10827412 | 10736843 | 11368421 |
| 19 | 1037620 | 1 | 14 | 95 | 1922 | 0 | 0 | 11869125 | 11368422 | 12000000 |

Total number of pulses in waveform = 36



Type 5 Radar Waveform_29

Waveform Num = 29
Num of Bursts = 18
Burst Interval (us) = 666667

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 57369 | 3 | 7 | 75 | 1724 | 1038 | 1378 | 626775 | 0 | 666666 |
| 2 | 1110411 | 1 | 15 | 100 | 1337 | 0 | 0 | 688284 | 666667 | 1333333 |
| 3 | 665182 | 1 | 6 | 85 | 1751 | 0 | 0 | 1800032 | 1333334 | 2000000 |
| 4 | 327894 | 3 | 13 | 75 | 1877 | 1241 | 1229 | 2466965 | 2000001 | 2666667 |
| 5 | 721697 | 3 | 15 | 95 | 1606 | 1229 | 1801 | 2799206 | 2666668 | 3333334 |
| 6 | 934384 | 2 | 17 | 50 | 1094 | 1133 | 0 | 3525539 | 3333335 | 4000001 |
| 7 | 646358 | 1 | 18 | 85 | 1972 | 0 | 0 | 4462150 | 4000002 | 4666668 |
| 8 | 848303 | 3 | 18 | 70 | 1872 | 1201 | 1703 | 5110480 | 4666669 | 5333335 |
| 9 | 672297 | 2 | 6 | 90 | 1750 | 1812 | 0 | 5963559 | 5333336 | 6000002 |
| 10 | 474150 | 1 | 7 | 60 | 1094 | 0 | 0 | 6639418 | 6000003 | 6666669 |
| 11 | 623505 | 3 | 20 | 80 | 1166 | 1283 | 1682 | 7114662 | 6666670 | 7333336 |
| 12 | 605433 | 3 | 20 | 100 | 1145 | 1983 | 1988 | 7742298 | 7333337 | 8000003 |
| 13 | 945535 | 1 | 14 | 95 | 1135 | 0 | 0 | 8352847 | 8000004 | 8666670 |
| 14 | 799644 | 2 | 17 | 100 | 1349 | 1975 | 0 | 9299517 | 8666671 | 9333337 |
| 15 | 271585 | 2 | 7 | 80 | 1249 | 1535 | 0 | 9574426 | 9333338 | 10000004 |
| 16 | 799644 | 2 | 6 | 75 | 1367 | 1137 | 0 | 10376854 | 10000005 | 10666671 |
| 17 | 459194 | 1 | 17 | 55 | 1894 | 0 | 0 | 10838552 | 10666672 | 11333338 |
| 18 | 727779 | 3 | 6 | 100 | 1864 | 1827 | 1775 | 11568225 | 11333339 | 12000005 |

Total number of pulses in waveform = 37

Type 5 Radar Waveform_30

Waveform Num = 30
Num of Bursts = 16
Burst Interval (us) = 750000

| Burst # | Off Time (us) | # Pulses | Chirp (MHz) | PW (us) | Pulse 1 Pri (us) | Pulse 2 Pri (us) | Pulse 3 Pri (us) | Start Loc (us) | Start Burst Interval (us) | End Burst Interval (us) |
|---------|---------------|----------|-------------|---------|------------------|------------------|------------------|----------------|---------------------------|-------------------------|
| 1 | 730129 | 3 | 9 | 85 | 1193 | 1023 | 1125 | 730129 | 0 | 749999 |
| 2 | 275532 | 1 | 20 | 60 | 1219 | 0 | 0 | 1009002 | 750000 | 1499999 |
| 3 | 1185745 | 3 | 17 | 90 | 1717 | 1558 | 1956 | 2195966 | 1500000 | 2249999 |
| 4 | 221131 | 3 | 19 | 85 | 1039 | 1008 | 1158 | 2422328 | 2250000 | 2999999 |
| 5 | 1059344 | 2 | 20 | 70 | 1122 | 1981 | 0 | 3484877 | 3000000 | 3749999 |
| 6 | 1002372 | 2 | 17 | 85 | 1390 | 1585 | 0 | 4490352 | 3750000 | 4499999 |
| 7 | 266860 | 3 | 17 | 55 | 1100 | 1124 | 1728 | 4750187 | 4500000 | 5249999 |
| 8 | 586408 | 3 | 16 | 80 | 1668 | 1693 | 1420 | 5340547 | 5250000 | 5999999 |
| 9 | 1004497 | 3 | 6 | 65 | 1831 | 1999 | 1790 | 6349725 | 6000000 | 6749999 |
| 10 | 1019760 | 2 | 18 | 65 | 1952 | 1110 | 0 | 7375105 | 6750000 | 7499999 |
| 11 | 636120 | 3 | 16 | 95 | 1498 | 1048 | 1168 | 8014287 | 7500000 | 8249999 |
| 12 | 746667 | 3 | 13 | 85 | 1322 | 1514 | 1521 | 8764568 | 8250000 | 8999999 |
| 13 | 505911 | 3 | 5 | 65 | 1530 | 1951 | 1848 | 9274836 | 9000000 | 9749999 |
| 14 | 749240 | 1 | 8 | 70 | 1825 | 0 | 0 | 10029405 | 9750000 | 10499999 |
| 15 | 472118 | 3 | 7 | 55 | 1310 | 1664 | 1296 | 10503348 | 10500000 | 11249999 |
| 16 | 785079 | 1 | 18 | 65 | 1703 | 0 | 0 | 11292697 | 11250000 | 11999999 |

Total number of pulses in waveform = 39



Radar Type 6 - Radar Statistical Performance

| Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection | Trail # | Test Freq. (MHz) | 1=Detection 0=No Detection |
|--------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| 1 | 5251 | 1 | 16 | 5289 | 1 |
| 2 | 5253 | 1 | 17 | 5295 | 1 |
| 3 | 5256 | 1 | 18 | 5298 | 1 |
| 4 | 5259 | 1 | 19 | 5301 | 1 |
| 5 | 5262 | 1 | 20 | 5304 | 1 |
| 6 | 5265 | 1 | 21 | 5307 | 1 |
| 7 | 5268 | 1 | 22 | 5310 | 1 |
| 8 | 5271 | 1 | 23 | 5313 | 1 |
| 9 | 5274 | 1 | 24 | 5316 | 1 |
| 10 | 5277 | 1 | 25 | 5319 | 1 |
| 11 | 5280 | 1 | 26 | 5322 | 1 |
| 12 | 8283 | 1 | 27 | 5325 | 1 |
| 13 | 5286 | 1 | 28 | 5326 | 1 |
| 14 | 5286 | 1 | 29 | 5327 | 1 |
| 15 | 5292 | 1 | 30 | 5330 | 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 | 5253 | 3 | 20 | 5257 | 60 |
| 2 | 5262 | 6 | 51 | 5252 | 153 |
| 13 | 5255 | 39 | 69 | 5276 | 207 |
| 27 | 5278 | 81 | 90 | 5281 | 270 |
| 69 | 5260 | 207 | -- | -- | -- |
| 87 | 5270 | 261 | -- | -- | -- |
| 95 | 5263 | 285 | -- | -- | -- |

| Radar waveform #3 | | | Radar waveform #4 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 2 | 5275 | 6 | 0 | 5287 | 0 |
| 12 | 5254 | 36 | 3 | 5281 | 9 |
| 32 | 5278 | 96 | 6 | 5279 | 18 |
| 44 | 5261 | 132 | 10 | 5250 | 30 |
| 55 | 5252 | 165 | 30 | 5275 | 90 |
| 68 | 5259 | 204 | 40 | 5271 | 120 |
| 99 | 5266 | 297 | 42 | 5284 | 126 |
| -- | -- | -- | 79 | 5266 | 237 |
| -- | -- | -- | 88 | 5256 | 264 |
| -- | -- | -- | 90 | 5287 | 270 |

| Radar waveform #5 | | | Radar waveform #6 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 5 | 5278 | 15 | 7 | 5269 | 21 |
| 18 | 5276 | 54 | 8 | 5273 | 24 |
| 20 | 5266 | 60 | 17 | 5290 | 51 |
| 45 | 5287 | 135 | 36 | 5276 | 108 |
| 49 | 5256 | 147 | 55 | 5277 | 165 |
| 54 | 5281 | 162 | 59 | 5284 | 177 |
| 56 | 5288 | 168 | 73 | 5263 | 219 |
| 73 | 5251 | 219 | 75 | 5265 | 225 |
| 76 | 5273 | 228 | 83 | 5256 | 249 |
| 77 | 5265 | 231 | 89 | 5269 | 267 |
| 78 | 5263 | 234 | -- | -- | -- |
| 79 | 5271 | 237 | -- | -- | -- |
| 83 | 5284 | 249 | -- | -- | -- |
| 85 | 5293 | 255 | -- | -- | -- |
| 90 | 5286 | 270 | -- | -- | -- |
| 97 | 5270 | 291 | -- | -- | -- |

| Radar waveform #7 | | | Radar waveform #8 | | |
|-------------------|-----------------|------------------|-------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 6 | 5259 | 18 | 25 | 5250 | 75 |
| 22 | 5273 | 66 | 29 | 5256 | 87 |
| 25 | 5265 | 75 | 31 | 5258 | 93 |
| 56 | 5283 | 168 | 42 | 5277 | 126 |
| 57 | 5274 | 171 | 59 | 5254 | 177 |
| 64 | 5294 | 192 | 72 | 5270 | 216 |
| 71 | 5288 | 213 | 87 | 5276 | 261 |
| 78 | 5295 | 234 | -- | -- | -- |
| 81 | 5272 | 243 | -- | -- | -- |
| 89 | 5269 | 267 | -- | -- | -- |

| Radar waveform #9 | | | Radar waveform #10 | | |
|-------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 6 | 5277 | 18 | 18 | 5264 | 54 |
| 11 | 5269 | 33 | 22 | 5251 | 66 |
| 25 | 5295 | 75 | 51 | 5280 | 153 |
| 41 | 5283 | 123 | 56 | 5266 | 168 |
| 59 | 5267 | 177 | 72 | 5298 | 216 |
| 66 | 5273 | 198 | 75 | 5273 | 225 |
| 69 | 5250 | 207 | 79 | 5256 | 237 |
| 70 | 5293 | 210 | 84 | 5255 | 252 |
| 71 | 5252 | 213 | 94 | 5300 | 282 |
| 93 | 5291 | 279 | 99 | 5265 | 297 |
| 97 | 5290 | 291 | -- | -- | -- |

| Radar waveform #11 | | | Radar waveform #12 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 10 | 5258 | 30 | 13 | 5290 | 39 |
| 22 | 5267 | 66 | 15 | 5308 | 45 |
| 42 | 5282 | 126 | 37 | 5265 | 111 |
| 45 | 5274 | 135 | 54 | 5272 | 162 |
| 70 | 5261 | 210 | 69 | 5262 | 207 |
| 71 | 5263 | 213 | 71 | 5311 | 213 |
| 96 | 5259 | 288 | 82 | 5304 | 246 |

| Radar waveform #13 | | | Radar waveform #14 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 20 | 5280 | 60 | 27 | 5317 | 81 |
| 23 | 5276 | 69 | 36 | 5296 | 108 |
| 24 | 5313 | 72 | 40 | 5263 | 120 |
| 26 | 5298 | 78 | 48 | 5281 | 144 |
| 36 | 5270 | 108 | 56 | 5305 | 168 |
| 39 | 5305 | 117 | 60 | 5265 | 180 |
| 46 | 5255 | 138 | 67 | 5301 | 201 |
| 60 | 5259 | 180 | 74 | 5318 | 222 |
| 85 | 5260 | 255 | 75 | 5298 | 225 |
| 92 | 5286 | 276 | 96 | 5268 | 288 |

| Radar waveform #15 | | | Radar waveform #16 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 7 | 5266 | 21 | 14 | 5305 | 42 |
| 17 | 5270 | 51 | 16 | 5320 | 48 |
| 20 | 5261 | 60 | 25 | 5319 | 75 |
| 21 | 5283 | 63 | 65 | 5285 | 195 |
| 38 | 5267 | 114 | 61 | 5297 | 183 |
| 52 | 5321 | 156 | 67 | 5271 | 201 |
| 60 | 5264 | 180 | 75 | 5300 | 225 |
| 64 | 5280 | 192 | 88 | 5312 | 264 |
| 74 | 5271 | 222 | -- | -- | -- |
| 95 | 5321 | 285 | -- | -- | -- |

| Radar waveform #17 | | | Radar waveform #18 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 2 | 5311 | 6 | 7 | 5302 | 21 |
| 12 | 5300 | 36 | 11 | 5287 | 33 |
| 36 | 5284 | 108 | 12 | 5308 | 36 |
| 37 | 5281 | 111 | 16 | 5312 | 48 |
| 50 | 5303 | 150 | 17 | 5272 | 51 |
| 55 | 5327 | 165 | 20 | 5275 | 60 |
| 59 | 5307 | 177 | 40 | 5328 | 120 |
| 65 | 5291 | 195 | 68 | 5318 | 204 |
| 66 | 5315 | 198 | 70 | 5315 | 210 |
| 80 | 5278 | 240 | 74 | 5278 | 222 |
| 86 | 5313 | 258 | 67 | 5306 | 201 |
| 88 | 5293 | 264 | 73 | 5298 | 219 |
| 94 | 5321 | 282 | 97 | 5309 | 291 |
| 99 | 5288 | 297 | 98 | 5299 | 294 |

| Radar waveform #19 | | | Radar waveform #20 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 15 | 5293 | 45 | 0 | 5318 | 0 |
| 26 | 5316 | 78 | 11 | 5320 | 33 |
| 56 | 5314 | 168 | 18 | 5296 | 54 |
| 78 | 5315 | 234 | 27 | 5279 | 81 |
| 85 | 5283 | 255 | 43 | 5334 | 129 |
| 97 | 5311 | 291 | 51 | 5316 | 153 |
| 98 | 5323 | 294 | 56 | 5327 | 168 |
| -- | -- | -- | 65 | 5291 | 195 |
| -- | -- | -- | 73 | 5331 | 219 |
| -- | -- | -- | 75 | 5287 | 225 |
| -- | -- | -- | 82 | 5307 | 246 |

| Radar waveform #21 | | | Radar waveform #22 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 1 | 5319 | 3 | 1 | 5320 | 3 |
| 9 | 5303 | 27 | 10 | 5329 | 30 |
| 11 | 5308 | 33 | 18 | 5336 | 54 |
| 14 | 5306 | 42 | 28 | 5317 | 84 |
| 19 | 5290 | 57 | 30 | 5305 | 90 |
| 21 | 5339 | 63 | 34 | 5328 | 102 |
| 30 | 5321 | 90 | 36 | 5341 | 108 |
| 34 | 5318 | 102 | 43 | 5300 | 129 |
| 41 | 5299 | 123 | 44 | 5303 | 132 |
| 52 | 5281 | 156 | 53 | 5294 | 159 |
| 57 | 5297 | 171 | 64 | 5310 | 192 |
| 64 | 5285 | 192 | 70 | 5326 | 210 |
| 80 | 5315 | 240 | 75 | 5304 | 225 |
| 81 | 5296 | 243 | 76 | 5308 | 228 |
| -- | -- | -- | 86 | 5335 | 258 |

| Radar waveform #23 | | | Radar waveform #24 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 3 | 5316 | 9 | 11 | 5314 | 33 |
| 10 | 5287 | 30 | 16 | 5313 | 48 |
| 12 | 5343 | 36 | 21 | 5331 | 63 |
| 27 | 5337 | 81 | 31 | 5336 | 93 |
| 32 | 5344 | 96 | 40 | 5297 | 120 |
| 53 | 5317 | 159 | 49 | 5340 | 147 |
| 68 | 5319 | 204 | 59 | 5303 | 177 |
| 70 | 5325 | 210 | 63 | 5319 | 189 |
| 72 | 5323 | 216 | 78 | 5333 | 234 |
| 83 | 5318 | 249 | 89 | 5329 | 267 |
| 91 | 5338 | 273 | 97 | 5299 | 291 |
| 95 | 5336 | 285 | -- | -- | -- |
| 97 | 5335 | 291 | -- | -- | -- |

| Radar waveform #25 | | | Radar waveform #26 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 0 | 5312 | 0 | 13 | 5347 | 39 |
| 9 | 5301 | 27 | 14 | 5334 | 42 |
| 15 | 5342 | 45 | 20 | 5329 | 60 |
| 20 | 5292 | 60 | 33 | 5295 | 99 |
| 68 | 5324 | 204 | 40 | 5309 | 120 |
| 72 | 5297 | 216 | 49 | 5353 | 147 |
| 96 | 5335 | 288 | 55 | 5318 | 165 |
| 99 | 5299 | 297 | 58 | 5299 | 174 |
| -- | -- | -- | 68 | 5336 | 204 |
| -- | -- | -- | 71 | 5307 | 213 |
| -- | -- | -- | 78 | 5314 | 234 |
| -- | -- | -- | 79 | 5333 | 237 |
| -- | -- | -- | 82 | 5337 | 246 |
| -- | -- | -- | 94 | 5348 | 282 |
| -- | -- | -- | -- | -- | -- |

| Radar waveform #27 | | | Radar waveform #28 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 2 | 5346 | 6 | 5 | 5340 | 15 |
| 3 | 5298 | 9 | 7 | 5349 | 21 |
| 7 | 5326 | 21 | 9 | 5310 | 27 |
| 9 | 5325 | 27 | 27 | 5318 | 81 |
| 19 | 5322 | 57 | 38 | 5306 | 114 |
| 24 | 5309 | 72 | 40 | 5301 | 120 |
| 36 | 5306 | 108 | 52 | 5319 | 156 |
| 37 | 5344 | 111 | 55 | 5311 | 165 |
| 41 | 5308 | 123 | 64 | 5333 | 192 |
| 48 | 5318 | 144 | 74 | 5353 | 222 |
| 70 | 5349 | 210 | 77 | 5342 | 231 |
| 80 | 5323 | 240 | 78 | 5321 | 234 |
| 84 | 5352 | 252 | 84 | 5341 | 252 |

| Radar waveform #29 | | | Radar waveform #30 | | |
|--------------------|-----------------|------------------|--------------------|-----------------|------------------|
| Hopping Number | Frequency (MHz) | Pulse Start (ms) | Hopping Number | Frequency (MHz) | Pulse Start (ms) |
| 2 | 5329 | 6 | 10 | 5300 | 30 |
| 8 | 5322 | 24 | 13 | 5310 | 39 |
| 11 | 5314 | 33 | 14 | 5321 | 42 |
| 15 | 5335 | 45 | 32 | 5322 | 96 |
| 16 | 5316 | 48 | 35 | 5346 | 105 |
| 21 | 5309 | 63 | 52 | 5327 | 156 |
| 31 | 5321 | 93 | 60 | 5348 | 180 |
| 36 | 5349 | 108 | 64 | 5349 | 192 |
| 40 | 5343 | 120 | 65 | 5323 | 195 |
| 47 | 5324 | 141 | 75 | 5338 | 225 |
| 53 | 5318 | 159 | 97 | 5303 | 291 |
| 54 | 5347 | 162 | 99 | 5318 | 297 |
| 60 | 5338 | 180 | -- | -- | -- |
| 66 | 5336 | 198 | -- | -- | -- |
| 74 | 5330 | 222 | -- | -- | -- |
| 84 | 5345 | 252 | -- | -- | -- |
| 90 | 5328 | 270 | -- | -- | -- |
| 93 | 5313 | 279 | -- | -- | -- |
| 98 | 5342 | 294 | -- | -- | -- |
| 99 | 5258 | 297 | -- | -- | -- |

6. CONCLUSION

The data collected relate only the item(s) tested and show that the **Unified Wired-WLAN Walljack** **FCC ID: O9C-BJNGAFB0005** is in compliance with Part 15E of the FCC Rules.

————— The End —————