

DFS MEASUREMENT REPORT

FCC PART 15 Subpart E

FCC ID: TE7AX50

APPLICANT: TP-Link Technologies Co., Ltd.

Application Type: Certification

Product: AX3000 Gigabit Wi-Fi 6 Router

Model No.: Archer AX50, Archer AX3000

Brand Name: tp-link

FCC Classification: Unlicensed National Information Infrastructure (NII)

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

Type of Device: Master Device

Test Date: May 05 ~ 24, 2019

Reviewed By



(Paddy Chen)

Approved By



(Chenz Ker)



The test results relate only to the samples tested.

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

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

Revision History

Report No.	Version	Description	Issue Date	Note
19050114-U3	Rev. 01	Initial Report	05-25-2019	Valid

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§2.1033 General Information

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

Test Facility / Accreditations

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

- MRT facility is a FCC registered (MRT Reg. No. 153292) test facility with the site description report on file and is designated by the FCC as an Accredited Test Film.
- MRT facility is an IC registered (MRT Reg. No. 21723-1) test laboratory with the site description on file at Industry Canada.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (TAF) under the American Association for Laboratory Accreditation Program (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, Taiwan, EU and TELEC Rules.

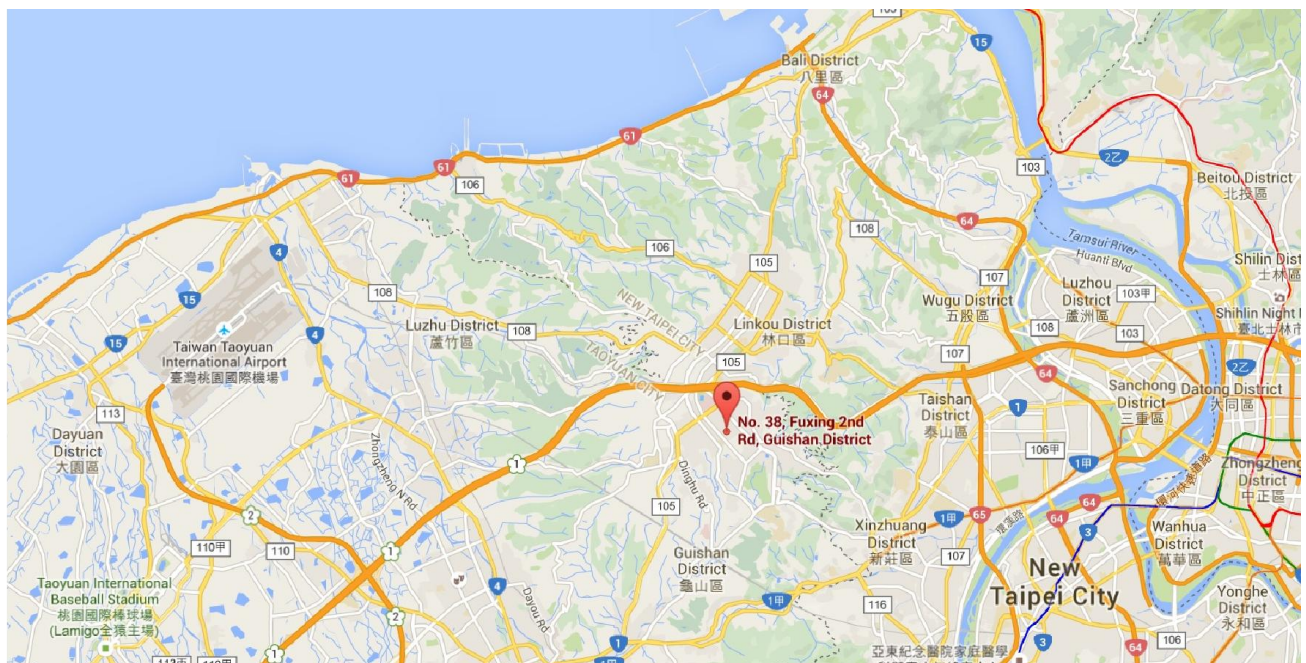
1. INTRODUCTION

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 Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	AX3000 Gigabit Wi-Fi 6 Router
Model No.:	Archer AX50, Archer AX3000
Brand Name:	tp-link
Wi-Fi Specification:	802.11a/b/g/n/ac/ax
Frequency Range	<u>2.4GHz:</u> For 802.11b/g/n-HT20/ax-HE20: 2412 ~ 2462 MHz For 802.11n-HT40/ ax-HE40: 2422 ~ 2452 MHz <u>5GHz:</u> For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5320MHz, 5500~5720MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5310MHz, 5510~5710MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5690MHz, 5775MHz For 802.11ac-VHT160/ax-HE160: 5250MHz, 5570MHz
Type of Modulation	802.11b: DSSS, 802.11a/g/n/ac: OFDM, 802.11ax:OFDMA
Power-on cycle	Requires 60.3 seconds to complete its power-on cycle
Uniform Spreading (For DFS Frequency Band)	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 (MHz)	T _x Paths	Max Antenna Gain (dBi)		Directional Gain (dBi)	
			Ant 0	Ant 1	For Power	For PSD
Dipole Antenna	2400 ~ 2500	2	2.00	2.00	2.00	5.01
	5150 ~ 5850	2	3.00	3.00	3.00	6.01

Note:

- 802.11b support single transmission at Ant 0 port only.
- The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

For CDD transmissions, directional gain is calculated as follows, $N_{ANT} = 2$, $N_{SS} = 1$.

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

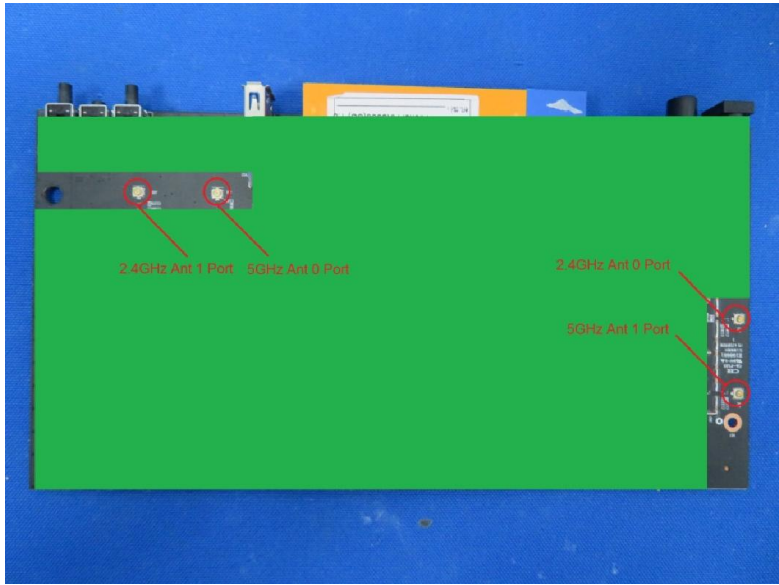
- For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01$;

- For power measurements on IEEE 802.11 devices,

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

2.3. Description of Antenna RF Port

Antenna RF Port				
Software Control Port	2.4GHz RF Port		5GHz RF Port	
	Ant 0	Ant 1	Ant 0	Ant 1
				

2.4. Operating Frequency and Channel List

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

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	--	--	--	--

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	--	--	--	--

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 MHz
138	5690 MHz	--	--	--	--

802.11ac-VHT160/ax-HE160

Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250 MHz	114	5570 MHz	--	--

2.5. Test Channels for this Report

Test Mode	Test Channel	Test Frequency
802.11ax-HE20	100	5500 MHz
802.11ax-HE40	102	5510 MHz
802.11ax-HE80	106	5530 MHz
802.11ax-HE160	50	5250 MHz
802.11ax-HE160	114	5570 MHz

2.6. Test Mode

Test Mode	Mode 1: Communication with Access Point (Client Mode)
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3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

3.1. Applicability

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

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

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

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

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

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

3.2. DFS Devices Requirements

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

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

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

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds 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
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Table 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	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
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 v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.

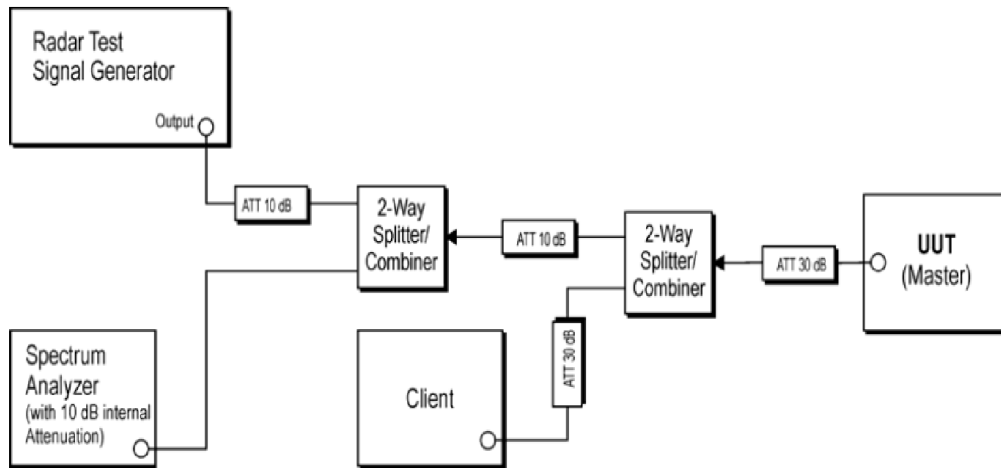


Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters

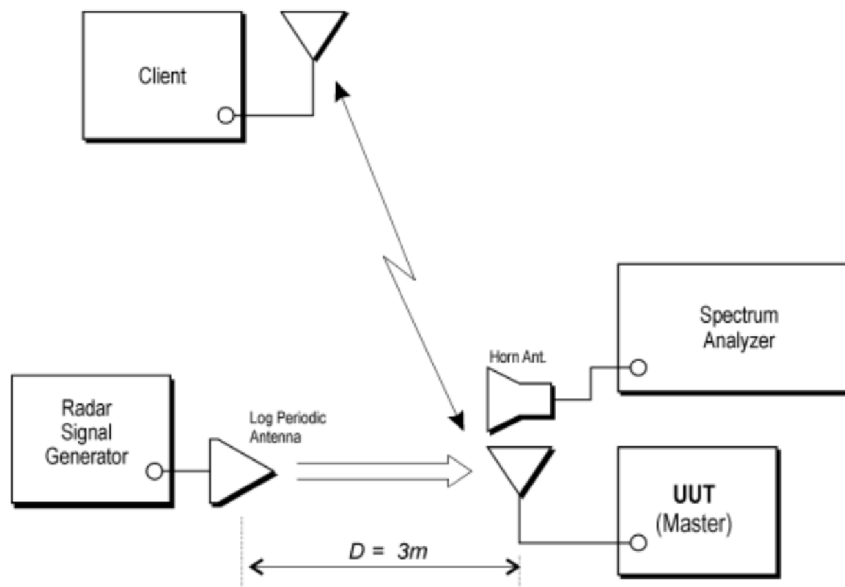


Figure 3-2: Radiated Test Setup where UUT is a Master and Radar Test Waveforms are injected into the UUT

4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection (DFS) - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MRTTWA00012	1 year	2019/07/30
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTSUE06457	1 year	2019/07/19
ESG Vector Signal Generator	Agilent	N5182B	MRTSUE06026	1 year	2020/04/05
Combiner	WOKEN	0120A04208001S	MRTTWE00008	1 year	2019/06/11
Temperature/Humidity Meter	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2019/06/06
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTTWA00003	1 year	2020/04/22

Client Information

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

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

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

5. TEST RESULT

5.1. Summary

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

5.2. Radar Waveform Calibration

5.2.1. Calibration Setup

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

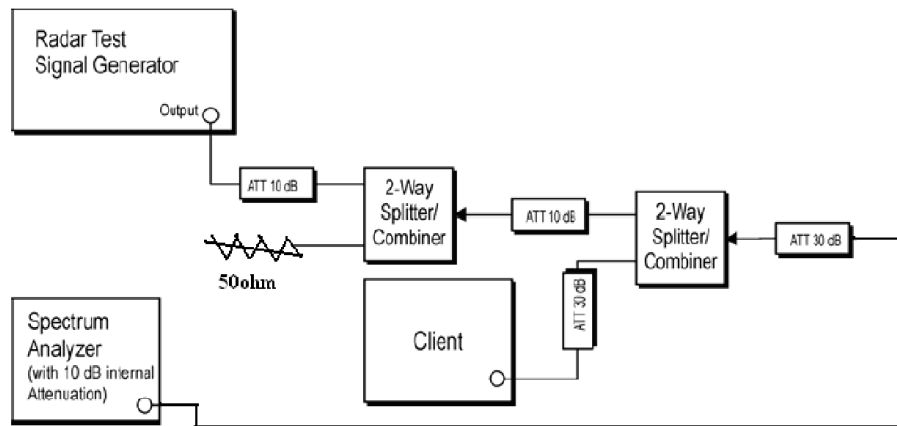


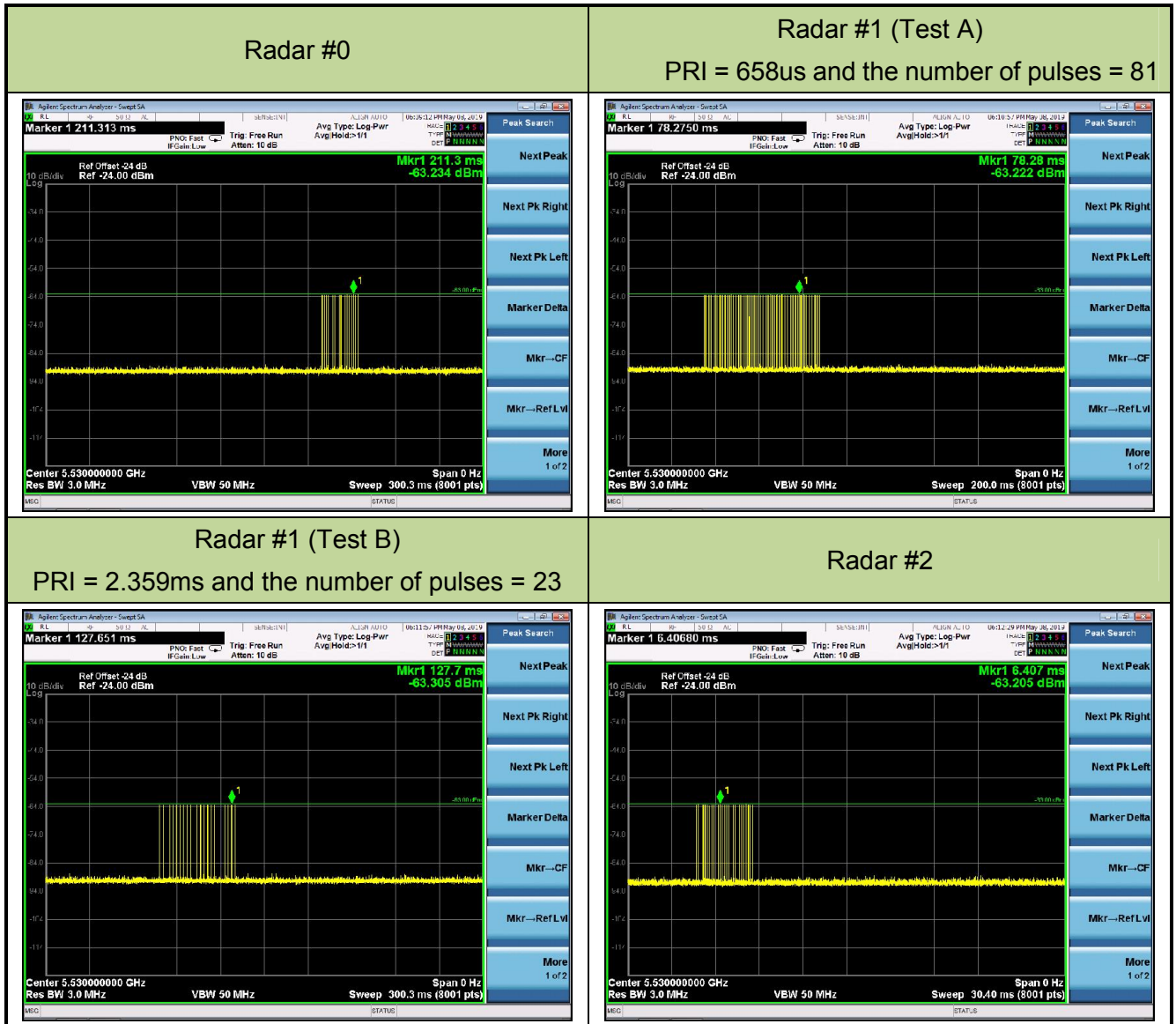
Figure 3-2: Conducted Test Setup

5.2.2. Calibration Procedure

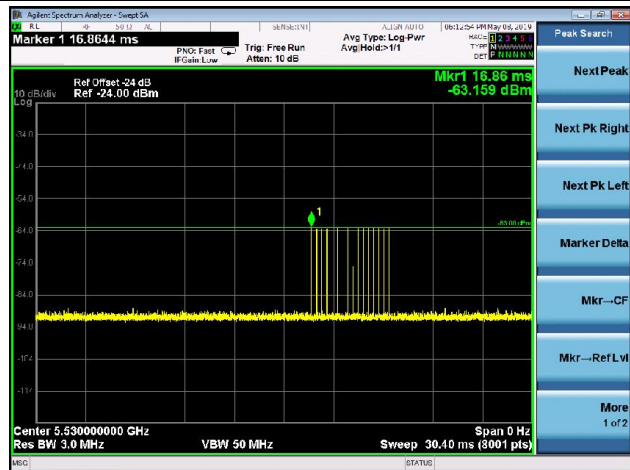
The Interference Radar Detection Threshold Level is $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$ that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was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

5.2.3. Cablibration Result

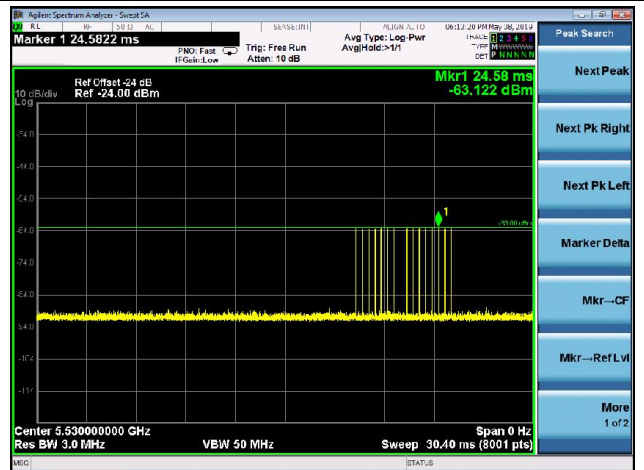
Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/08
Test Item	Radar Waveform Calibration		



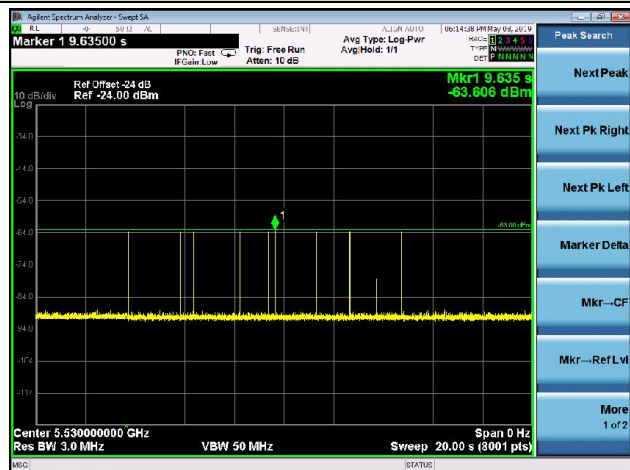
Radars #3



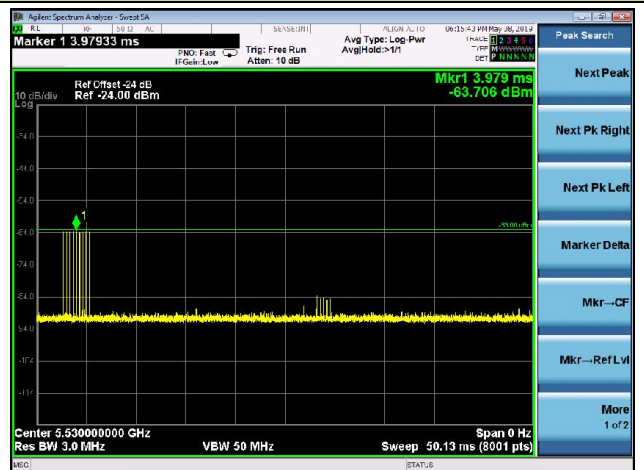
Radars #4



Radars #5

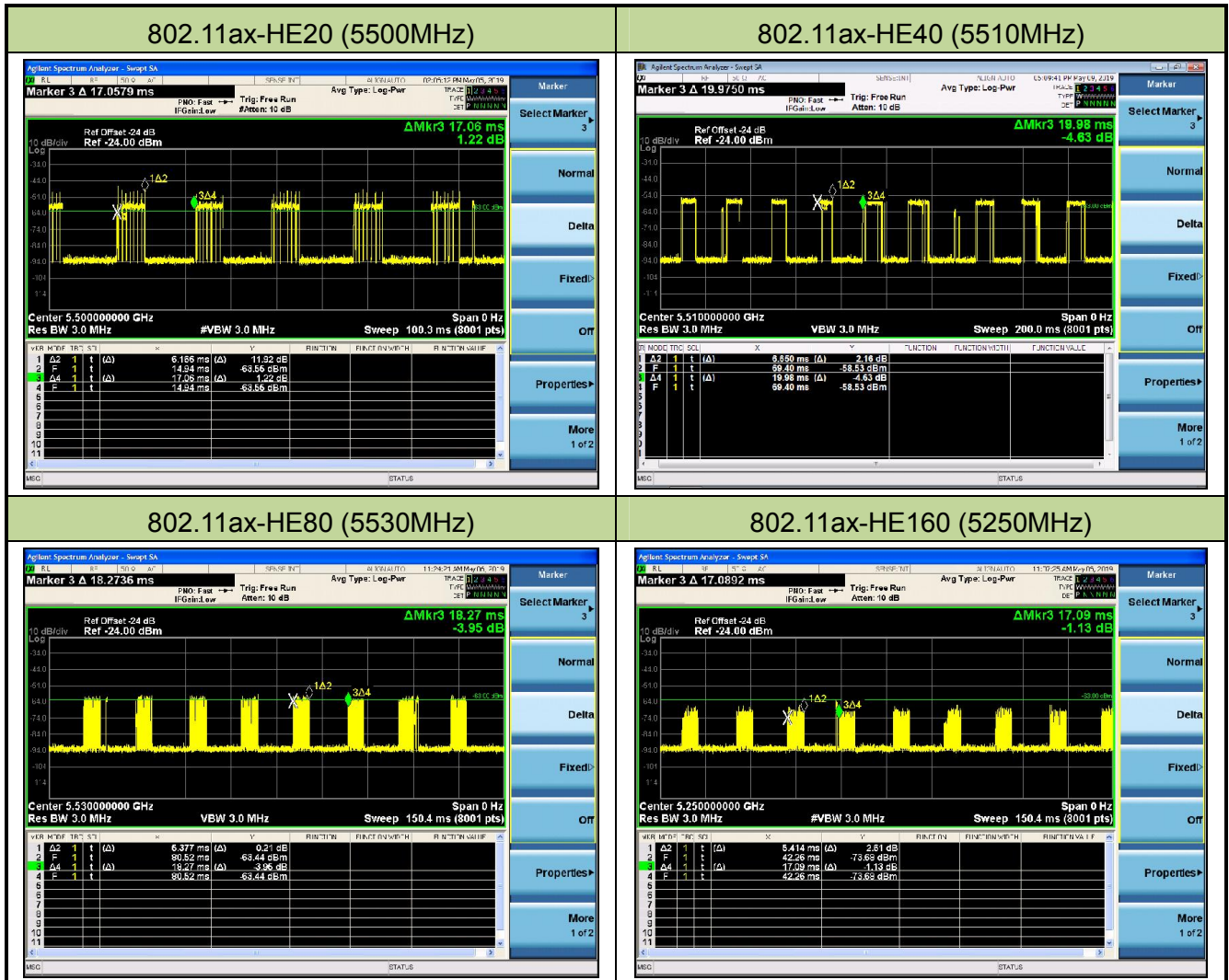


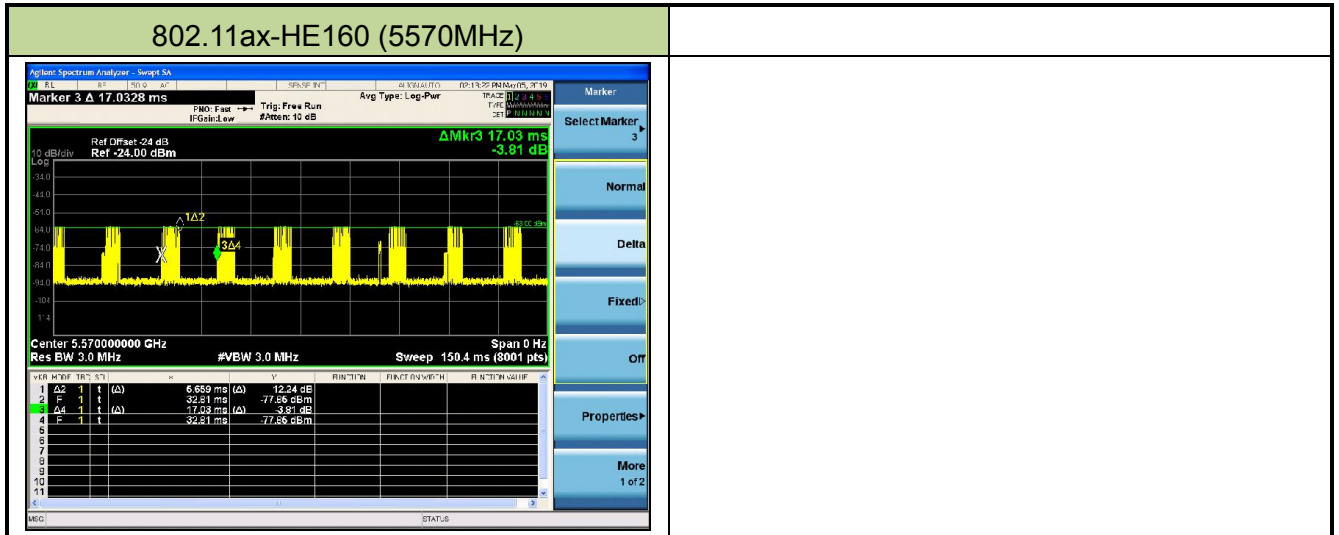
Radars #6



5.2.4. Channel Loading Test Result

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/09
Test Item	Channel Loading		





Test Mode	Test Frequency	Packet ratio	Requirement ratio	Test Result
802.11ax-HE20	5500 MHz	36.14%	≥ 17%	Pass
802.11ax-HE40	5510 MHz	33.28%	≥ 17%	Pass
802.11ax-HE80	5530 MHz	29.43%	≥ 17%	Pass
802.11ax-HE160	5250 MHz	31.68%	≥ 17%	Pass
802.11ax-HE160	5570 MHz	33.23%	≥ 17%	Pass

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

5.3. UNII Detection Bandwidth Measurement

5.3.1. Test Limit

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

5.3.2. Test Procedure

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

5.3.3. Test Result

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Detection Bandwidth (802.11ax-HE20 mode - 5500MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 FL	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510 FH	1	1	1	1	1	1	1	1	1	1	100%
5511	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5500MHz. The 99% channel bandwidth is 18.95MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5510MHz – 5490MHz = 20MHz

Note 3: NII Detection Bandwidth Min. Limit (MHz): 18.95MHz x 100% = 18.95MHz.

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Detection Bandwidth (802.11ax-HE40 mode – 5510MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 FL	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529	1	1	1	1	1	1	1	1	1	1	100%
5530 FH	1	1	1	1	1	1	1	1	1	1	100%
5531	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5510MHz. The 99% channel bandwidth is 37.95MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5530MHz - 5490MHz = 40MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 37.95MHz x 100% = 37.95MHz.

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Detection Bandwidth (802.11ax-HE80 mode – 5530MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 FL	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5566	1	1	1	1	1	1	1	1	1	1	100%
5567	1	1	1	1	1	1	1	1	1	1	100%
5568	1	1	1	1	1	1	1	1	1	1	100%
5569	1	1	1	1	1	1	1	1	1	1	100%
5570 FH	1	1	1	1	1	1	1	1	1	1	100%
5571	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5530MHz. The 99% channel bandwidth is 77.27MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5570MHz - 5490MHz = 80MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 77.27MHz x 100% = 77.27MHz.

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Detection Bandwidth (802.11ax-HE160 mode - 5250MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5250 FL	1	1	1	1	1	1	1	1	1	1	100%
5255	1	1	1	1	1	1	1	1	1	1	100%
5260	1	1	1	1	1	1	1	1	1	1	100%
5265	1	1	1	1	1	1	1	1	1	1	100%
5270	1	1	1	1	1	1	1	1	1	1	100%
5275	1	1	1	1	1	1	1	1	1	1	100%
5280	1	1	1	1	1	1	1	1	1	1	100%
5285	1	1	1	1	1	1	1	1	1	1	100%
5290	1	1	1	1	1	1	1	1	1	1	100%
5295	1	1	1	1	1	1	1	1	1	1	100%
5300	1	1	1	1	1	1	1	1	1	1	100%
5305	1	1	1	1	1	1	1	1	1	1	100%
5310	1	1	1	1	1	1	1	1	1	1	100%
5315	1	1	1	1	1	1	1	1	1	1	100%
5320	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%

Note 1: All NII channels for this device have identical channel bandwidths. Therefore, all DFS testing was done at 5250MHz. The 99% channel bandwidth fall within DFS band is 78.18MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5330MHz - 5250MHz = 80MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 78.18MHz x 100% = 78.18MHz.

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Detection Bandwidth (802.11ax-HE160 mode – 5570MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489	0	0	0	0	0	0	0	0	0	0	0%
5490 FL	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5570	1	1	1	1	1	1	1	1	1	1	100%
5575	1	1	1	1	1	1	1	1	1	1	100%
5580	1	1	1	1	1	1	1	1	1	1	100%
5585	1	1	1	1	1	1	1	1	1	1	100%
5590	1	1	1	1	1	1	1	1	1	1	100%
5595	1	1	1	1	1	1	1	1	1	1	100%
5600	1	1	1	1	1	1	1	1	1	1	100%
5600	1	1	1	1	1	1	1	1	1	1	100%
5610	1	1	1	1	1	1	1	1	1	1	100%

5615	1	1	1	1	1	1	1	1	1	1	100%
5620	1	1	1	1	1	1	1	1	1	1	100%
5625	1	1	1	1	1	1	1	1	1	1	100%
5630	1	1	1	1	1	1	1	1	1	1	100%
5635	1	1	1	1	1	1	1	1	1	1	100%
5640	1	1	1	1	1	1	1	1	1	1	100%
5645	1	1	1	1	1	1	1	1	1	1	100%
5646	1	1	1	1	1	1	1	1	1	1	100%
5647	1	1	1	1	1	1	1	1	1	1	100%
5648	1	1	1	1	1	1	1	1	1	1	100%
5649	1	1	1	1	1	1	1	1	1	1	100%
5650 FH	1	1	1	1	1	1	1	1	1	1	100%
5651	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5570MHz. The 99% channel bandwidth is 156.71MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5650MHz - 5490MHz = 160MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 156.71MHz x 100% = 156.71MHz.

5.4. Initial Channel Availability Check Time Measurement

5.4.1. Test Limit

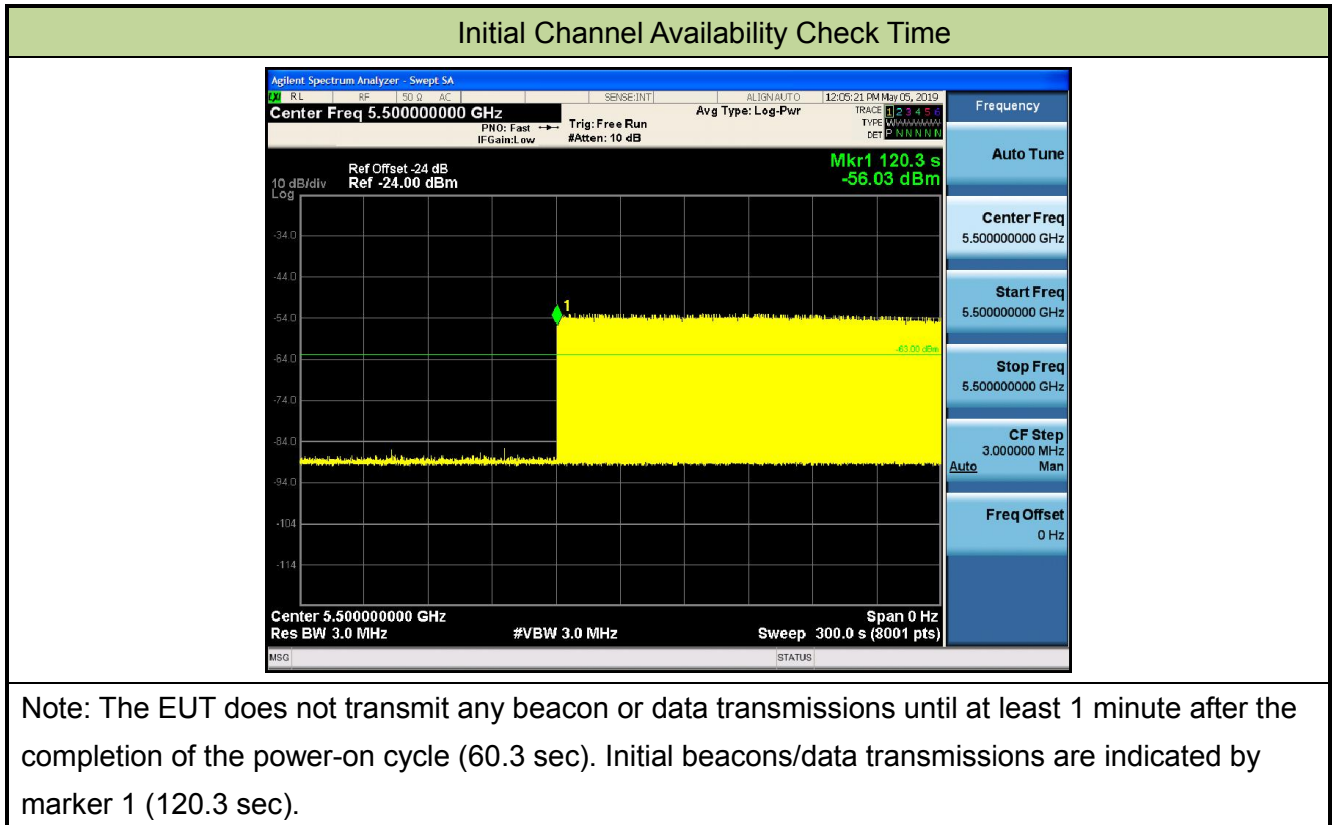
The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute on the intended operating frequency.

5.4.2. Test Procedure

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

5.4.3. Test Result

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Initial Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		



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

5.5.1. Test Limit

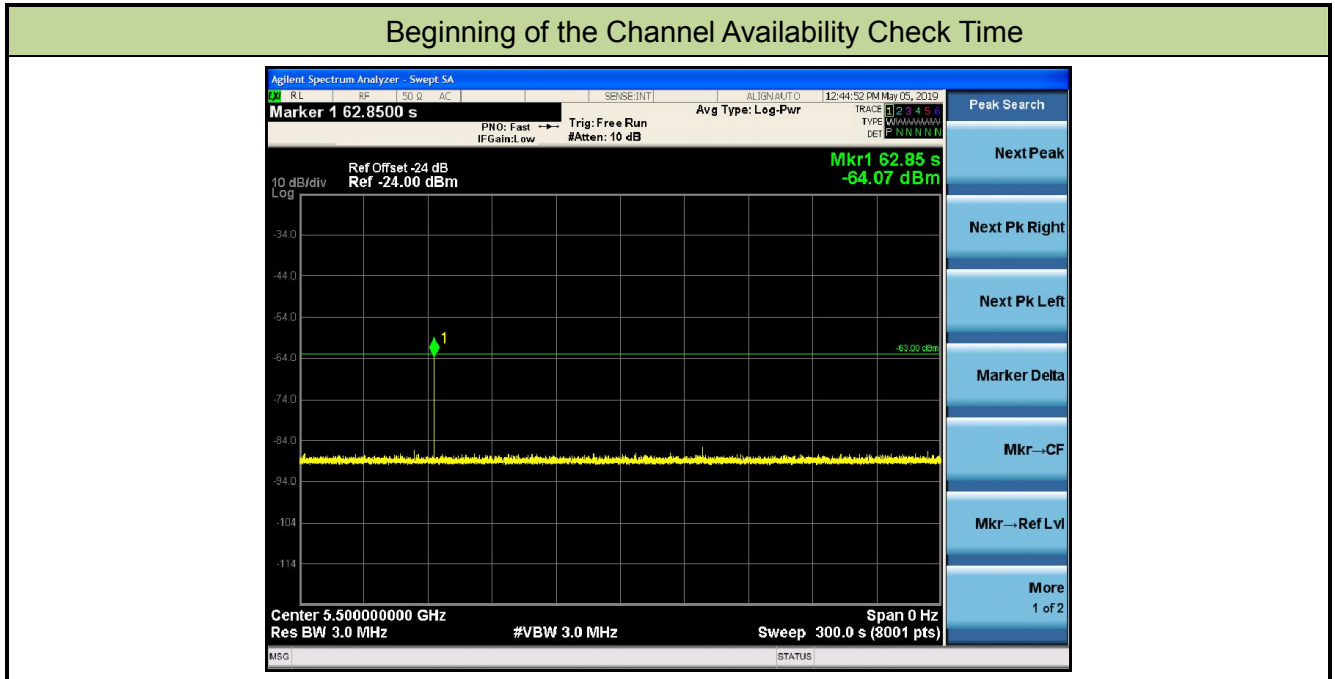
In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.5.2. Test Procedure

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

5.5.3. Test Result

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Beginning of the Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		



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

5.6.1. Test Limit

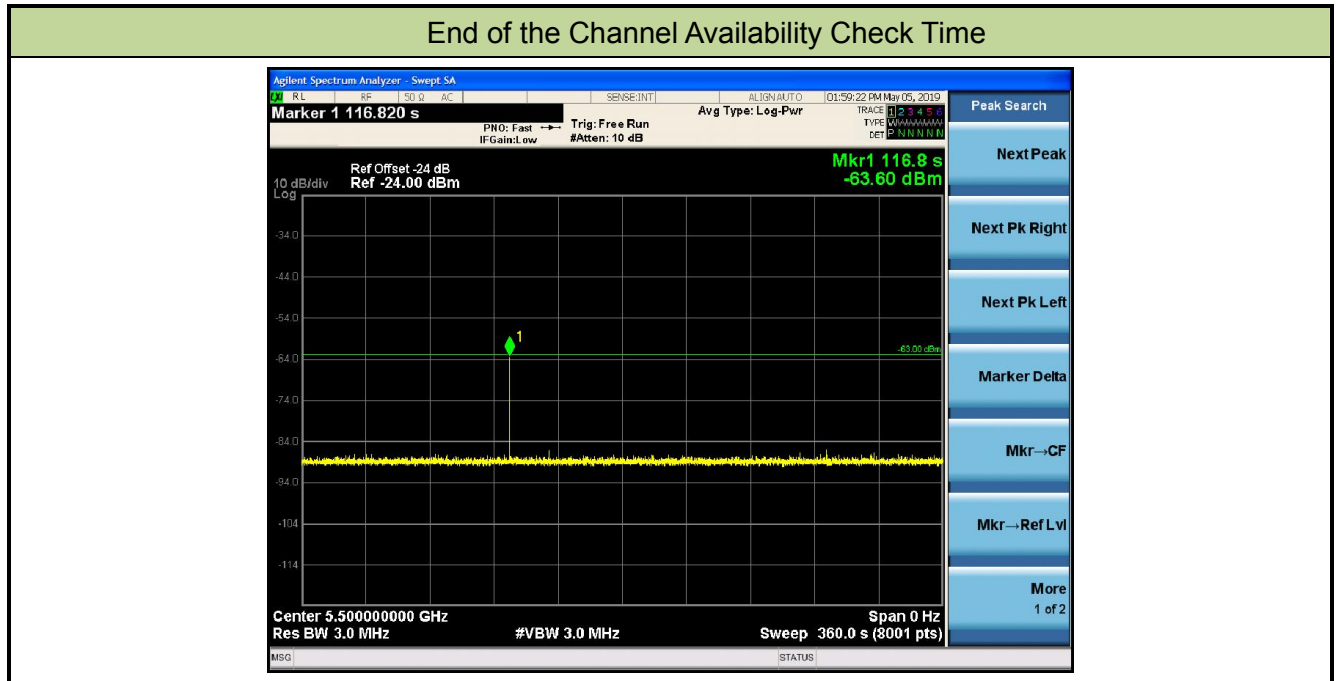
In the end of Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.6.2. Test Procedure

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

5.6.3. Test Result

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	End of the Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		



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

5.7.1. Test Limit

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

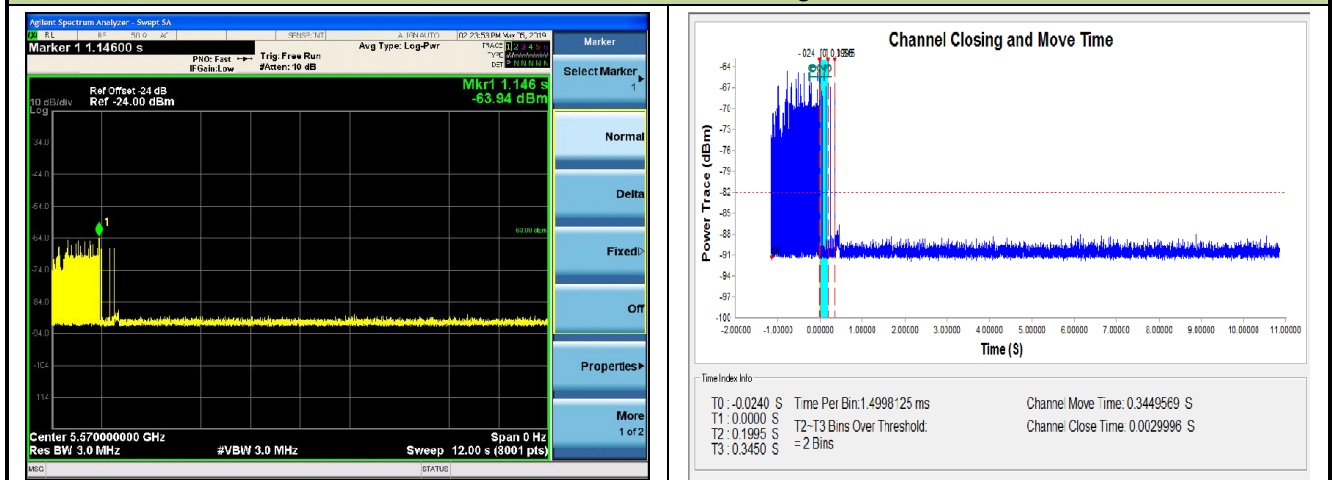
5.7.2. Test Procedure Used

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

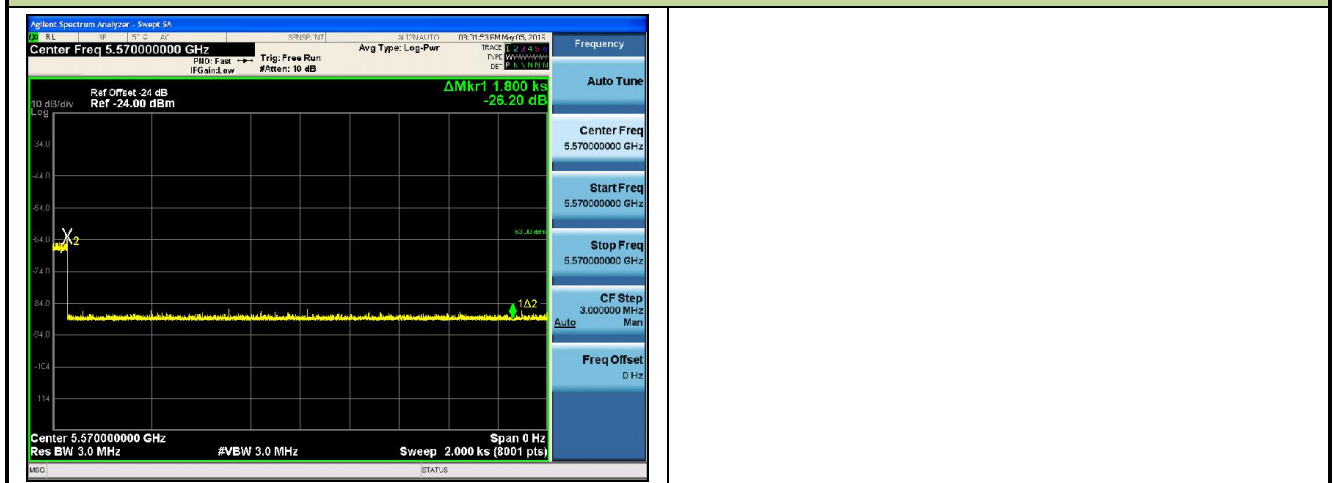
5.7.3. Test Result

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Channel Move Time and Channel Closing Transmission Time (802.11ax-HE160 mode - 5570MHz)		

Channel Move Time and Channel Closing Transmission Time



Non-Occupancy Period



Parameter	Test Result	Limit
	Type 0	
Channel Move Time (s)	0.345s	<10s
Channel Closing Transmission Time (ms) (Note)	3.0ms	< 60ms
Non-Occupancy Period (min)	≥ 30min	≥ 30 min
Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.		

5.8. Statistical Performance Check Measurement

5.8.1. Test Limit

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

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

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: $(P_{d1} + P_{d2} + P_{d3} + P_{d4}) / 4$.

5.8.2. Test Procedure

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

5.8.3. Test Result

Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/05
Test Item	Radar Statistical Performance Check (802.11ax-HE20 – 5500MHz)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490	1	738	72	1
2	5490	1	938	57	1
3	5490	1	838	63	1
4	5490	1	658	81	1
5	5490	1	598	89	1
6	5490	1	3066	18	1
7	5490	1	558	95	1
8	5490	1	898	59	1
9	5490	1	918	58	1
10	5490	1	538	99	1
11	5500	1	778	68	1
12	5500	1	718	74	1
13	5500	1	798	67	1
14	5500	1	698	76	1
15	5500	1	758	70	1
16	5500	1	800	66	1
17	5500	1	1357	39	1
18	5500	1	1977	27	1
19	5500	1	2904	19	1
20	5500	1	1189	45	1
21	5510	1	837	64	1
22	5510	1	539	98	1
23	5510	1	1991	27	1
24	5510	1	1378	39	1
25	5510	1	1602	33	1
26	5510	1	1552	35	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5510	1	1174	45	1
28	5510	1	1394	38	1
29	5510	1	2709	20	1
30	5510	1	1410	38	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	5490	4.1	225	26	1
2	5490	2.8	223	23	1
3	5490	1.9	166	29	1
4	5490	1.2	206	27	1
5	5490	4.8	230	26	1
6	5490	1.6	196	25	1
7	5490	1.6	195	26	1
8	5490	3.8	153	27	1
9	5490	1.0	176	25	1
10	5490	2.5	223	25	1
11	5500	3.3	225	24	1
12	5500	1.3	184	26	1
13	5500	3.7	193	23	1
14	5500	3.2	153	26	1
15	5500	2.5	205	23	1
16	5500	4.2	185	29	1
17	5500	4.8	170	23	1
18	5500	2.3	194	24	1
19	5500	3.1	211	23	1
20	5500	4.0	197	26	1
21	5510	2.7	173	28	1
22	5510	1.5	207	26	1
23	5510	2.9	156	25	1
24	5510	4.2	155	23	1
25	5510	4.9	175	26	1
26	5510	2.1	184	28	1
27	5510	4.0	222	29	1
28	5510	3.0	200	23	1
29	5510	3.9	151	24	1
30	5510	2.5	157	27	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	5490	8.6	441	16	1
2	5490	8.0	266	16	1
3	5490	6.2	314	17	1
4	5490	8.0	254	18	1
5	5490	9.5	323	18	1
6	5490	10.0	357	17	1
7	5490	8.0	256	17	1
8	5490	9.1	445	17	1
9	5490	7.5	375	18	1
10	5490	9.4	491	16	1
11	5500	8.8	275	16	1
12	5500	10.0	434	17	1
13	5500	9.8	352	16	1
14	5500	6.7	467	17	1
15	5500	9.6	256	17	1
16	5500	8.3	296	17	1
17	5500	8.3	266	16	1
18	5500	9.2	309	17	1
19	5500	8.9	327	16	1
20	5500	9.3	493	16	1
21	5510	6.7	367	16	1
22	5510	7.8	467	17	1
23	5510	7.4	487	17	1
24	5510	8.8	475	17	1
25	5510	7.3	258	16	1
26	5510	6.0	309	18	1
27	5510	8.5	454	17	1
28	5510	8.9	495	17	1
29	5510	8.2	490	17	1
30	5510	7.8	449	18	1
Detection Percentage (%)					100%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490	16.5	252	12	1
2	5490	16.2	417	14	1
3	5490	17.6	292	13	1
4	5490	12.7	459	15	1
5	5490	18.4	351	14	1
6	5490	16.4	393	15	1
7	5490	11.1	423	14	1
8	5490	17.4	477	14	1
9	5490	16.3	352	14	1
10	5490	11.5	276	16	1
11	5500	14.5	421	16	1
12	5500	18.2	321	12	1
13	5500	12.0	362	12	1
14	5500	14.4	310	12	1
15	5500	18.0	423	12	1
16	5500	11.3	310	16	1
17	5500	14.9	490	16	1
18	5500	11.7	260	15	1
19	5500	17.8	491	14	1
20	5500	17.0	402	16	1
21	5510	19.6	411	16	1
22	5510	12.7	397	13	1
23	5510	12.5	312	15	1
24	5510	15.9	272	16	1
25	5510	18.8	375	13	1
26	5510	13.5	457	15	1
27	5510	16.0	427	13	1
28	5510	12.2	438	13	1
29	5510	19.7	260	16	1
30	5510	17.6	391	12	1
Detection Percentage (%)					100%

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

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



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	5497.6	1	16	5500.0	1
2	5492.0	1	17	5500.0	1
3	5493.6	1	18	5500.0	1
4	5493.2	1	19	5500.0	1
5	5496.8	1	20	5500.0	1
6	5494.8	1	21	5506.0	1
7	5492.4	1	22	5503.2	1
8	5494.0	1	23	5508.0	1
9	5495.6	1	24	5504.4	1
10	5497.2	1	25	5506.4	1
11	5500.0	1	26	5505.2	1
12	5500.0	1	27	5507.6	1
13	5500.0	1	28	5506.8	1
14	5500.0	1	29	5502.4	1
15	5500.0	1	30	5502.8	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_1

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	1062461	3	19	75	1526	1970	1957	1062461	0	1090908
2	720091	1	19	55	1557	0	0	1788005	1090909	2181817
3	1083446	2	19	55	1409	1823	0	2873008	2181818	3272726
4	1001234	3	19	60	1999	1532	1453	3877474	3272727	4363635
5	492285	2	19	95	1186	1209	0	4374743	4363636	5454544
6	1507439	1	19	70	1597	0	0	5884577	5454545	6545453
7	1735469	1	19	90	1527	0	0	7621643	6545454	7636362
8	768926	1	19	65	1773	0	0	8392096	7636363	8727271
9	1280442	3	19	80	1408	1419	1196	9674311	8727272	9818180
10	284319	2	19	95	1315	1455	0	9962653	9818181	10909089
11	1990535	3	19	50	1066	1203	1743	11955958	10909090	11999998

Total number of pulses in waveform = 22

**Type 5 Radar Waveform_2**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	147707	1	5	75	1862	0	0	147707	0	857142
2	1114145	1	5	50	1900	0	0	1263714	857143	1714285
3	643145	1	5	85	1695	0	0	1908759	1714286	2571428
4	1067098	2	5	75	1016	1167	0	2977552	2571429	3428571
5	758243	3	5	50	1579	1044	1531	3737978	3428572	4285714
6	797632	1	5	60	1668	0	0	4539764	4285715	5142857
7	702235	1	5	60	1308	0	0	5243667	5142858	6000000
8	1482704	1	5	75	1435	0	0	6727679	6000001	6857143
9	964163	3	5	85	1913	1785	1463	7693277	6857144	7714286
10	352324	2	5	55	1120	1869	0	8050762	7714287	8571429
11	952568	3	5	60	1486	1496	1213	9006319	8571430	9428572
12	664803	1	5	95	1695	0	0	9675317	9428573	10285715
13	1207498	2	5	65	1230	1425	0	10884510	10285716	11142858
14	936537	3	5	85	1403	1512	1496	11823702	11142859	12000001

Total number of pulses in waveform = 25

Type 5 Radar Waveform_3Num 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	1163568	1	9	65	1120	0	0	1163568	0	1499999
2	1689115	3	9	75	1954	1506	1519	2853803	1500000	2999999
3	613915	1	9	60	1139	0	0	3472697	3000000	4499999
4	1719965	1	9	65	1731	0	0	5193801	4500000	5999999
5	1975904	2	9	60	1395	1538	0	7171436	6000000	7499999
6	1514717	3	9	95	1973	1715	1401	8689086	7500000	8999999
7	1411542	3	9	85	1492	1082	1076	10105717	9000000	10499999
8	789706	1	9	100	1570	0	0	10899073	10500000	11999999

Total number of pulses in waveform = 15

Type 5 Radar Waveform_4Num of Bursts = 18
Burst Interval (us)= 866667

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	180259	2	8	95	1654	1923	0	180259	0	666666
2	842143	3	8	60	1670	1514	1347	1025979	666667	1333333
3	456462	3	8	90	1145	1337	1300	1488872	1333334	2000000
4	852938	3	8	60	1448	1216	1611	2343592	2000001	2666667
5	621948	3	8	75	1776	1709	1288	2969615	2666668	3333334
6	591362	2	8	90	1893	1489	0	3565930	3333335	4000001
7	628638	2	8	100	1788	1801	0	4197950	4000002	4666668
8	1100110	2	8	50	1781	1848	0	5301649	4666669	5333335
9	380027	2	8	90	1861	1277	0	5685305	5333336	6000002
10	826894	2	8	85	1510	1575	0	6515337	6000003	6666669
11	298608	3	8	55	1614	1829	1200	6815030	6666670	7333336
12	767522	1	8	80	1791	0	0	7587195	7333337	8000003
13	609423	3	8	90	1323	1811	1672	8198409	8000004	8666670
14	942253	1	8	65	1493	0	0	9145468	8666671	9333337
15	299589	1	8	50	1402	0	0	9446550	9333338	10000004
16	910035	2	8	80	1219	1186	0	10357987	10000005	10666671
17	440374	1	8	75	1305	0	0	10800766	10666672	11333338
18	924971	1	8	80	1160	0	0	11727042	11333339	12000005

Total number of pulses in waveform = 37



Type 5 Radar Waveform_5

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	736635	3	17	55	1668	1612	1387	736635	0	799999
2	169411	2	17	90	1009	1151	0	910713	800000	1599999
3	745043	2	17	65	1837	1150	0	1657916	1600000	2399999
4	1133419	2	17	90	1361	1356	0	2794322	2400000	3199999
5	916284	1	17	75	1903	0	0	3713323	3200000	3999999
6	400778	1	17	65	1134	0	0	4116004	4000000	4799999
7	816120	2	17	95	1147	1064	0	4933258	4800000	5599999
8	1311377	3	17	85	1876	1848	1291	6246846	5600000	6399999
9	266194	3	17	55	1393	1096	1957	6518055	6400000	7199999
10	699196	1	17	60	1175	0	0	7221697	7200000	7999999
11	1429282	2	17	90	1443	1502	0	8652154	8000000	8799999
12	526313	1	17	65	1715	0	0	9181412	8800000	9599999
13	436057	2	17	75	1079	1899	0	9619184	9600000	10399999
14	1097898	1	17	100	1312	0	0	10720060	10400000	11199999
15	877046	1	17	80	1012	0	0	11598418	11200000	11999999

Total number of pulses in waveform = 27

Type 5 Radar Waveform_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	493501	2	12	55	1373	1570	0	493501	0	631578
2	731741	2	12	90	1452	1070	0	1228185	631579	1263157
3	599440	1	12	95	1395	0	0	1830147	1263158	1894736
4	262591	2	12	70	1353	1778	0	2094233	1894737	2526315
5	538043	1	12	70	1742	0	0	2635417	2526316	3157894
6	678920	3	12	70	1123	1573	1766	3316079	3157895	3789473
7	530543	2	12	95	1291	1777	0	3851084	3789474	4421052
8	978714	1	12	50	1276	0	0	4832866	4421053	5052631
9	374019	2	12	75	1883	1959	0	5208161	5052632	5684210
10	963375	1	12	80	1409	0	0	6175378	5684211	6315789
11	188596	2	12	90	1097	1486	0	6365383	6315790	6947368
12	744564	1	12	95	1353	0	0	7112610	6947369	7578947
13	616667	1	12	85	1720	0	0	7730529	7578948	8210526
14	643223	3	12	80	1337	1589	1188	8375472	8210527	8842105
15	683719	2	12	90	1551	1543	0	9063305	8842106	9473684
16	789081	1	12	55	1627	0	0	9855480	9473685	10105263
17	769270	1	12	70	1543	0	0	10626377	10105264	10736842
18	187733	1	12	80	1386	0	0	10815653	10736843	11368421
19	736572	3	12	90	1351	1954	1746	11653561	11368422	12000000

Total number of pulses in waveform = 32

Type 5 Radar Waveform_7

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	223640	3	6	75	1066	1585	1904	223640	0	857142
2	1232974	2	6	75	1228	1342	0	1461169	857143	1714285
3	266588	1	6	50	1899	0	0	1730327	1714286	2571428
4	1456782	2	6	60	1589	1351	0	3189008	2571429	3428571
5	1033432	1	6	80	1960	0	0	4225330	3428572	4285714
6	58486	1	6	95	1481	0	0	4285826	4285715	5142857
7	1197209	2	6	90	1803	1918	0	5484516	5142858	6000000
8	666459	3	6	95	1641	1524	1591	6154696	6000001	6857143
9	1228040	1	6	60	1512	0	0	7387492	6857144	7714286
10	355894	3	6	60	1790	1174	1098	7744898	7714287	8571429
11	1292644	1	6	55	1272	0	0	9041604	8571430	9428572
12	1023248	1	6	80	1529	0	0	10066124	9428573	10285715
13	241701	3	6	75	1118	1274	1480	10309354	10285716	11142858
14	910385	1	6	90	1552	0	0	11223611	11142859	12000001

Total number of pulses in waveform = 25



Type 5 Radar Waveform_8

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	336961	1	10	80	1767	0	0	336961	0	705881
2	598436	2	10	70	1780	1912	0	937184	705882	1411763
3	1089882	1	10	80	1955	0	0	2030738	1411764	2117645
4	415648	3	10	85	1470	1827	1944	2448341	2117646	2823627
5	386798	3	10	100	1131	1258	1714	2840380	2823628	3529409
6	785570	2	10	100	1113	1640	0	3630053	3529410	4235291
7	990766	1	10	65	1250	0	0	4623572	4235292	4941173
8	892772	3	10	75	1140	1589	1272	5517594	4941174	5647055
9	444855	1	10	100	1962	0	0	5966450	5647056	6352937
10	561445	3	10	80	1703	1693	1337	6529857	6352938	7058819
11	1139974	3	10	55	1116	1687	1710	7674564	7058820	7784701
12	316876	2	10	70	1878	1494	0	7995953	7784702	8470583
13	491659	3	10	55	1333	1136	1250	8490984	8470584	9178465
14	1192092	1	10	90	1990	0	0	9686795	9178466	9882347
15	199403	3	10	85	1215	1251	1372	9888188	9882348	10588229
16	1025524	1	10	100	1422	0	0	10917550	10588230	11294111
17	758897	1	10	90	1065	0	0	11677869	11294112	11999993

Total number of pulses in waveform = 34

Type 5 Radar Waveform_9

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	368228	2	14	65	1004	1683	0	368228	0	1199999
2	846356	2	14	55	1338	1953	0	1217271	1200000	2399999
3	1963953	2	14	75	1538	1875	0	3184575	2400000	3599999
4	805125	2	14	75	1340	1446	0	3993163	3600000	4799999
5	933830	3	14	65	1361	1671	1664	4929779	4800000	5999999
6	1819297	3	14	95	1238	1308	1506	6753772	6000000	7199999
7	977149	1	14	70	1829	0	0	7734973	7200000	8399999
8	675119	1	14	100	1292	0	0	8411921	8400000	9599999
9	2113456	2	14	100	1549	1621	0	10526669	9600000	10799999
10	476019	2	14	95	1011	1006	0	11005858	10800000	11999999

Total number of pulses in waveform = 20

Type 5 Radar Waveform_10

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	142915	3	18	90	1787	1152	1381	142915	0	923076
2	1677714	1	18	55	1446	0	0	1824949	923077	1846153
3	578643	3	18	85	1923	1407	1383	2405038	1846154	2769230
4	498140	1	18	70	1639	0	0	2907891	2769231	3692307
5	1381263	3	18	85	1586	1740	1167	4290793	3692308	4615384
6	834230	2	18	75	1634	1155	0	5129516	4615385	5538461
7	576514	2	18	95	1265	1082	0	5708819	5538462	6461538
8	1454017	3	18	55	1127	1089	1259	7165183	6461539	7384615
9	344649	2	18	65	1754	1263	0	7513307	7384616	8307692
10	1532658	1	18	60	1797	0	0	9048982	8307693	9230769
11	380470	3	18	65	1718	1578	1640	9431249	9230770	10153846
12	1224988	1	18	90	1970	0	0	10661173	10153847	11076923
13	934361	2	18	70	1006	1449	0	11597504	11076924	12000000

Total number of pulses in waveform = 27



Type 5 Radar Waveform_11

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	1119094	3	6	50	1177	1849	1888	90566	0	600000
2	224688	1	6	50	1572	0	0	1154374	600000	1199999
3	687220	3	6	90	1059	1974	1751	1390694	1200000	1799999
4	039904	3	6	50	1431	1897	1183	2072638	1800000	2399999
5	581960	3	6	50	1312	1260	1893	2717053	2400000	2899999
6	819327	3	6	75	1019	1774	1005	3303268	3000000	3599999
7	557708	2	6	95	1909	1035	0	4126393	3600000	4199999
8	201283	3	6	90	1504	1851	1620	4686445	4200000	4799999
9	731087	3	6	95	1225	1208	1785	4892700	4800000	5099999
10	584409	3	6	50	1544	1081	1742	5628010	5400000	5999999
11	678614	1	6	75	1258	0	0	6216786	6000000	6599999
12	487523	3	6	85	1506	1895	1961	6896668	6600000	7199999
13	730485	2	6	80	1676	1974	0	7359543	7200000	7799999
14	890824	1	6	75	1840	0	0	8093678	7800000	8399999
15	184403	2	6	90	1261	1453	0	8856142	8400000	8999999
16	906594	1	6	75	1432	0	0	9143269	9000000	9599999
17	341312	1	6	100	1513	0	0	10051285	9600000	10199999
18	784343	3	6	95	1011	1621	1171	10394110	10200000	10799999
19	353068	2	6	85	1005	1521	0	11182356	10800000	11399999
20		3	6	100	1028	1963	1865	11537850	11400000	11999999
Total number of pulses in waveform = 46 *****										

Type 5 Radar Waveform_12

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	436422	2	19	55	1856	1837	0	436422	0	923076
2	607759	1	19	70	1491	0	0	1047874	923077	1846153
3	1073172	3	19	50	1736	1888	1610	2122537	1846154	2769230
4	895721	3	19	90	1315	1877	1724	3023542	2769231	3692307
5	1072577	1	19	75	1914	0	0	4101035	3692308	4615384
6	608071	3	19	90	1636	1961	1084	4711020	4615385	5538461
7	1371314	3	19	100	1542	1966	1964	6087015	5538462	6461538
8	971466	2	19	75	1598	1151	0	7063953	6461539	7384615
9	537146	3	19	100	1982	1097	1398	7603848	7384616	8307692
10	933633	2	19	85	1380	1367	0	8541958	8307693	9230769
11	1107786	2	19	95	1065	1702	0	9652491	9230770	10153846
12	1187925	1	19	90	1669	0	0	10843183	10153847	11076923
13	786850	1	19	100	1496	0	0	11631702	11076924	12000000
Total number of pulses in waveform = 27 *****										

Type 5 Radar Waveform_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	473662	1	18	65	1422	0	0	473662	0	666666
2	729321	1	18	80	1698	0	0	1204405	666667	1333333
3	671008	2	18	75	1544	1100	0	1877111	1333334	2000000
4	126458	1	18	85	1117	0	0	2006213	2000001	2666667
5	829478	1	18	55	1128	0	0	2836808	2666668	3333334
6	727757	3	18	80	1268	1287	1178	3565693	3333335	4000001
7	920451	1	18	100	1093	0	0	4489677	4000002	4666668
8	244999	1	18	80	1733	0	0	4735969	4666669	5333335
9	1212977	3	18	85	1224	1849	1895	5950679	5333336	6000002
10	573094	2	18	60	1380	1267	0	6528741	6000003	6666669
11	398208	1	18	85	1848	0	0	8029596	6666670	7333336
12	746807	3	18	50	1244	1279	1256	7678251	7333337	8000003
13	765121	3	18	85	1933	1939	1418	8447151	8000004	8666670
14	308186	1	18	75	1678	0	0	8758627	8666671	9333337
15	1040781	1	18	100	1440	0	0	9801085	9333338	10000004
16	577461	1	18	100	1217	0	0	10379587	10000005	10666671
17	607148	1	18	95	1392	0	0	10968352	10666672	11333338
18	893474	3	18	50	1015	1049	1819	11883218	11333339	12000005
Total number of pulses in waveform = 30 *****										

**Type 5 Radar Waveform_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	1476001	2	17	75	1017	1769	0	1476001	0	1499999
2	787038	3	17	70	1918	1116	1167	2265825	1500000	2999999
3	2094451	3	17	55	1347	1377	1053	4364477	3000000	4499999
4	738610	1	17	75	1294	0	0	5106864	4500000	5999999
5	1986587	3	17	70	1690	1713	1706	7094745	6000000	7499999
6	870288	1	17	100	1709	0	0	7970142	7500000	8999999
7	1474674	2	17	50	1088	1309	0	9446525	9000000	10499999
8	2377490	2	17	55	1766	1507	0	11826412	10500000	11999999

Total number of pulses in waveform = 17

Type 5 Radar Waveform_15

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	584380	1	5	65	1754	0	0	584380	0	1199999
2	1389309	1	5	100	1765	0	0	1975443	1200000	2399999
3	1244859	3	5	55	1606	1651	1150	3222067	2400000	3599999
4	835467	1	5	80	1306	0	0	4061941	3600000	4799999
5	1468485	1	5	70	1209	0	0	5531732	4800000	5999999
6	526418	3	5	70	1459	1937	1692	6059359	6000000	7199999
7	1673414	2	5	80	1904	1237	0	7737861	7200000	8399999
8	785023	1	5	50	1331	0	0	8526025	8400000	9599999
9	1730096	3	5	55	1577	1113	1197	10257452	9600000	10799999
10	1002542	2	5	65	1862	1832	0	11263881	10800000	11999999

Total number of pulses in waveform = 18

Type 5 Radar Waveform_16

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	1085759	2	10	90	1213	1255	0	1085759	0	1090908
2	745607	2	10	85	1596	1878	0	1833834	1090909	2181817
3	887587	1	10	75	1722	0	0	2724895	2181818	3272726
4	1056476	3	10	75	1529	1727	1510	3783093	3272727	4363635
5	1587170	2	10	70	1349	1311	0	5375029	4363636	5454544
6	863809	3	10	70	1824	1135	1594	6241498	5454545	6545453
7	1184699	3	10	90	1823	1717	1175	7430750	6545454	7636362
8	1163242	2	10	95	1629	1609	0	8598707	7636363	8727271
9	174095	2	10	70	1430	1525	0	8776040	8727272	9818180
10	2060999	3	10	85	1521	1345	1180	10839994	9818181	10909089
11	803991	1	10	85	1678	0	0	11648031	10909090	11999998

Total number of pulses in waveform = 24

**Type 5 Radar Waveform_17**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	4767	1	12	100	1506	0	0	4767	0	857142
2	916601	1	12	65	1307	0	0	922874	857143	1714285
3	1274955	2	12	55	1126	1801	0	2199136	1714286	2571428
4	705716	3	12	70	1415	1220	1824	2907779	2571429	3428571
5	533670	1	12	100	1839	0	0	3445908	3428572	4285714
6	1039956	2	12	90	1334	1397	0	4487703	4285715	5142857
7	1222835	1	12	95	1748	0	0	5713269	5142858	6000000
8	660657	1	12	100	1139	0	0	6375674	6000001	6857143
9	746920	1	12	75	1338	0	0	7123733	6857144	7714286
10	747632	3	12	70	1227	1586	1758	7872703	7714287	8571429
11	921935	1	12	50	1484	0	0	8799209	8571430	9428572
12	1097788	2	12	70	1173	1159	0	9898481	9428573	10285715
13	1134257	1	12	55	1359	0	0	11035070	10285716	11142858
14	451518	2	12	70	1145	1445	0	11487947	11142859	12000001

Total number of pulses in waveform = 22

Type 5 Radar Waveform_18Num 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	1066932	1	14	50	1640	0	0	1066932	0	1199999
2	1194609	2	14	55	1244	1840	0	2263181	1200000	2399999
3	290374	3	14	100	1061	1088	1419	2556639	2400000	3599999
4	1899000	1	14	65	1533	0	0	4459207	3600000	4799999
5	1080804	1	14	70	1178	0	0	5541544	4800000	5999999
6	1477364	3	14	50	1593	1179	1026	7020086	6000000	7199999
7	213419	3	14	70	1255	1458	1966	7237303	7200000	8399999
8	1253779	1	14	70	1955	0	0	8495761	8400000	9599999
9	1718101	3	14	95	1556	1753	1234	10215817	9600000	10799999
10	1230544	3	14	65	1863	1449	1111	11450904	10800000	11999999

Total number of pulses in waveform = 21

Type 5 Radar Waveform_19Num 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	573642	2	8	80	1623	1974	0	573642	0	923076
2	516382	1	8	60	1745	0	0	1093621	923077	1846153
3	1000830	1	8	65	1138	0	0	2096196	1846154	2769230
4	1566095	2	8	100	1822	1283	0	3663429	2769231	3692307
5	279059	2	8	65	1117	1436	0	3945593	3692308	4615384
6	1356244	2	8	90	1022	1644	0	5304390	4615385	5538461
7	349230	1	8	60	1880	0	0	5656286	5538462	6461538
8	1672409	1	8	50	1199	0	0	7330575	6461539	7384615
9	230589	3	8	55	1487	1455	1702	7562363	7384616	8307692
10	1064988	3	8	85	1378	1886	1165	8631995	8307693	9230769
11	1237992	2	8	70	1103	1261	0	9874416	9230770	10153846
12	494783	3	8	100	1349	1297	1141	10371563	10153847	11076923
13	1615186	1	8	95	1217	0	0	11990536	11076924	12000000

Total number of pulses in waveform = 24



Type 5 Radar Waveform_20

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	88880	3	9	90	1392	1872	1749	88880	0	857142
2	1316080	1	9	60	1721	0	0	1409973	857143	1714285
3	808774	3	9	75	1924	1780	1263	2220468	1714286	2571428
4	1065289	2	9	95	1584	1858	0	3290724	2571429	3428571
5	970421	3	9	85	1323	1298	1245	4264567	3428572	4285714
6	318851	2	9	80	1823	1291	0	4587284	4285715	5142857
7	1035023	3	9	70	1257	1284	1867	5625421	5142858	6000000
8	715961	3	9	100	1862	1097	1849	6345790	6000001	6857143
9	946382	3	9	70	1791	1913	1160	7296980	6857144	7714286
10	557063	2	9	60	1114	1562	0	7858907	7714287	8571429
11	924522	1	9	65	1696	0	0	8786105	8571430	9428572
12	1216318	3	9	55	1051	1846	1338	10004119	9428573	10285715
13	301084	3	9	75	1910	1284	1298	10309438	10285716	11142858
14	1198253	3	9	100	1691	1332	1545	11512183	11142859	12000001

Total number of pulses in waveform = 35

Type 5 Radar Waveform_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	112583	2	10	75	1523	1233	0	112583	0	749999
2	1121422	1	10	90	1780	0	0	1236761	750000	1499999
3	558132	3	10	90	1898	1920	1721	1796673	1500000	2249999
4	1192758	1	10	100	1936	0	0	2994970	2250000	2999999
5	368792	3	10	100	1171	1997	1549	3365698	3000000	3749999
6	701207	3	10	70	1186	1281	1768	4071622	3750000	4499999
7	499176	3	10	50	1684	1711	1022	4575033	4500000	5249999
8	1154506	1	10	90	1954	0	0	5733956	5250000	5999999
9	983019	2	10	55	1170	1117	0	6718929	6000000	6749999
10	188909	2	10	80	1552	1982	0	6910125	6750000	7499999
11	1139177	2	10	75	1922	1151	0	8052836	7500000	8249999
12	249093	1	10	90	1441	0	0	8305002	8250000	8999999
13	1065100	2	10	65	1846	1774	0	9371543	9000000	9749999
14	893447	3	10	100	1930	1174	1718	10288610	9750000	10499999
15	441142	2	10	75	1776	1195	0	10714574	10500000	11249999
16	834380	1	10	100	1816	0	0	11551925	11250000	11999999

Total number of pulses in waveform = 32

Type 5 Radar Waveform_22

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	735969	3	17	100	1035	1845	1809	735969	0	799999
2	319901	3	17	100	1296	1340	1050	1060559	800000	1599999
3	797610	2	17	65	1805	1500	0	1261855	1600000	2399999
4	766416	3	17	55	1065	1547	1570	2631576	2400000	3199999
5	792969	1	17	55	1266	0	0	3428727	3200000	3999999
6	1144435	3	17	100	1590	1134	1075	4574428	4000000	4799999
7	770590	3	17	60	1786	1114	1995	5348817	4800000	5599999
8	945810	3	17	75	1124	1604	1824	6299522	5600000	6399999
9	284912	2	17	75	1123	1880	0	6588986	6400000	7199999
10	1057807	3	17	80	1035	1879	1412	7649796	7200000	7999999
11	779827	1	17	60	1083	0	0	8433949	8000000	8799999
12	953761	3	17	80	1352	1910	1127	9388793	8800000	9599999
13	264976	1	17	100	1073	0	0	9658158	9600000	10399999
14	1246614	2	17	65	1356	1444	0	10905845	10400000	11199999
15	349574	2	17	90	1203	1329	0	11258219	11200000	11999999

Total number of pulses in waveform = 35



Type 5 Radar Waveform_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	385988	1	5	95	1244	0	0	385988	0	631578
2	718952	1	5	55	1895	0	0	1105464	631579	1263157
3	962116	1	5	80	1708	0	0	1470481	1263158	1894736
4	319934	3	5	100	1434	1102	1735	2434315	1894737	2526315
5	646299	2	5	70	1975	1988	0	2758520	2526316	3157894
6	556930	2	5	60	1835	1171	0	3408782	3157895	3789473
7	774534	1	5	80	1327	0	0	3968718	3789474	4421052
8	314633	1	5	60	1532	0	0	4744579	4421053	5052631
9	1223272	3	5	65	1636	1638	1396	5060744	5052632	5684210
10	537489	3	5	60	1398	1149	1022	6289686	5684211	6315789
11	482503	2	5	95	1772	1092	0	6829744	6315790	6947368
12	608759	1	5	100	1141	0	0	7315111	6947369	7578947
13	458349	2	5	70	1449	1674	0	7925011	7578948	8210526
14	696291	3	5	95	1397	1071	1002	8386483	8210527	8842105
15	395869	2	5	75	1872	1763	0	9089244	8842106	9473684
16	761422	1	5	85	1757	0	0	9488748	9473685	10105263
17	972292	3	5	65	1002	1862	1933	10241927	10105264	10736842
18	584668	2	5	50	1538	1806	0	11219016	10736843	11365421
19	584668	3	5	80	1284	1825	1814	11806928	11368422	12000000

Total number of pulses in waveform = 37

Type 5 Radar Waveform_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	500364	2	14	85	1520	1460	0	500364	0	1333332
2	1445897	1	14	65	1757	0	0	1949241	1333333	2666665
3	1169426	1	14	95	1915	0	0	3120424	2666666	3999998
4	1114038	3	14	70	1657	1003	1883	4236377	3999999	5333331
5	1573771	2	14	70	1970	1965	0	5814691	5333332	6666664
6	1429505	2	14	100	1819	1407	0	7248131	6666665	7999997
7	1630995	3	14	75	1286	1405	1627	8882852	7999998	9333330
8	1053241	1	14	55	1988	0	0	9939911	9333331	10666663
9	1441287	1	14	50	1049	0	0	11383186	10666664	11999996

Total number of pulses in waveform = 16

Type 5 Radar Waveform_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	378225	3	9	55	1232	1360	1507	378225	0	923076
2	895669	3	9	65	1451	1452	1800	1277993	923077	1846153
3	572096	3	9	80	1312	1476	1963	1854792	1846154	2769230
4	1812563	1	9	60	1511	0	0	3672106	2769231	3692307
5	371742	2	9	55	1510	1902	0	4045359	3692308	4615384
6	566673	2	9	100	1005	1285	0	4615449	4615385	5538461
7	1294718	1	9	75	1004	0	0	5912457	5538462	6461538
8	1265496	2	9	65	1065	1908	0	7178957	6461539	7384615
9	468368	2	9	90	1816	1511	0	7650298	7384616	8307692
10	1268635	2	9	80	1758	1347	0	8922260	8307693	9230769
11	908247	1	9	80	1268	0	0	9833612	9230770	10153846
12	1038795	1	9	75	1932	0	0	10873675	10153847	11076923
13	510807	3	9	55	1239	1466	1620	11386414	11076924	12000000

Total number of pulses in waveform = 26



Type 5 Radar Waveform_26

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	238681	1	12	100	1040	0	0	418753	0	631578
2	833357	3	12	75	1881	1652	1172	658474	631579	1263157
3	923016	1	12	95	1934	0	0	1496536	1263158	1894736
4	586396	1	12	85	1511	0	0	2420486	1894737	2526315
5	505536	1	12	95	1530	0	0	3018363	2526316	3157894
6	684576	2	12	55	1899	1617	0	3525429	3157895	3789473
7	633771	3	12	65	1367	1782	1864	4213521	3789474	4421052
8	810688	3	12	75	1793	1280	1872	4852005	4421053	5052631
9	469519	1	12	90	1459	0	0	5667819	5052632	5684210
10	357323	2	12	65	1619	1004	0	6138797	5684211	6315789
11	1036637	2	12	70	1982	1678	0	6498743	6315790	6947368
12	479430	2	12	90	1067	1587	0	7539040	6947369	7578947
13	539829	3	12	95	1670	1955	1124	8021124	7578948	8210526
14	901883	1	12	80	1306	0	0	8565712	8210527	8842105
15	303219	2	12	65	1001	1958	0	9408901	8842106	9473084
16	578202	1	12	70	1346	0	0	9775739	9473085	10105263
17	897405	2	12	60	1054	1770	0	10355287	10105264	10736842
18	508319	1	12	60	1853	0	0	11055516	10736843	11368421
19		1	12	55	1818	0	0	11656688	11368422	12000000
Total number of pulses in waveform = 33 *****										

Type 5 Radar Waveform_27

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	115448	1	6	65	1448	0	0	115448	0	749999
2	895906	2	6	90	1108	1760	0	1012802	750000	1499999
3	937087	2	6	100	1849	1668	0	1952757	1500000	2249999
4	680700	2	6	95	1184	1576	0	2636974	2250000	2999999
5	654693	3	6	55	1378	1150	1699	3294427	3000000	3749999
6	582886	2	6	50	1655	1291	0	3881540	3750000	4499999
7	1018497	3	6	95	1793	1928	1999	4902983	4500000	5249999
8	420895	1	6	65	1472	0	0	5329598	5250000	5999999
9	847684	2	6	50	1705	1143	0	6178754	6000000	6749999
10	1053142	3	6	85	1116	1862	1100	7234744	6750000	7499999
11	910282	1	6	90	1909	0	0	8149104	7500000	8249999
12	189744	3	6	70	1761	1248	1733	8340757	8250000	8999999
13	764681	2	6	70	1105	1672	0	9110180	9000000	9749999
14	804143	2	6	90	1638	1924	0	9917100	9750000	10499999
15	901991	3	6	85	1799	1898	1301	10822653	10500000	11249999
16	851763	3	6	90	1475	1729	1541	11679414	11250000	11999999
Total number of pulses in waveform = 35 *****										

Type 5 Radar Waveform_28

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	859590	2	8	80	1614	1872	0	859590	0	923076
2	354079	2	8	50	1430	1063	0	1217155	923077	1846153
3	846995	3	8	60	1169	1596	1337	2066643	1846154	2769230
4	1350098	2	8	55	1763	1571	0	3420843	2769231	3692307
5	384095	2	8	95	1797	1347	0	3808272	3692308	4615384
6	890300	3	8	70	1065	1644	1301	4701716	4615385	5538461
7	1479116	2	8	75	1237	1955	0	6184842	5538462	6461538
8	692361	2	8	65	1563	1654	0	6880395	6461539	7384615
9	936032	1	8	65	1988	0	0	7819644	7384616	8307692
10	910609	2	8	75	1649	1493	0	8732241	8307693	9230769
11	1161404	3	8	55	1066	1958	1287	9896787	9230770	10153846
12	1049412	3	8	55	1533	1615	1455	10950510	10153847	11076923
13	975087	1	8	90	1100	0	0	11930200	11076924	12000000
Total number of pulses in waveform = 28 *****										

**Type 5 Radar Waveform_29**

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	145537	2	19	65	1433	1479	0	145537	0	1333332
2	2319357	2	19	60	1323	1415	0	2467806	1333333	2666665
3	707962	2	19	90	1003	1702	0	3178506	2666666	3999998
4	1791112	2	19	95	1005	1704	0	4972323	3999999	5333331
5	1584645	1	19	65	1337	0	0	6559677	5333332	6666664
6	886657	3	19	70	1480	1272	1120	7447671	6666665	7999997
7	1813720	1	19	55	1642	0	0	9265263	7999998	9333330
8	751986	2	19	85	1934	1484	0	10018891	9333331	10666663
9	801443	1	19	70	1707	0	0	10823752	10666664	11999996

Total number of pulses in waveform = 16

Type 5 Radar Waveform_30

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	135007	1	18	70	1094	0	0	135007	0	1090908
2	1816870	3	18	85	1830	1020	1911	1952971	1090909	2181817
3	1006065	3	18	70	1198	1739	1106	2963797	2181818	3272726
4	1098627	2	18	80	1657	1790	0	4066467	3272727	4363635
5	1334595	2	18	95	1196	1339	0	5404509	4363636	5454544
6	795280	3	18	50	1065	1272	1905	6202324	5454545	6545453
7	807497	3	18	100	1229	1522	1250	7014063	6545454	7636362
8	796975	1	18	75	1102	0	0	7815039	7636363	8727271
9	928913	1	18	100	1972	0	0	8745054	8727272	9818180
10	1710534	2	18	90	1476	1626	0	10457560	9818181	10909089
11	1246841	3	18	70	1231	1198	1738	11707503	10909090	11999998

Total number of pulses in waveform = 24



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	5490.0	1	16	5500.0	1
2	5490.0	1	17	5500.0	1
3	5490.0	1	18	5500.0	1
4	5490.0	1	19	5500.0	1
5	5490.0	1	20	5500.0	1
6	5490.0	1	21	5510.0	1
7	5490.0	1	22	5510.0	1
8	5490.0	1	23	5510.0	1
9	5490.0	1	24	5510.0	1
10	5490.0	1	25	5510.0	1
11	5500.0	1	26	5510.0	1
12	5500.0	1	27	5510.0	1
13	5500.0	1	28	5510.0	1
14	5500.0	1	29	5510.0	1
15	5500.0	1	30	5510.0	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	5492	6	10	5495	30
3	5491	9	15	5488	45
16	5500	48	17	5487	51
28	5497	84	34	5484	102
33	5478	99	39	5482	117
52	5487	156	42	5473	126
73	5499	219	57	5496	171
74	5489	222	73	5504	219
80	5460	240	81	5508	243
83	5484	249	86	5465	258
--	--	--	96	5492	288

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5491	27	7	5473	21
20	5467	60	11	5491	33
35	5504	105	23	5460	69
38	5463	114	24	5497	72
40	5493	120	34	5472	102
44	5465	132	37	5462	111
50	5487	150	39	5484	117
61	5486	183	51	5500	153
66	5485	198	68	5504	204
78	5517	234	70	5518	210
81	5471	243	78	5489	234
85	5482	255	79	5515	237
97	5475	291	94	5492	282

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5493	6	7	5504	21
4	5461	12	11	5498	33
24	5499	72	12	5461	36
26	5479	78	15	5509	45
35	5484	105	21	5472	63
38	5489	114	28	5475	84
49	5506	147	38	5466	114
52	5486	156	50	5476	150
59	5502	177	62	5484	186
60	5519	180	66	5505	198
72	5477	216	80	5490	240
73	5510	219	81	5499	243
77	5485	231	92	5495	276
81	5478	243	97	5511	291
82	5500	246	--	--	--
83	5476	249	--	--	--

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
36	5511	108	10	5464	30
62	5462	186	12	5484	36
95	5468	285	15	5488	45
96	5515	288	16	5516	48
--	--	--	19	5490	57
--	--	--	21	5493	63
--	--	--	24	5504	72
--	--	--	28	5514	84
--	--	--	35	5491	105
--	--	--	38	5501	114
--	--	--	43	5517	129
--	--	--	45	5498	135
--	--	--	47	5472	141
--	--	--	68	5463	204

--	--	--	75	5487	225
--	--	--	78	5460	234
--	--	--	81	5520	243
--	--	--	97	5479	291

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5470	9	12	5486	36
11	5495	33	15	5480	45
18	5472	54	21	5484	63
24	5511	72	30	5499	90
27	5520	81	36	5513	108
34	5496	102	41	5500	123
42	5506	126	43	5491	129
46	5501	138	52	5463	156
48	5498	144	57	5516	171
49	5481	147	62	5468	186
54	5516	162	67	5517	201
58	5512	174	69	5475	207
69	5503	207	84	5504	252
86	5482	258	95	5502	285
98	5502	294	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Frequency (MHz)	Hopping Number	Pulse Start (ms)
5	5527	15	0	5477	0
6	5503	18	1	5470	3
9	5476	27	3	5490	9
25	5505	75	12	5518	36
28	5514	84	30	5489	90
29	5498	87	31	5504	93
42	5492	126	32	5492	96
50	5501	150	34	5475	102
59	5530	177	35	5525	105
63	5475	189	43	5487	129
75	5511	225	56	5522	168
91	5521	273	61	5488	183
--	--	--	79	5479	237
--	--	--	82	5471	246
--	--	--	94	5511	282

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5511	12	3	5482	9
5	5495	15	8	5475	24
8	5516	24	36	5526	108
14	5527	42	40	5489	120
15	5522	45	42	5497	126
17	5517	51	63	5529	189
24	5512	72	67	5473	201
30	5524	90	72	5525	216
37	5487	111	84	5530	252
63	5510	189	98	5513	294
80	5518	240	--	--	--
85	5493	255	--	--	--
87	5515	261	--	--	--

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5487	21	4	5504	12
23	5512	69	15	5511	45
26	5479	78	18	5481	54
27	5509	81	35	5502	105
56	5525	168	39	5475	117
58	5475	174	53	5509	159
87	5520	261	56	5472	168
93	5491	279	69	5520	207
95	5472	285	70	5498	210
97	5521	291	80	5517	240
--	--	--	81	5514	243
--	--	--	88	5530	264
--	--	--	92	5485	276
--	--	--	93	5484	279

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5529	9	4	5478	12
39	5506	117	6	5488	18
78	5474	234	13	5480	39
--	--	--	28	5527	84
--	--	--	30	5525	90
--	--	--	33	5487	99
--	--	--	36	5497	108
--	--	--	40	5502	120
--	--	--	44	5482	132
--	--	--	56	5472	168
--	--	--	64	5483	192
--	--	--	66	5503	198
--	--	--	72	5511	216
--	--	--	76	5517	228
--	--	--	77	5518	231
--	--	--	81	5501	243



--	--	--	91	5523	273
--	--	--	93	5486	279

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
12	5512	36	7	5523	21
31	5526	93	10	5501	30
32	5475	96	43	5484	129
37	5518	111	54	5505	162
41	5483	123	67	5476	201
48	5492	144	71	5496	213
51	5524	153	82	5502	246
56	5473	168	90	5495	270
61	5515	183	91	5527	273
73	5504	219	94	5478	282
74	5530	222	97	5481	291
78	5501	234	98	5508	294
85	5480	255	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5497	12	1	5486	3
7	5534	21	26	5501	78
11	5499	33	32	5506	96
14	5492	42	34	5495	102
21	5516	63	35	5514	105
22	5488	66	57	5492	171
27	5537	81	60	5515	180
39	5524	117	67	5507	201
51	5505	153	69	5538	207
57	5510	171	96	5481	288
65	5490	195	99	5535	297
70	5482	210	--	--	--
71	5502	213	--	--	--
79	5531	237	--	--	--
90	5486	270	--	--	--

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5505	27	3	5529	9
24	5497	72	13	5487	39
42	5521	126	17	5538	51
58	5500	174	32	5515	96
64	5515	192	34	5530	102
70	5529	210	37	5535	111
74	5501	222	53	5493	159
76	5520	228	60	5490	180
82	5509	246	65	5528	195
--	--	--	83	5506	249
--	--	--	97	5492	291

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5517	3	18	5480	54
8	5537	24	21	5483	63
18	5525	54	25	5514	75
30	5482	90	32	5493	96
38	5514	114	34	5494	102
44	5502	132	43	5505	129
45	5483	135	48	5531	144
53	5494	159	51	5487	153
54	5485	162	53	5497	159
57	5484	171	54	5488	162
68	5533	204	62	5486	186
79	5534	237	65	5495	195
81	5521	243	70	5507	210
88	5508	264	72	5533	216
92	5507	276	--	--	--
94	5487	282	--	--	--

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5521	27	4	5533	12
24	5502	72	14	5519	42
25	5532	75	17	5487	51
29	5485	87	18	5515	54
32	5516	96	47	5538	141
36	5515	108	51	5480	153
42	5540	126	70	5506	210
43	5494	129	71	5496	213
45	5480	135	80	5525	240
50	5481	150	91	5502	273
60	5517	180	94	5534	282
64	5519	192	--	--	--
74	5524	222	--	--	--
82	5488	246	--	--	--
87	5520	261	--	--	--
91	5522	273	--	--	--
96	5539	288	--	--	--

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
20	5486	60	6	5530	18
58	5510	174	8	5504	24
60	5488	180	18	5494	54
62	5531	186	20	5538	60
73	5481	219	26	5511	78
78	5483	234	36	5518	108
86	5516	258	37	5522	111
95	5525	285	39	5485	117
--	--	--	50	5505	150
--	--	--	57	5536	171
--	--	--	70	5492	210
--	--	--	84	5537	252
--	--	--	89	5500	267



Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/06
Test Item	Radar Statistical Performance Check (802.11ax-HE40 mode – 5510MHz)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490	1	698	76	1
2	5490	1	638	83	1
3	5490	1	838	63	1
4	5490	1	598	89	1
5	5500	1	558	95	1
6	5500	1	538	99	1
7	5500	1	578	92	1
8	5500	1	898	59	1
9	5509	1	918	58	1
10	5509	1	718	74	1
11	5509	1	758	70	1
12	5509	1	858	62	1
13	5510	1	798	67	1
14	5510	1	878	61	1
15	5510	1	818	65	1
16	5510	1	887	60	1
17	5510	1	1318	41	1
18	5510	1	2724	20	1
19	5511	1	2694	20	1
20	5511	1	1084	49	1
21	5511	1	2701	20	1
22	5511	1	2867	19	1
23	5520	1	2208	24	1
24	5520	1	1012	53	1
25	5520	1	784	68	1
26	5520	1	701	76	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5530	1	1264	42	1
28	5530	1	2828	19	1
29	5530	1	2077	26	1
30	5530	1	756	70	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	5490	3.6	216	24	1
2	5490	1.5	169	25	1
3	5490	1.8	219	25	1
4	5490	4.6	200	29	1
5	5500	4.0	203	29	1
6	5500	3.4	224	28	1
7	5500	3.1	195	28	1
8	5500	4.1	153	25	1
9	5509	1.9	170	28	1
10	5509	1.0	180	23	1
11	5509	1.4	224	25	1
12	5509	2.2	191	25	1
13	5510	1.1	225	24	1
14	5510	1.1	150	28	1
15	5510	4.7	157	28	1
16	5510	1.6	159	29	1
17	5510	1.3	185	26	1
18	5510	4.3	167	24	1
19	5511	3.2	220	24	1
20	5511	2.4	210	24	1
21	5511	4.4	218	23	1
22	5511	4.9	183	26	1
23	5520	3.1	158	27	1
24	5520	3.4	197	28	1
25	5520	2.0	202	24	1
26	5520	1.1	218	29	1
27	5530	1.7	206	29	1
28	5530	3.4	200	23	1
29	5530	3.6	193	23	1
30	5530	4.3	153	26	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	5490	8.6	404	18	1
2	5490	9.7	335	18	1
3	5490	9.4	393	18	1
4	5490	9.5	363	16	1
5	5500	7.0	447	16	1
6	5500	6.4	359	16	1
7	5500	6.0	307	16	1
8	5500	10.0	305	17	1
9	5509	8.0	439	16	1
10	5509	8.4	384	18	1
11	5509	6.8	476	16	1
12	5509	8.2	433	16	1
13	5510	8.1	429	18	1
14	5510	8.6	500	17	1
15	5510	6.0	388	17	1
16	5510	8.9	367	18	1
17	5510	8.5	433	17	1
18	5510	8.4	318	18	1
19	5511	8.2	398	17	1
20	5511	8.6	300	18	1
21	5511	6.3	380	17	1
22	5511	7.6	387	18	1
23	5520	8.9	386	18	1
24	5520	8.7	254	17	1
25	5520	7.6	469	16	1
26	5520	9.4	322	16	1
27	5530	10.0	499	17	1
28	5530	8.1	348	17	1
29	5530	7.0	399	18	1
30	5530	8.8	453	16	1
Detection Percentage (%)					100%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490	14.8	446	15	1
2	5490	19.5	421	15	1
3	5490	15.8	462	15	1
4	5490	18.6	258	13	1
5	5500	19.9	438	14	1
6	5500	11.5	450	15	1
7	5500	17.5	361	12	1
8	5500	19.5	491	15	1
9	5509	13.4	314	15	1
10	5509	16.3	404	15	1
11	5509	12.0	440	14	1
12	5509	18.1	491	15	1
13	5510	19.6	438	13	1
14	5510	11.4	301	15	1
15	5510	19.5	336	13	1
16	5510	19.9	417	14	1
17	5510	16.7	397	16	1
18	5510	18.3	286	12	1
19	5511	12.2	318	15	1
20	5511	19.3	325	16	1
21	5511	11.7	267	15	1
22	5511	11.4	250	14	1
23	5520	18.1	316	14	1
24	5520	11.1	352	13	1
25	5520	13.3	387	12	1
26	5520	17.4	430	13	1
27	5530	19.1	270	12	1
28	5530	15.1	287	15	1
29	5530	17.2	372	13	1
30	5530	11.1	270	15	1
Detection Percentage (%)					100%

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

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



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	5493.2	1	16	5510.0	1
2	5493.6	1	17	5510.0	1
3	5496.8	1	18	5510.0	1
4	5497.6	1	19	5510.0	1
5	5495.6	1	20	5510.0	1
6	5492.0	1	21	5526.4	1
7	5497.2	1	22	5526.8	1
8	5492.4	1	23	5526.0	1
9	5494.8	1	24	5524.4	1
10	5494.0	1	25	5522.8	1
11	5510.0	1	26	5528.0	1
12	5510.0	1	27	5523.2	1
13	5510.0	1	28	5525.2	1
14	5510.0	1	29	5527.6	1
15	5510.0	1	30	5522.4	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_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	994605	3	8	100	1091	1835	1872	994605	0	1333332
2	1019034	3	8	80	1820	1172	1406	2018487	1333333	2666665
3	883221	3	8	100	1947	1816	1466	2906106	2666666	3999998
4	2227273	3	8	95	1784	1716	1847	5138608	3999999	5333331
5	316504	1	8	55	1660	0	0	5460459	5333332	6666664
6	1365003	1	8	75	1068	0	0	6827122	6666665	7999997
7	1574055	2	8	85	1525	1892	0	8402245	7999998	9333330
8	1643657	3	8	60	1339	1336	1688	10049319	9333331	10666663
9	1008274	2	8	75	1440	1218	0	11061956	10666664	11999996

Total number of pulses in waveform = 21



Type 5 Radar Waveform_2

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	200739	2	9	70	1729	1789	0	200739	0	599999	
2	559698	3	9	100	1708	1822	1552	763955	600000	1199999	
3	869453	2	9	100	1147	1961	0	1638660	1200000	1799999	
4	661810	2	9	100	1573	1949	0	2303578	1800000	2399999	
5	209855	1	9	55	1862	0	0	2516955	2400000	2999999	
6	548567	2	9	50	1222	1899	0	3067184	3000000	3599999	
7	762235	3	9	85	1667	1384	1579	3832540	3600000	4199999	
8	633553	2	9	90	1321	1975	0	4470723	4200000	4799999	
9	649659	3	9	50	1619	1881	1213	5123978	4800000	5399999	
10	338265	2	9	50	1027	1127	0	5466956	5400000	5999999	
11	690534	3	9	95	1344	1121	1680	6159544	6000000	6599999	
12	737101	3	9	60	1369	1907	1556	6900890	6600000	7199999	
13	332211	3	9	75	1994	1033	1242	7237933	7200000	7799999	
14	689071	3	9	90	1156	1484	1384	7931273	7800000	8399999	
15	838827	2	9	60	1300	1488	0	8774124	8400000	8999999	
16	424369	1	9	80	1838	0	0	9201281	9000000	9599999	
17	941998	1	9	75	1212	0	0	10144417	9600000	10199999	
18	153719	3	9	85	1107	1062	1911	10299348	10200000	10799999	
19	728467	1	9	85	1701	0	0	11031895	10800000	11999999	
20	883483	2	9	90	1243	1992	0	11917079	11400000	11999999	
Total number of pulses in waveform = 44 *****											

Type 5 Radar Waveform_3

Num of Bursts = 19 Burst Interval (us)= 691579											
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	48016	3	17	95	1176	1332	1240	49016	0	631578	
2	775231	3	17	70	1709	1630	1723	828995	631579	1263157	
3	927943	2	17	95	1012	1048	0	1762000	1263158	1894736	
4	450405	1	17	70	1672	0	0	2214465	1894737	2526315	
5	370204	3	17	95	1720	1492	1569	2586341	2526316	3157894	
6	774612	2	17	85	1000	1081	0	3365734	3157895	3789473	
7	607570	3	17	60	1183	1321	1116	3975385	3789474	4421052	
8	492075	2	17	65	1083	1403	0	4471080	4421053	5052631	
9	580682	1	17	55	1399	0	0	5054248	5052632	5684210	
10	1082402	1	17	100	1386	0	0	6138049	5684211	6315789	
11	601280	2	17	90	1690	1395	0	6740715	6315790	6947368	
12	669269	2	17	90	1820	1918	0	7413069	6947369	7578947	
13	416302	2	17	90	1512	1999	0	7833109	7578948	8210526	
14	803425	2	17	95	1228	1274	0	8640046	8210527	8842105	
15	718449	1	17	50	1637	0	0	9360997	8842106	9473684	
16	270391	1	17	70	1630	0	0	9633025	9473685	10105263	
17	1086573	3	17	90	1723	1200	1672	10721228	10105264	10736842	
18	625270	2	17	55	1970	1498	0	11351093	10736843	11368421	
19	233809	2	17	55	1932	1306	0	11588370	11368422	12000000	
Total number of pulses in waveform = 38 *****											

Type 5 Radar Waveform_4

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	291417	2	19	65	1950	1778	0	291417	0	705881	
2	793233	2	19	55	1998	1080	0	1088378	705882	1411763	
3	797843	3	19	95	1514	1682	1667	1889299	1411764	2117645	
4	844406	2	19	50	1422	1502	0	2738568	2117646	2823527	
5	323764	1	19	75	1055	0	0	3065256	2823528	3529409	
6	866339	1	19	80	1165	0	0	3932650	3529410	4235291	
7	443039	2	19	80	1206	1940	0	4376854	4235292	4941173	
8	1072045	1	19	95	1907	0	0	5452045	4941174	5647055	
9	417869	1	19	60	1233	0	0	5871821	5647056	6352937	
10	1009295	2	19	75	1558	1986	0	6882349	6352938	7058819	
11	305368	2	19	95	1979	1262	0	7191261	7058820	7764701	
12	8b1b6b	3	19	50	1488	1447	1367	8046067	7764702	8470583	
13	1076060	2	19	70	1130	1484	0	9126429	8470584	9176465	
14	675329	3	19	100	1609	1166	1904	9804372	9176466	9882347	
15	545951	3	19	65	1731	1611	1452	10355002	9882348	10588229	
16	250493	1	19	100	1375	0	0	10610289	10588230	11294111	
17	973329	3	19	75	1608	1949	1280	11584993	11294112	11999993	
Total number of pulses in waveform = 34 *****											

**Type 5 Radar Waveform_5**Num of Bursts = 12
Burst Interval (us)= 1000000

Burst #	Off Time (us)	# Pulses	Chirp (GHz)	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	10376	3	14	75	1964	1871	1047	10376	0	999999
2	1070555	1	14	65	1375	0	0	1085813	1000000	1999999
3	988488	2	14	65	1697	1056	0	2075676	2000000	2999999
4	1538617	3	14	95	1459	1777	1774	3617046	3000000	3999999
5	866047	2	14	85	1550	1031	0	4488103	4000000	4999999
6	525327	3	14	70	1862	1354	1123	5016011	5000000	5999999
7	1820438	3	14	80	1757	1903	1589	6840788	6000000	6999999
8	178187	1	14	95	1098	0	0	7024224	7000000	7999999
9	1202559	3	14	70	1691	1521	1222	8227881	8000000	8999999
10	998825	3	14	95	1303	1687	1775	9231140	9000000	9999999
11	1468170	2	14	85	1769	1553	0	10704075	10000000	10999999
12	1263727	3	14	85	1714	1254	1874	11971124	11000000	11999999

Total number of pulses in waveform = 29

Type 5 Radar Waveform_6Num 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	1035537	1	5	80	1807	0	0	1035537	0	1199999
2	307961	3	5	50	1670	1974	1385	1345305	1200000	2399999
3	2223635	1	5	60	1813	0	0	3573969	2400000	3599999
4	1098253	3	5	90	1164	1263	1946	4674035	3600000	4799999
5	266526	1	5	80	1858	0	0	4944934	4800000	5999999
6	1503731	2	5	55	1564	1718	0	6450523	6000000	7199999
7	1041635	3	5	85	1129	1053	1639	7495440	7200000	8399999
8	957227	1	5	50	1609	0	0	8456488	8400000	9599999
9	2107476	3	5	55	1566	1785	1074	10565573	9600000	10799999
10	400524	2	5	60	1410	1727	0	10970522	10800000	11999999

Total number of pulses in waveform = 20

Type 5 Radar Waveform_7Num 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	378179	2	18	95	1963	1640	0	378179	0	1499999
2	1223170	2	18	100	1302	1390	0	1604952	1500000	2999999
3	1805838	2	18	80	1368	1987	0	3413482	3000000	4499999
4	1256699	3	18	85	1196	1091	1564	4673536	4500000	5999999
5	2362245	1	18	55	1614	0	0	7039632	6000000	7499999
6	1263389	2	18	75	1209	1534	0	8304635	7500000	8999999
7	1514151	1	18	55	1739	0	0	9821529	9000000	10499999
8	1090320	2	18	90	1123	1301	0	10913638	10500000	11999999

Total number of pulses in waveform = 15

**Type 5 Radar Waveform_8**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	426105	3	6	75	1359	1034	1314	426105	0	857142
2	1088372	1	6	85	1719	0	0	1518684	857143	1714285
3	952775	2	6	85	1030	1223	0	2473178	1714286	2571428
4	757703	1	6	50	1453	0	0	3233134	2571429	3428571
5	1000058	1	6	60	1246	0	0	4234645	3428572	4285714
6	73293	3	6	65	1991	1857	1451	4309184	4285715	5142857
7	1414268	2	6	90	1629	1328	0	5728751	5142858	6000000
8	904173	3	6	90	1481	1316	1964	6635881	6000001	6857143
9	922357	2	6	85	1473	1279	0	7562999	6857144	7714286
10	502252	1	6	90	1585	0	0	8068003	7714287	8571429
11	1113818	2	6	75	1383	1942	0	9183406	8571430	9428572
12	406114	3	6	70	1055	1536	1978	9592845	9428573	10285715
13	701009	2	6	60	1065	1942	0	10298423	10285716	11142858
14	1471719	2	6	65	1300	1699	0	11773149	11142859	12000001

Total number of pulses in waveform = 28

Type 5 Radar Waveform_9Num 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	132126	2	12	70	1246	1939	0	132126	0	1333332
2	1380466	1	12	85	1043	0	0	1515777	1333333	2666665
3	1660144	2	12	60	1588	1346	0	3176964	2666666	3999998
4	1698143	1	12	55	1216	0	0	4878041	3999999	5333331
5	1204562	1	12	75	1531	0	0	6083819	5333332	6666664
6	873688	2	12	75	1019	1394	0	6959038	6666665	7999997
7	1792866	3	12	65	1664	1775	1505	8754317	7999998	9333330
8	1568790	1	12	50	1020	0	0	10328051	9333331	10666663
9	1228462	3	12	85	1708	1496	1531	11557533	10666664	11999996

Total number of pulses in waveform = 16

Type 5 Radar Waveform_10Num 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	153024	3	10	95	1512	1704	1549	153024	0	799999
2	1078324	2	10	75	1089	1057	0	1236113	800000	1599999
3	452687	1	10	95	1729	0	0	1690946	1600000	2399999
4	821547	1	10	85	1903	0	0	2514222	2400000	3199999
5	787907	2	10	90	1208	1615	0	3304032	3200000	3999999
6	1366398	2	10	70	1606	1545	0	4673253	4000000	4799999
7	529886	1	10	70	1238	0	0	5206290	4800000	5599999
8	931553	1	10	65	1539	0	0	6139081	5600000	6399999
9	514403	3	10	50	1554	1576	1125	6655023	6400000	7199999
10	925937	1	10	75	1175	0	0	7585215	7200000	7999999
11	488617	1	10	85	1591	0	0	8075007	8000000	8799999
12	1016308	2	10	90	1537	1175	0	9092906	8800000	9599999
13	1232857	2	10	70	1571	1596	0	10328475	9600000	10399999
14	802558	1	10	75	1927	0	0	11134200	10400000	11199999
15	589832	1	10	50	1248	0	0	11725959	11200000	11999999

Total number of pulses in waveform = 24



Type 5 Radar Waveform_11

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	367322	1	5	85	1941	0	0	367322	0	569999	
2	501136	3	5	50	1879	1373	1855	870396	600000	1199999	
3	455910	3	5	70	1303	1492	1143	1331417	1200000	1799999	
4	549585	3	5	80	1149	1377	1269	1984940	1800000	2399999	
5	524328	3	5	90	1546	1373	1105	2513063	2400000	2999999	
6	970586	2	5	70	1342	1976	0	3487806	3000000	3599999	
7	489910	1	5	65	1782	0	0	3991034	3600000	4199999	
8	330947	1	5	90	1471	0	0	4323763	4200000	4799999	
9	979236	2	5	85	1100	1668	0	5304470	4800000	5399999	
10	374235	2	5	60	1203	1471	0	5681473	5400000	5999999	
11	839904	2	5	80	1687	1407	0	6523751	6000000	6599999	
12	556086	2	5	80	1695	1120	0	7082931	6600000	7199999	
13	394403	2	5	100	1505	1706	0	7480049	7200000	7799999	
14	560218	1	5	75	1472	0	0	8043478	7800000	8399999	
15	410660	3	5	85	1690	1677	1194	8455510	8400000	8999999	
16	874660	1	5	50	1907	0	0	9334663	9000000	9599999	
17	878138	3	5	60	1920	1184	1689	10174708	9600000	10199999	
18	288783	3	5	60	1162	1217	1360	10468284	10200000	10799999	
19	420856	1	5	55	1088	0	0	10892879	10800000	11399999	
20	803830	3	5	100	1583	1854	1689	11597777	11400000	11999999	
Total number of pulses in waveform = 42 *****											

Type 5 Radar Waveform_12

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	311031	2	9	70	1481	1439	0	311031	0	749999	
2	712606	2	9	90	1093	1924	0	1026557	750000	1499999	
3	933732	1	9	60	1011	0	0	1963306	1500000	2249999	
4	856564	1	9	90	1621	0	0	2820881	2250000	2999999	
5	797493	2	9	55	1038	1430	0	3619995	3000000	3749999	
6	713665	3	9	85	1926	1333	1797	4336128	3750000	4499999	
7	507658	2	9	80	1131	1632	0	4848842	4500000	5249999	
8	1100391	1	9	65	1516	0	0	5951996	5250000	5999999	
9	397107	1	9	85	1131	0	0	6350619	6000000	6749999	
10	624072	1	9	85	1124	0	0	6975822	6750000	7499999	
11	843054	2	9	65	1944	1827	0	7820000	7500000	8249999	
12	730502	1	9	60	1901	0	0	8554273	8250000	8999999	
13	1105230	3	9	70	1196	1048	1385	9661404	9000000	9749999	
14	564278	1	9	85	1080	0	0	10229311	9750000	10499999	
15	373627	2	9	100	1106	1182	0	10604018	10500000	11249999	
16	884373	3	9	70	1438	1196	1944	11490679	11250000	11999999	
Total number of pulses in waveform = 28 *****											

Type 5 Radar Waveform_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	485172	3	14	55	1661	1896	1243	485172	0	666666	
2	876242	2	14	70	1655	1998	0	1166214	666667	1333333	
3	631963	2	14	55	1776	1219	0	1801830	1333334	2000000	
4	518398	3	14	90	1289	1346	1702	2323223	2000001	2666667	
5	495497	1	14	70	1297	0	0	2823057	2666668	3333334	
6	606178	2	14	60	1682	1641	0	3430532	3333335	4000001	
7	1219781	3	14	75	1872	1241	1213	4653636	4000002	4666668	
8	337145	3	14	100	1066	1214	1430	4995107	4666669	5333335	
9	608436	1	14	55	1559	0	0	5697253	5333336	6000002	
10	851763	1	14	50	1880	0	0	6550575	6000003	6666669	
11	257383	1	14	85	1656	0	0	6806838	6666670	7333336	
12	1147835	3	14	65	1208	1499	1324	7969328	7333337	8000003	
13	593242	1	14	90	1743	0	0	8556601	8000004	8666670	
14	498197	1	14	60	1291	0	0	9056541	8666671	9333337	
15	842423	3	14	55	1211	1849	1387	9900255	9333338	10000004	
16	643065	3	14	100	1064	1468	1306	10547787	10000005	10666671	
17	734387	2	14	90	1948	1131	0	11285992	10666672	11333338	
18	226369	2	14	95	1211	1076	0	11515440	11333339	12000005	
Total number of pulses in waveform = 37 *****											

**Type 5 Radar Waveform_14**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	348520	2	18	60	1196	1794	0	348520	0	857142
2	651456	2	18	70	1864	1812	0	1002966	857143	1714285
3	1298981	1	18	95	1037	0	0	2305623	1714286	2571428
4	659834	1	18	50	1178	0	0	2966494	2571429	3428571
5	1098663	3	18	50	1593	1078	1008	4066335	3428572	4285714
6	600586	3	18	75	1370	1052	1232	4670600	4285715	5142857
7	480354	1	18	70	1489	0	0	5154608	5142858	6000000
8	1293318	3	18	75	1770	1617	1998	6449415	6000001	6857143
9	790193	2	18	90	1355	1049	0	7244993	6857144	7714286
10	928769	3	18	70	1502	1698	1114	8176166	7714287	8571429
11	1048372	1	18	50	1781	0	0	9228952	8571430	9428572
12	519974	1	18	55	1538	0	0	9750607	9428573	10285715
13	1188029	1	18	75	1589	0	0	10940224	10285716	11142858
14	811495	2	18	95	1116	1488	0	11753308	11142859	12000001

Total number of pulses in waveform = 26

Type 5 Radar Waveform_15Num 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	848126	2	10	80	1720	1143	0	848126	0	923076
2	779725	2	10	75	1230	1799	0	1630714	923077	1846153
3	743389	1	10	95	1468	0	0	2377132	1846154	2769230
4	645180	2	10	80	1207	1676	0	3023780	2769231	3692307
5	871743	2	10	95	1913	1272	0	3898406	3692308	4615384
6	1082783	3	10	95	1092	1590	1570	4984374	4615385	5538461
7	600116	1	10	55	1453	0	0	5588742	5538462	6461538
8	1514370	1	10	80	1285	0	0	7104565	6461539	7384615
9	380496	3	10	60	1417	1733	1978	7486346	7384616	8307692
10	1453837	3	10	85	1029	1450	1481	8945311	8307693	9230769
11	734676	2	10	60	1185	1308	0	9683947	9230770	10153846
12	470291	1	10	60	1386	0	0	10156731	10153847	11076923
13	1724909	3	10	90	1881	1777	1480	11883026	11076924	12000000

Total number of pulses in waveform = 26

Type 5 Radar Waveform_16Num 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	696809	3	8	85	1923	1753	1748	696809	0	705881
2	607390	2	8	80	1767	1478	0	1309623	705882	1411763
3	195796	2	8	100	1850	1870	0	1508664	1411764	2117645
4	637362	1	8	50	1636	0	0	2149746	2117646	2823527
5	904252	2	8	75	1608	1377	0	3055634	2823528	3529409
6	835734	2	8	90	1696	1026	0	3894353	3529410	4235291
7	837521	3	8	95	1837	1404	1860	4734596	4235292	4941173
8	233053	2	8	70	1566	1457	0	4972750	4941174	5647055
9	1130092	3	8	80	1703	1074	1478	6105865	5647056	6352937
10	813781	1	8	55	1548	0	0	6923901	6352938	7058819
11	329123	1	8	65	1487	0	0	7254572	7058820	7764701
12	889424	3	8	60	1581	1406	1531	8145483	7764702	8470583
13	869742	3	8	90	1390	1502	1231	9019743	8470584	9176465
14	179764	1	8	55	1371	0	0	9203630	9176466	9882347
15	1247578	1	8	90	1704	0	0	10452579	9882348	10588229
16	264479	1	8	50	1990	0	0	10718762	10588230	11294111
17	1160092	3	8	65	1841	1284	1863	11880844	11294112	11999993

Total number of pulses in waveform = 34



Type 5 Radar Waveform_17

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	40278	2	17	70	1108	1765	0	40278	0	599999
2	814115	3	17	90	1893	1219	1923	857205	600000	1199999
3	557840	1	17	70	1043	0	0	1420111	1200000	1799999
4	935442	1	17	60	1567	0	0	2359596	1800000	2399999
5	521875	1	17	90	1340	0	0	2880035	2400000	2899999
6	713782	1	17	95	1403	0	0	3595160	3000000	3599999
7	314764	3	17	70	1400	1540	1229	3911327	3600000	4199999
8	643365	2	17	75	1811	1372	0	4558851	4200000	4799999
9	239723	2	17	85	1801	1883	0	4801767	4800000	5399999
10	852441	2	17	80	1215	1419	0	5657892	5400000	5999999
11	720666	3	17	50	1310	1044	1192	6381192	6000000	6599999
12	667087	3	17	60	1796	1979	1031	7051825	6600000	7199999
13	687633	3	17	50	1171	1142	1729	7744264	7200000	7799999
14	546913	1	17	75	1061	0	0	8295219	7800000	8399999
15	460731	3	17	50	1018	1208	1478	8757011	8400000	8999999
16	381951	1	17	60	1222	0	0	9142662	9000000	9599999
17	183308	3	17	100	1910	1735	1040	9727192	9600000	10199999
18	714612	1	17	55	1438	0	0	10446489	10200000	10799999
19	885039	2	17	60	1485	1242	0	11192986	10800000	11599999
20	518930	1	17	65	1980	0	0	11654623	11400000	11999999
Total number of pulses in waveform = 39 *****										

Type 5 Radar Waveform_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	1156268	1	12	65	1040	0	0	1156268	0	1499999
2	521662	1	12	65	1201	0	0	1678970	1500000	2999999
3	1510340	1	12	80	1563	0	0	3190511	3000000	4499999
4	2626477	3	12	85	1470	1038	1484	5818551	4500000	5999999
5	639579	3	12	65	1824	1311	1222	6462122	6000000	7499999
6	2282762	3	12	95	1433	1162	1452	8749241	7500000	8999999
7	601441	3	12	60	1063	1788	1082	9354729	9000000	10499999
8	1589267	2	12	50	1536	1094	0	10947929	10500000	11999999
Total number of pulses in waveform = 17 *****										

Type 5 Radar Waveform_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	371818	1	6	100	1137	0	0	371818	0	666666
2	393010	2	6	65	1207	1237	0	765965	666667	1333333
3	666920	2	6	75	1176	1927	0	1435329	1333334	2000000
4	571334	3	6	100	1189	1653	1748	2009768	2000001	2666667
5	750527	3	6	65	1476	1344	1408	2764965	2666668	3333334
6	1194412	1	6	80	1452	0	0	3963505	3333335	4000001
7	505271	3	6	85	1305	1511	1689	4470228	4000002	4666668
8	678840	1	6	90	1379	0	0	5153373	4666669	5333335
9	364668	2	6	80	1450	1487	0	5519420	5333336	6000002
10	1035556	1	6	50	1163	0	0	6557913	6000003	6666669
11	237725	1	6	50	1532	0	0	6796801	6666670	7333336
12	631920	2	6	100	1044	1452	0	7430253	7333337	8000003
13	952365	1	6	60	1121	0	0	8385114	8000004	8666670
14	930075	1	6	65	1517	0	0	9316310	8666671	9333337
15	435992	3	6	65	1562	1208	1948	9753819	9333338	10000004
16	862251	1	6	55	1279	0	0	10620788	10000005	10666671
17	231856	3	6	75	1594	1307	1817	10859923	10666672	11333338
18	626960	1	6	70	1058	0	0	11485501	11333339	12000005
Total number of pulses in waveform = 32 *****										

**Type 5 Radar Waveform_20**

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	869940	1	19	70	1200	0	0	869940	0	1199999
2	347942	2	19	80	1920	1807	0	1219082	1200000	2399999
3	1207054	1	19	65	1948	0	0	2429863	2400000	3599999
4	2123495	3	19	90	1381	1537	1041	4555306	3600000	4799999
5	579636	1	19	60	1659	0	0	5138901	4800000	5999999
6	1336863	2	19	70	1518	1063	0	6477423	6000000	7199999
7	1640777	3	19	100	1771	1594	1816	8120781	7200000	8399999
8	816466	3	19	95	1070	1596	1167	8942428	8400000	9599999
9	1389222	1	19	50	1570	0	0	10335483	9600000	10799999
10	1473200	3	19	50	1268	1948	1032	11810253	10800000	11999999

Total number of pulses in waveform = 20

Type 5 Radar Waveform_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	754011	3	9	50	1818	1051	1965	754011	0	923076
2	724118	1	9	55	1094	0	0	1482963	923077	1846153
3	717286	2	9	90	1157	1597	0	2201343	1846154	2769230
4	736837	1	9	95	1331	0	0	2940934	2769231	3692307
5	872021	2	9	75	1596	1908	0	3814286	3692308	4615384
6	1012359	1	9	75	1757	0	0	4830149	4615385	5538461
7	1378016	2	9	65	1581	1467	0	6209922	5538462	6461538
8	687217	1	9	75	1341	0	0	6900187	6461539	7384615
9	973250	1	9	100	1705	0	0	7874778	7384616	8307692
10	1160498	1	9	90	1669	0	0	9036981	8307693	9230769
11	326055	3	9	50	1219	1585	1453	9364705	9230770	10153846
12	1468787	2	9	60	1928	1236	0	10837749	10153847	11076923
13	672141	3	9	75	1279	1160	1399	11513054	11076924	12000000

Total number of pulses in waveform = 23

Type 5 Radar Waveform_22

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	714848	2	8	50	1954	1994	0	714848	0	857142
2	672784	3	8	75	1764	1267	1277	1391580	857143	1714285
3	1111480	2	8	95	1416	1650	0	2507368	1714286	2571428
4	774134	3	8	100	1795	1257	1747	3284568	2571429	3428571
5	951165	1	8	55	1463	0	0	4240532	3428572	4285714
6	751096	1	8	80	1205	0	0	4993091	4285715	5142857
7	267732	2	8	75	1575	1219	0	5262028	5142858	6000000
8	1504546	1	8	85	1182	0	0	6769368	6000001	6857143
9	574280	3	8	65	1638	1663	1474	7344830	6857144	7714286
10	743767	1	8	75	1880	0	0	8093372	7714287	8571429
11	737850	1	8	80	1453	0	0	8833102	8571430	9428572
12	700725	1	8	60	1333	0	0	9535280	9428573	10285715
13	1182294	2	8	75	1387	1513	0	10718907	10285716	11142858
14	690165	1	8	80	1552	0	0	11411972	11142859	12000001

Total number of pulses in waveform = 24



Type 5 Radar Waveform_23

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	264581	1	10	50	1744	0	0	264581	0	705881	
2	666734	3	10	60	1041	1405	1954	933059	705882	1411763	
3	782881	2	10	55	1611	1271	0	1720340	1411764	2117645	
4	696082	1	10	85	1951	0	0	2419304	2117646	2823527	
5	893809	1	10	50	1768	0	0	3315064	2823528	3529409	
6	496682	3	10	95	1757	1211	1491	3813514	3529410	4235291	
7	947575	2	10	85	1243	1615	0	4765548	4235292	4941173	
8	437418	1	10	55	1748	0	0	5205824	4941174	5647055	
9	955744	1	10	70	1280	0	0	6163316	5647056	6352937	
10	190361	1	10	75	1381	0	0	6354957	6352938	7058819	
11	899034	1	10	75	1376	0	0	7255372	7058820	7764701	
12	551259	1	10	50	1499	0	0	7808007	7764702	8470583	
13	1069718	2	10	65	1778	1143	0	8879224	8470584	9176465	
14	951080	3	10	95	1249	1643	1213	9833225	9176466	9802347	
15	402412	2	10	65	1891	1810	0	10239742	9802348	10588229	
16	802423	2	10	85	1727	1427	0	11048866	10588230	11294111	
17	850516	3	10	85	1745	1439	1792	11899536	11294112	11999993	
Total number of pulses in waveform = 30 *****											

Type 5 Radar Waveform_24

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	196987	2	14	65	1414	1783	0	196987	0	596989	
2	832802	1	14	50	1716	0	0	1032966	600000	1196999	
3	592742	1	14	75	1720	0	0	1627424	1200000	1796999	
4	400177	2	14	80	1354	1995	0	2085321	1800000	2386999	
5	599836	1	14	80	1407	0	0	2628506	2400000	2969999	
6	429985	1	14	70	1011	0	0	3058888	3000000	3669999	
7	842650	2	14	80	1489	1871	0	3608560	3600000	4106999	
8	551957	1	14	80	1822	0	0	4458820	4200000	4796999	
9	685026	1	14	60	1376	0	0	5145668	4800000	5369999	
10	479051	2	14	50	1203	1737	0	5625095	5400000	5969999	
11	561243	1	14	50	1478	0	0	6190278	6000000	6569999	
12	875167	3	14	100	1568	1885	1772	7056923	6600000	7196999	
13	467445	1	14	60	1296	0	0	7539593	7200000	7796999	
14	834410	3	14	55	1729	1301	1575	8375298	7800000	8386999	
15	180016	2	14	90	1452	1862	0	8559919	8400000	8969999	
16	677403	1	14	50	1180	0	0	9240536	9000000	9569999	
17	473516	3	14	85	1143	1763	1700	9715332	9600000	10199999	
18	724453	3	14	85	1915	1509	1345	10444391	10200000	10799999	
19	639115	1	14	95	1143	0	0	11069276	10800000	11369999	
20	634844	3	14	70	1022	1083	1687	11724362	11400000	11960000	
Total number of pulses in waveform = 35 *****											

Type 5 Radar Waveform_25

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	1078065	1	18	65	1796	0	0	1078065	0	1499999	
2	1124259	2	18	85	1668	1848	0	2204120	1500000	2999999	
3	1543310	3	18	70	1355	1827	1281	3750946	3000000	4499999	
4	1702249	2	18	75	1059	1138	0	5457658	4500000	5999999	
5	947132	3	18	80	1915	1457	1405	6406987	6000000	7499999	
6	2321356	1	18	90	1644	0	0	8733120	7500000	8999999	
7	521734	3	18	70	1071	1650	1591	9256498	9000000	10499999	
8	2708288	3	18	50	1987	1547	1288	11969098	10500000	11999999	
Total number of pulses in waveform = 18 *****											



Type 5 Radar Waveform_26

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	348520	2	5	60	1196	1794	0	348520	0	857142
2	651456	2	5	70	1864	1812	0	1002966	857143	1714285
3	1298981	1	5	95	1037	0	0	2305623	1714286	2571428
4	659834	1	5	50	1178	0	0	2966494	2571429	3428571
5	1098663	3	5	50	1593	1078	1008	4066335	3428572	4285714
6	600586	3	5	75	1370	1052	1232	4670600	4285715	5142857
7	480354	1	5	70	1439	0	0	5154608	5142858	6000000
8	1293318	3	5	75	1770	1617	1998	6449415	6000001	6857143
9	790193	2	5	90	1355	1049	0	7244993	6857144	7714286
10	928769	3	5	70	1502	1698	1114	8176166	7714287	8571429
11	1048372	1	5	50	1781	0	0	9228852	8571430	9428572
12	519974	1	5	55	1538	0	0	9750607	9428573	10285715
13	1188029	1	5	75	1539	0	0	10940224	10285716	11142858
14	811495	2	5	95	1116	1488	0	11753308	11142859	12000001

Total number of pulses in waveform = 26

Type 5 Radar Waveform_27

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	70775	2	17	80	1186	1244	0	70775	0	599999
2	815200	1	17	85	1169	0	0	888405	600000	1199999
3	890439	1	17	65	1213	0	0	1783013	1200000	1799999
4	69984	2	17	90	1528	1902	0	1854210	1800000	2300000
5	656612	2	17	90	1534	1439	0	2514152	2400000	2999999
6	642907	3	17	80	1347	1170	1857	3180032	3000000	3599999
7	718831	3	17	55	1713	1161	1429	3883237	3600000	4199999
8	527020	3	17	80	1191	1963	1382	4414890	4200000	4799999
9	901864	2	17	95	1994	1647	0	5021060	4800000	5399999
10	704763	1	17	75	1695	0	0	5729464	5400000	5999999
11	386334	2	17	90	1597	1573	0	6117493	6000000	6599999
12	797935	2	17	85	1458	1288	0	6918598	6600000	7199999
13	200701	1	17	100	1102	0	0	7202045	7200000	7799999
14	1084511	3	17	90	1499	1163	1474	8287658	7800000	8399999
15	419929	2	17	75	1865	1394	0	8711723	8400000	8999999
16	476148	1	17	90	1452	0	0	9190870	9000000	9599999
17	458188	3	17	75	1361	1657	1377	9650510	9600000	10199999
18	1080197	1	17	100	1781	0	0	10735102	10200000	10799999
19	223248	1	17	50	1023	0	0	10860131	10800000	11399999
20	814198	2	17	100	1090	1136	0	11775352	11400000	11999999

Total number of pulses in waveform = 38

Type 5 Radar Waveform_28

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	832899	3	12	50	1172	1155	1587	832899	0	999999
2	387811	2	12	95	1882	1662	0	1224624	1000000	1999999
3	1607783	1	12	90	1457	0	0	2835951	2000000	2999999
4	618757	2	12	50	1231	1693	0	3456165	3000000	3999999
5	1253164	3	12	60	1710	1019	1061	4712253	4000000	4999999
6	671362	2	12	85	1992	1386	0	5387405	5000000	5999999
7	1321075	1	12	50	1002	0	0	6711858	6000000	6999999
8	1255267	3	12	50	1778	1324	1247	7968127	7000000	7999999
9	157277	3	12	65	1804	1540	1284	8129753	8000000	8999999
10	1774697	2	12	90	1125	1088	0	9909078	9000000	9999999
11	363743	3	12	65	1882	1617	1800	10275034	10000000	10999999
12	1452608	1	12	90	1045	0	0	11732941	11000000	11999999

Total number of pulses in waveform = 26

**Type 5 Radar Waveform_29**

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	443947	3	6	80	1121	1007	1243	443947	0	1499999
2	1600054	2	6	75	1964	1109	0	2047372	1500000	2999999
3	2047920	3	6	85	1161	1747	1634	4098365	3000000	4499999
4	1348842	1	6	65	1775	0	0	5451749	4500000	5999999
5	1042865	3	6	80	1849	1422	1146	6496389	6000000	7499999
6	1383133	2	6	95	1936	1451	0	7883939	7500000	8999999
7	2053404	1	6	55	1651	0	0	9940730	9000000	10499999
8	1036238	1	6	60	1773	0	0	10978619	10500000	11999999

Total number of pulses in waveform = 16

Type 5 Radar Waveform_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	49016	3	19	95	1176	1332	1240	49016	0	631578
2	776231	3	19	70	1709	1630	1723	828995	631579	1263157
3	927943	2	19	95	1012	1048	0	1762000	1263158	1894736
4	460405	1	19	70	1672	0	0	2214465	1894737	2526315
5	370204	3	19	95	1720	1492	1569	2586341	2526316	3157894
6	774612	2	19	85	1000	1081	0	3365734	3157895	3789473
7	807570	3	19	60	1183	1321	1116	3975385	3789474	4421062
8	492075	2	19	65	1083	1403	0	4471080	4421063	5052631
9	580682	1	19	55	1399	0	0	5054248	5052632	5684210
10	1082402	1	19	100	1386	0	0	6138049	5684211	6315789
11	601280	2	19	90	1690	1395	0	6740715	6315790	6947368
12	669269	2	19	90	1820	1918	0	7413069	6947369	7578947
13	416302	2	19	90	1512	1999	0	7833109	7578948	8210526
14	803426	2	19	95	1228	1274	0	8640046	8210527	8842105
15	718449	1	19	50	1637	0	0	9360597	8842106	9473684
16	270391	1	19	70	1630	0	0	9633025	9473685	10105263
17	1086573	3	19	90	1723	1200	1672	10721228	10105264	10736842
18	625270	2	19	55	1970	1498	0	11351093	10736843	11368421
19	233809	2	19	55	1932	1306	0	11688370	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	5490	1	16	5510	1
2	5490	1	17	5510	1
3	5490	1	18	5510	1
4	5490	1	19	5511	1
5	5500	1	20	5511	1
6	5500	1	21	5511	1
7	5500	1	22	5511	1
8	5500	1	23	5520	1
9	5509	1	24	5520	1
10	5509	1	25	5520	1
11	5509	1	26	5520	1
12	5509	1	27	5530	1
13	5510	1	28	5530	1
14	5510	1	29	5530	1
15	5510	1	30	5530	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
8	5470	24	2	5494	6
24	5464	72	12	5502	36
27	5490	81	13	5488	39
36	5497	108	16	5475	48
40	5509	120	18	5514	54
42	5498	126	19	5509	57
53	5503	159	22	5477	66
63	5512	189	24	5496	72
73	5466	219	26	5463	78
79	5508	237	31	5516	93
83	5460	249	50	5476	150
87	5471	261	53	5520	159
90	5461	270	70	5471	210
91	5510	273	98	5500	294
92	5519	276	--	--	--
95	5493	285	--	--	--

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5484	12	15	5469	45
19	5517	57	18	5480	54
24	5490	72	20	5494	60
27	5520	81	28	5462	84
34	5497	102	30	5520	90
40	5500	120	34	5502	102
47	5510	141	41	5465	123
48	5516	144	43	5505	129
92	5468	276	58	5485	174
98	5473	294	60	5503	180
--	--	--	66	5482	198
--	--	--	80	5507	240
--	--	--	92	5497	276
--	--	--	93	5467	279

--	--	--	97	5487	291
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Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
0	5520	0	2	5484	6
1	5522	3	7	5521	21
2	5502	6	9	5517	27
4	5512	12	13	5501	39
6	5503	18	15	5494	45
26	5529	78	21	5510	63
27	5498	81	28	5485	84
29	5508	87	53	5514	159
32	5472	96	60	5496	180
44	5484	132	72	5498	216
47	5477	141	76	5523	228
50	5518	150	85	5502	255
51	5495	153	92	5495	276
61	5501	183	--	--	--
66	5499	198	--	--	--
80	5521	240	--	--	--

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5497	27	11	5522	33
11	5514	33	14	5480	42
14	5478	42	17	5504	51
18	5505	54	19	5481	57
24	5501	72	23	5503	69
28	5488	84	27	5513	81
32	5476	96	32	5476	96
37	5517	111	41	5473	123
41	5477	123	62	5505	186
42	5489	126	94	5478	282
45	5495	135	97	5492	291
46	5522	138	--	--	--

47	5484	141	--	--	--
48	5511	144			
60	5490	180	--	--	--
67	5529	201	--	--	--
70	5475	210	--	--	--
84	5510	252	--	--	--
94	5480	282	--	--	--

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5494	21	1	5531	3
14	5506	42	6	5484	18
29	5534	87	7	5496	21
34	5501	102	21	5509	63
61	5513	183	37	5515	111
67	5535	201	38	5528	114
69	5537	207	41	5538	123
73	5502	219	42	5529	126
81	5492	243	45	5512	135
86	5505	258	52	5505	156
90	5488	270	64	5498	192
92	5538	276	72	5521	216
--	--	--	88	5524	264
--	--	--	90	5533	270
--	--	--	94	5525	282

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5503	9	16	5488	48
13	5496	39	21	5512	63
30	5480	90	32	5533	96
31	5493	93	33	5496	99
36	5518	108	38	5491	114
37	5501	111	40	5514	120
48	5516	144	45	5482	135
54	5504	162	65	5524	195
56	5492	168	66	5493	198
60	5487	180	68	5499	204
73	5529	219	74	5489	222
74	5536	222	84	5495	252
75	5507	225	91	5534	273
78	5479	234	--	--	--
84	5519	252	--	--	--
91	5534	273	--	--	--
98	5535	294	--	--	--
99	5505	297	--	--	--

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5521	9	18	5539	54
9	5517	27	32	5518	96
17	5496	51	45	5486	135
25	5538	75	46	5497	138
29	5526	87	50	5504	150
31	5506	93	55	5531	165
46	5515	138	57	5490	171
69	5489	207	61	5510	183
70	5488	210	64	5525	192
98	5530	294	66	5484	198
--	--	--	69	5481	207
--	--	--	78	5516	234
--	--	--	81	5488	243

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
0	5524	0	3	5482	9
1	5507	3	4	5507	12
21	5527	63	6	5514	18
22	5517	66	11	5484	33
25	5519	75	19	5516	57
32	5533	96	24	5523	72
36	5539	108	39	5538	117
41	5520	123	56	5512	168
42	5538	126	62	5496	186
46	5483	138	66	5494	198
93	5485	279	--	--	--
95	5501	285	--	--	--
96	5482	288	--	--	--

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5536	15	4	5513	12
6	5493	18	7	5525	21
16	5508	48	38	5507	114
17	5533	51	52	5533	156
22	5527	66	58	5521	174
33	5531	99	61	5503	183
50	5513	150	75	5528	225
51	5511	153	80	5539	240
55	5487	165	84	5540	252
74	5516	222	89	5514	267
82	5496	246	92	5532	276
83	5507	249	95	5483	285
86	5523	258	99	5489	297
96	5524	288	--	--	--
98	5486	294	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5511	9	7	5488	21
10	5509	30	14	5525	42
36	5528	108	17	5523	51
60	5516	180	19	5502	57
65	5515	195	22	5485	66
68	5508	204	36	5531	108
81	5505	243	47	5520	141
82	5487	246	73	5511	219
91	5536	273	88	5534	264
94	5496	282	96	5509	288
97	5489	291	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5524	21	8	5534	24
10	5523	30	12	5510	36
16	5517	48	23	5500	69
19	5495	57	29	5503	87
28	5522	84	31	5522	93
51	5496	153	41	5523	123
59	5490	177	47	5529	141
63	5540	189	51	5511	153
66	5489	198	54	5486	162
83	5506	249	61	5535	183
89	5505	267	62	5490	186
92	5494	276	64	5537	192
--	--	--	69	5489	207
--	--	--	72	5514	216
--	--	--	92	5504	276
--	--	--	93	5509	279
--	--	--	96	5524	288

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
27	5537	81	0	5544	0
46	5549	138	1	5494	3
54	5542	162	13	5521	39
62	5498	186	17	5545	51
65	5517	195	39	5503	117
71	5514	213	47	5519	141
--	--	--	48	5491	144
--	--	--	60	5502	180
--	--	--	66	5496	198
--	--	--	70	5509	210
--	--	--	76	5495	228
--	--	--	79	5518	237
--	--	--	83	5546	249
--	--	--	91	5517	273

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5549	18	15	5490	45
14	5545	42	33	5529	99
17	5492	51	36	5504	108
28	5507	84	38	5516	114
32	5496	96	40	5507	120
34	5550	102	46	5538	138
40	5524	120	50	5539	150
49	5522	147	78	5510	234
57	5509	171	79	5503	237
62	5493	186	86	5498	258
63	5535	189	--	--	--
72	5539	216	--	--	--
77	5513	231	--	--	--
87	5520	261	--	--	--
95	5541	285	--	--	--

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5524	15	0	5504	0
25	5547	75	1	5523	3
30	5516	90	9	5509	27
40	5502	120	24	5522	72
41	5515	123	35	5515	105
52	5556	156	50	5513	150
69	5528	207	62	5508	186
81	5544	243	80	5525	240
94	5534	282	81	5529	243
--	--	--	86	5535	258
--	--	--	89	5548	267

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
29	5513	87	9	5508	27
36	5539	108	27	5530	81
43	5532	129	30	5551	90
50	5546	150	41	5509	123
61	5506	183	45	5555	135
65	5518	195	46	5543	138
66	5541	198	53	5505	159
74	5558	222	68	5501	204
75	5540	225	79	5532	237
78	5515	234	86	5540	258
79	5528	237	--	--	--
83	5512	249	--	--	--



Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/06
Test Item	Radar Statistical Performance Check (802.11ax-HE80 mode – 5530MHz)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490	1	818	65	1
2	5490	1	658	81	1
3	5500	1	598	89	1
4	5500	1	558	95	1
5	5509	1	738	72	1
6	5509	1	778	68	1
7	5510	1	898	59	1
8	5510	1	878	61	1
9	5511	1	918	58	1
10	5511	1	938	57	1
11	5520	1	758	70	1
12	5520	1	618	86	1
13	5529	1	678	78	1
14	5529	1	3066	18	1
15	5530	1	518	102	1
16	5530	1	2103	26	1
17	5531	1	1904	28	1
18	5531	1	1213	44	1
19	5540	1	2635	21	1
20	5540	1	1716	31	1
21	5549	1	2549	21	1
22	5549	1	2995	18	1
23	5550	1	1970	27	1
24	5550	1	1420	38	1
25	5551	1	1480	36	1
26	5551	1	994	54	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5560	1	2222	24	1
28	5560	1	1869	29	1
29	5570	1	772	69	1
30	5570	1	2280	24	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	5490	3.5	212	28	1
2	5490	4.2	228	23	1
3	5500	2.2	206	26	1
4	5500	2.6	222	27	1
5	5509	4.4	173	24	1
6	5509	4.3	172	26	1
7	5510	2.3	158	26	1
8	5510	5.0	186	23	1
9	5511	3.0	182	26	1
10	5511	4.1	220	23	1
11	5520	3.5	160	29	1
12	5520	3.1	181	24	1
13	5529	2.7	202	27	1
14	5529	2.7	177	23	1
15	5530	4.6	217	28	1
16	5530	2.5	195	23	1
17	5531	4.9	165	25	1
18	5531	3.0	178	25	1
19	5540	5.0	153	26	1
20	5540	1.4	193	26	1
21	5549	5.0	201	24	1
22	5549	1.0	220	25	1
23	5550	1.1	197	26	1
24	5550	3.0	229	29	1
25	5551	2.9	172	29	1
26	5551	1.0	223	27	1
27	5560	4.2	183	26	1
28	5560	4.0	216	27	1
29	5570	2.3	229	26	1
30	5570	3.4	175	28	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	5490	7.1	346	16	1
2	5490	6.8	255	16	1
3	5500	6.9	365	17	1
4	5500	6.3	268	17	1
5	5509	9.0	480	17	1
6	5509	7.3	306	16	1
7	5510	9.5	323	17	1
8	5510	8.9	299	18	1
9	5511	10.0	496	17	1
10	5511	9.2	389	18	1
11	5520	6.4	480	17	1
12	5520	8.9	265	16	1
13	5529	6.4	446	17	1
14	5529	8.4	386	18	1
15	5530	6.7	262	16	1
16	5530	7.3	347	17	1
17	5531	7.8	461	18	1
18	5531	9.1	293	16	1
19	5540	10.0	464	18	1
20	5540	8.9	355	18	1
21	5549	7.3	392	17	1
22	5549	7.0	362	16	1
23	5550	9.7	328	17	1
24	5550	7.0	331	16	1
25	5551	8.7	436	16	1
26	5551	7.2	313	16	1
27	5560	10.0	267	18	1
28	5560	7.8	382	16	1
29	5570	8.4	367	18	1
30	5570	8.4	325	17	1
Detection Percentage (%)					100%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490	17.5	356	16	1
2	5490	16.3	442	13	1
3	5500	17.3	474	12	1
4	5500	11.3	298	12	1
5	5509	11.6	376	12	1
6	5509	18.7	469	12	1
7	5510	14.2	442	15	1
8	5510	17.3	486	14	1
9	5511	16.5	441	13	1
10	5511	16.8	267	14	1
11	5520	12.8	329	14	1
12	5520	18.1	445	14	1
13	5529	15.8	378	13	1
14	5529	12.3	368	13	1
15	5530	16.3	328	16	1
16	5530	11.4	398	16	1
17	5531	19.9	428	15	1
18	5531	18.4	401	13	1
19	5540	16.6	481	15	1
20	5540	19.1	390	13	1
21	5549	13.7	349	15	1
22	5549	17.5	480	12	1
23	5550	17.2	441	16	1
24	5550	19.3	428	16	1
25	5551	14.1	485	15	1
26	5551	11.1	448	16	1
27	5560	14.6	305	13	1
28	5560	11.2	370	12	1
29	5570	11.7	311	16	1
30	5570	17.3	334	12	1
Detection Percentage (%)					100%

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

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



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	5492.4	1	16	5530.0	1
2	5494.8	1	17	5530.0	1
3	5497.2	1	18	5530.0	1
4	5493.6	1	19	5530.0	1
5	5495.6	1	20	5530.0	1
6	5492.0	1	21	5566.0	1
7	5494.0	1	22	5564.4	1
8	5497.6	1	23	5567.6	1
9	5496.8	1	24	5568.0	1
10	5493.2	1	25	5566.8	1
11	5530.0	1	26	5563.2	1
12	5530.0	1	27	5562.4	1
13	5530.0	1	28	5566.4	1
14	5530.0	1	29	5562.8	1
15	5530.0	1	30	5565.2	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_1

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	356301	1	6	100	1295	0	0	356301	0	749999
2	612822	3	6	75	1576	1983	1176	970418	750000	1499999
3	539089	1	6	55	1423	0	0	1514242	1500000	2249999
4	856220	1	6	50	1894	0	0	2371885	2250000	2999999
5	868115	3	6	95	1123	1387	1763	3241894	3000000	3749999
6	1080659	1	6	55	1778	0	0	4326826	3750000	4499999
7	321482	1	6	90	1589	0	0	4650086	4500000	5249999
8	1049199	2	6	70	1525	1508	0	5700874	5250000	5999999
9	523134	2	6	90	1775	1246	0	6227041	6000000	6749999
10	948194	2	6	50	1686	1565	0	7178256	6750000	7499999
11	646379	1	6	95	1002	0	0	7827886	7500000	8249999
12	759431	3	6	85	1450	1609	1991	8588319	8250000	8999999
13	576386	3	6	85	1331	1582	1789	9169755	9000000	9749999
14	1064923	3	6	80	1244	1560	1510	10239380	9750000	10499999
15	791472	1	6	100	1420	0	0	11035166	10500000	11249999
16	952589	1	6	55	1522	0	0	11989175	11250000	11999999

Total number of pulses in waveform = 29

**Type 5 Radar Waveform_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	932712	3	12	75	1296	1711	1758	932712	0	999999
2	851142	3	12	60	1214	1614	1646	1788619	1000000	1999999
3	405622	3	12	75	1624	1672	1418	2198715	2000000	2999999
4	840566	3	12	80	1128	1567	1570	3043995	3000000	3999999
5	1592385	3	12	100	1659	1041	1269	4640645	4000000	4999999
6	1165346	3	12	50	1291	1340	1345	5809960	5000000	5999999
7	351694	1	12	85	1667	0	0	6165630	6000000	6999999
8	1623349	3	12	80	1344	1520	1537	7790646	7000000	7999999
9	228670	1	12	85	1896	0	0	8023717	8000000	8999999
10	1329657	2	12	90	1122	1340	0	9355270	9000000	9999999
11	1090633	1	12	50	1862	0	0	10448365	10000000	10999999
12	559548	2	12	100	1037	1536	0	11009775	11000000	11999999

Total number of pulses in waveform = 28

Type 5 Radar Waveform_3

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	94591	2	18	70	1908	1106	0	94591	0	599999
2	605881	1	18	60	1148	0	0	643588	600000	1199999
3	908278	1	18	90	1142	0	0	1553014	1200000	1799999
4	700510	2	18	75	1112	1310	0	2254666	1800000	2399999
5	540702	3	18	80	1023	1239	1353	2797790	2400000	2999999
6	563521	3	18	70	1591	1819	1587	3364926	3000000	3599999
7	bb7606	2	18	75	1110	1890	0	3927528	3600000	4199999
8	704427	1	18	55	1956	0	0	4634955	4200000	4799999
9	319746	1	18	65	1733	0	0	4956657	4800000	5399999
10	857382	1	18	100	1602	0	0	5615772	5400000	5999999
11	592711	2	18	100	1466	1114	0	6410285	6000000	6599999
12	252212	1	18	60	1250	0	0	6665077	6600000	7199999
13	1054597	2	18	85	1806	1626	0	7720924	7200000	7799999
14	158324	2	18	55	1004	1012	0	7882980	7800000	8399999
15	733684	1	18	85	1455	0	0	8618380	8400000	8999999
16	b14705	2	18	75	1591	1963	0	9134540	9000000	9599999
17	472764	3	18	75	1209	1871	1088	9610858	9600000	10199999
18	1033088	3	18	55	1351	1023	1455	10648114	10200000	10799999
19	482636	1	18	00	1798	0	0	11194579	10800000	11399999
20	828914	1	18	85	1971	0	0	11965291	11400000	11999999

Total number of pulses in waveform = 35

Type 5 Radar Waveform_4

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	477012	1	9	65	1026	0	0	477012	0	857142
2	720506	1	9	65	1690	0	0	1198544	857143	1714285
3	601313	3	9	55	1372	1208	1912	1801547	1714286	2571428
4	1301681	3	9	90	1449	1047	1992	3107720	2571429	3428571
5	613285	1	9	75	1575	0	0	3725493	3428572	4285714
6	1408239	1	9	80	1261	0	0	5135307	4285715	5142857
7	87046	3	9	65	1644	1497	1229	5223614	5142858	6000000
8	1267399	2	9	75	1953	1444	0	6495383	6000001	6857143
9	370931	1	9	55	1917	0	0	6869711	6857144	7714286
10	897962	2	9	75	1764	1198	0	7769590	7714287	8571429
11	896516	2	9	90	1990	1081	0	8669068	8571430	9428572
12	1563031	1	9	55	1946	0	0	10235170	9428573	10285715
13	141815	3	9	55	1784	1999	1527	10378931	10285716	11142858
14	1610907	3	9	90	1865	1074	1400	11995148	11142859	12000001

Total number of pulses in waveform = 27

**Type 5 Radar Waveform_5**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	606586	2	14	90	1818	1844	0	606586	0	857142
2	981398	3	14	65	1258	1314	1292	1591646	857143	1714285
3	758706	3	14	75	1294	1955	1945	2354216	1714286	2571428
4	933039	3	14	85	1459	1203	1023	3292449	2571429	3428571
5	967986	1	14	85	1613	0	0	4264120	3428572	4285714
6	658416	1	14	70	1134	0	0	4924149	4285715	5142857
7	731266	2	14	50	1980	1901	0	5656549	5142858	6000000
8	1133846	3	14	95	1560	1925	1104	6794276	6000001	6857143
9	647482	3	14	75	1156	1244	1384	7446347	6857144	7714286
10	621843	3	14	50	1088	1751	1763	8071974	7714287	8571429
11	1039226	1	14	55	1206	0	0	9115802	8571430	9428572
12	578502	2	14	85	1622	1818	0	9695510	9428573	10285715
13	1292742	1	14	55	1099	0	0	10991692	10285716	11142858
14	320476	3	14	80	1495	1915	1190	11313267	11142859	12000001

Total number of pulses in waveform = 31

Type 5 Radar Waveform_6Num 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	541866	1	5	90	1637	0	0	541866	0	799999
2	603405	3	5	65	1769	1364	1215	1146908	800000	1599999
3	829579	2	5	100	1985	1840	0	1980835	1600000	2399999
4	1109176	2	5	85	1545	1496	0	3093836	2400000	3199999
5	598011	1	5	55	1784	0	0	3694888	3200000	3999999
6	452327	2	5	100	1885	1612	0	4148999	4000000	4799999
7	780838	3	5	90	1139	1293	1679	4933334	4800000	5599999
8	1416558	1	5	75	1658	0	0	6354003	5600000	6399999
9	128919	3	5	65	1737	1938	1180	6484580	6400000	7199999
10	1359389	3	5	85	1089	1484	1295	7848824	7200000	7999999
11	828030	2	5	85	1717	1085	0	8680722	8000000	8799999
12	298499	2	5	80	1629	1468	0	8982023	8800000	9599999
13	792186	1	5	80	1478	0	0	9777306	9600000	10399999
14	1267075	3	5	95	1465	1604	1700	11045859	10400000	11199999
15	797185	2	5	85	1675	1572	0	11847813	11200000	11999999

Total number of pulses in waveform = 31

Type 5 Radar Waveform_7Num 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	734054	2	10	50	1315	1843	0	734054	0	1499999
2	1730802	1	10	85	1167	0	0	2468014	1500000	2999999
3	1230646	2	10	80	1696	1202	0	3699827	3000000	4499999
4	1535673	2	10	90	1752	1093	0	5238398	4500000	5999999
5	2182304	3	10	85	1252	1466	1622	7423547	6000000	7499999
6	142230	1	10	80	1201	0	0	7570117	7500000	8999999
7	2360120	1	10	50	1279	0	0	9931438	9000000	10499999
8	1301055	1	10	65	1616	0	0	11233772	10500000	11999999

Total number of pulses in waveform = 13

**Type 5 Radar Waveform_8**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	329887	3	19	55	1509	1935	1065	329887	0	857142
2	977533	2	19	60	1654	1942	0	1311929	857143	1714285
3	882226	1	19	85	1568	0	0	2197751	1714286	2571428
4	1198721	2	19	60	1506	1477	0	3398040	2571429	3428571
5	47969	3	19	55	1598	1280	1692	3448992	3428572	4285714
6	1386549	2	19	60	1159	1748	0	4840111	4285715	5142857
7	532044	2	19	60	1211	1212	0	5375062	5142858	6000000
8	865576	1	19	70	1282	0	0	6243061	6000001	6857143
9	1319156	1	19	50	1376	0	0	7563479	6857144	7714286
10	468166	3	19	85	1799	1973	1417	8033021	7714287	8571429
11	1141411	1	19	65	1500	0	0	9179621	8571430	9428572
12	350539	1	19	70	1470	0	0	9531660	9428573	10285715
13	894869	1	19	80	1553	0	0	10427999	10285716	11142858
14	786587	2	19	55	1516	1932	0	11216139	11142859	12000001

Total number of pulses in waveform = 25

Type 5 Radar Waveform_9Num 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	725419	2	17	70	1630	1122	0	725419	0	749999
2	309693	3	17	90	1860	1733	1619	1037864	750000	1499999
3	528889	3	17	90	1354	1042	1129	1571965	1500000	2249999
4	1140478	2	17	95	1048	1595	0	2715968	2250000	2999999
5	824927	3	17	50	1773	1336	1030	3543538	3000000	3749999
6	691322	2	17	60	1967	1911	0	4238999	3750000	4499999
7	719831	2	17	75	1409	1732	0	4962708	4500000	5249999
8	359838	2	17	55	1644	1112	0	5325687	5250000	5999999
9	1030633	2	17	95	1401	1225	0	6359076	6000000	6749999
10	1128842	3	17	85	1541	1174	1407	7490544	6750000	7499999
11	733894	1	17	50	1437	0	0	8228560	7500000	8249999
12	508175	2	17	85	1013	1716	0	8738172	8250000	8999999
13	433385	2	17	80	1657	1800	0	9174286	9000000	9749999
14	720302	2	17	95	1782	1263	0	9898045	9750000	10499999
15	657184	3	17	60	1967	1116	1292	10558274	10500000	11249999
16	856248	1	17	55	1735	0	0	11418897	11250000	11999999

Total number of pulses in waveform = 35

Type 5 Radar Waveform_10Num 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	147889	2	8	85	1978	1271	0	147889	0	705881
2	1054754	2	8	70	1338	1374	0	1205892	705882	1411763
3	203824	1	8	70	1531	0	0	1412428	1411764	2117645
4	1003297	2	8	85	1187	1492	0	2417256	2117646	2823527
5	800339	3	8	80	1843	1800	1562	3220274	2823528	3529409
6	566784	1	8	65	1035	0	0	3792263	3529410	4235291
7	448549	3	8	85	1271	1838	1222	4241847	4235292	4941173
8	769497	1	8	75	1986	0	0	5015675	4941174	5647055
9	1006944	3	8	65	1637	1117	1006	6024605	5647056	6352937
10	927302	3	8	65	1920	1826	1776	6955667	6352938	7058819
11	606967	3	8	95	1616	1737	1859	7568156	7058820	7764701
12	769561	2	8	50	1532	1712	0	8342929	7764702	8470583
13	709721	3	8	80	1644	1311	1593	9055894	8470584	9176465
14	250827	1	8	80	1039	0	0	9311269	9176466	9882347
15	739384	2	8	90	1488	1395	0	10051692	9882348	10588229
16	1017176	3	8	65	1872	1411	1072	11071751	10588230	11294111
17	874053	3	8	85	1847	1648	1185	11950159	11294112	11999993

Total number of pulses in waveform = 38



Type 5 Radar Waveform_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	527862	2	5	65	1332	1452	0	527862	0	1090908
2	931063	2	5	75	1773	1462	0	1461709	1090909	2181817
3	891364	2	5	100	1625	1693	0	2356308	2181818	3272726
4	1531321	3	5	85	1356	1176	1558	3890947	3272727	4363635
5	816971	1	5	55	1742	0	0	4712008	4363636	5454544
6	1194835	1	5	50	1040	0	0	5908585	5454545	6545453
7	1004010	3	5	50	1255	1709	1954	6913635	6545454	7636362
8	1080674	1	5	50	1007	0	0	7999227	7636363	8727271
9	1642564	1	5	90	1098	0	0	9642798	8727272	9818180
10	945615	1	5	75	1841	0	0	10589511	9818181	10909089
11	444352	2	5	70	1605	1053	0	11035704	10909090	11999998

Total number of pulses in waveform = 19

ype 5 Radar Waveform_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	320083	1	6	95	1369	0	0	320083	0	705881
2	875735	1	6	95	1353	0	0	1197187	705882	1411763
3	876742	1	6	65	1383	0	0	2075282	1411764	2117645
4	209644	1	6	85	1990	0	0	2286309	2117646	2823527
5	810673	3	6	95	1617	1818	1980	3098972	2823528	3529409
6	683634	3	6	75	1125	1024	1726	3788021	3529410	4235291
7	534636	2	6	65	1235	1262	0	4326532	4235292	4941173
8	807475	2	6	95	1005	1561	0	5136504	4941174	5647055
9	776122	1	6	80	1101	0	0	5915192	5647056	6352937
10	474152	2	6	60	1472	1701	0	6390445	6352938	7058819
11	1057372	3	6	55	1513	1363	1081	7450990	7058820	7764701
12	772793	3	6	75	1893	1046	1885	8227740	7764702	8470583
13	709907	3	6	65	1182	1172	1078	8942471	8470584	9176465
14	723196	1	6	60	1934	0	0	9669099	9176466	9882347
15	849187	3	6	85	1223	1536	1285	10520220	9882348	10588229
16	662495	2	6	95	1363	1867	0	11186759	10588230	11294111
17	524184	1	6	100	1361	0	0	11714173	11294112	11999993

Total number of pulses in waveform = 33

Type 5 Radar Waveform_13

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	246833	1	8	95	1271	0	0	246833	0	1090908
2	1173652	1	8	85	1017	0	0	1421756	1090909	2181817
3	1072773	1	8	80	1628	0	0	2495546	2181818	3272726
4	1794782	3	8	50	1002	1909	1159	4291956	3272727	4363635
5	682778	3	8	60	1406	1525	1140	4978804	4363636	5454544
6	881095	3	8	90	1272	1974	1217	5863970	5454545	6545453
7	1317737	2	8	90	1015	1598	0	7186170	6545454	7636362
8	601410	1	8	95	1954	0	0	7790193	7636363	8727271
9	1166549	3	8	90	1060	1023	1941	8958696	8727272	9818180
10	1303928	1	8	85	1293	0	0	10266648	9818181	10909089
11	1244699	3	8	75	1350	1485	1315	11512640	10909090	11999998

Total number of pulses in waveform = 22



Type 5 Radar Waveform_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	573567	1	10	70	1344	0	0	573567	0	799999
2	870828	2	10	90	1433	1643	0	1445739	800000	1599999
3	334956	2	10	65	1600	1302	0	1783771	1600000	2399999
4	670697	2	10	100	1287	1444	0	2457370	2400000	3199999
5	962630	2	10	100	1372	1427	0	3422731	3200000	3999999
6	663960	3	10	95	1985	1170	1184	4089490	4000000	4799999
7	1443012	2	10	90	1727	1277	0	5536841	4800000	5599999
8	673134	2	10	85	1956	1690	0	6212979	5600000	6399999
9	822197	2	10	80	1389	1095	0	7038822	6400000	7199999
10	515290	2	10	90	1634	1017	0	7556596	7200000	7999999
11	578081	2	10	60	1895	1735	0	8137328	8000000	8799999
12	1447620	2	10	95	1480	1282	0	9588578	8800000	9599999
13	462390	2	10	95	1370	1246	0	10053730	9600000	10399999
14	607282	1	10	55	1192	0	0	10663628	10400000	11199999
15	697984	1	10	90	1646	0	0	11362804	11200000	11999999

Total number of pulses in waveform = 28

Type 5 Radar Waveform_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	150822	2	18	60	1816	1707	0	150822	0	631578
2	650207	3	18	50	1599	1045	1032	804552	631579	1263157
3	664413	2	18	100	1139	1444	0	1472641	1263158	1894736
4	788098	1	18	90	1752	0	0	2263322	1894737	2526315
5	606038	2	18	80	1194	1336	0	2871712	2526316	3157894
6	463450	3	18	80	1010	1017	1993	3327692	3157895	3789473
7	604254	1	18	50	1717	0	0	3935986	3789474	4421052
8	622952	3	18	95	1843	1046	1081	4560635	4421053	5052651
9	501861	2	18	60	1795	1889	0	5066466	5052652	5684210
10	938085	1	18	100	1099	0	0	6006235	5684211	6315789
11	465730	3	18	75	1935	1665	1173	6463064	6315790	6947368
12	760569	1	18	60	1599	0	0	7228406	6947369	7578947
13	853589	2	18	75	1235	1733	0	8063694	7578948	8210526
14	424853	2	18	90	1627	1495	0	8511415	8210527	8842105
15	772170	1	18	90	1804	0	0	9286607	8842106	9473684
16	732028	2	18	75	1836	1102	0	10020439	9473685	10105283
17	576325	3	18	65	1758	1790	1820	10599702	10105284	10736842
18	519479	2	18	60	1031	1798	0	11124549	10736843	11368421
19	247617	3	18	65	1005	1328	1549	11374995	11368422	12000000

Total number of pulses in waveform = 39

Type 5 Radar Waveform_16

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	410329	2	17	95	1098	1433	0	410329	0	705881
2	359527	2	17	95	1575	1113	0	772387	705882	1411763
3	1037754	2	17	85	1986	1062	0	1812829	1411764	2117645
4	815246	2	17	90	1462	1633	0	2631123	2117646	2823527
5	377110	3	17	50	1841	1370	1776	3011328	2823528	3529409
6	759824	2	17	60	1637	1835	0	3776139	3529410	4235291
7	925198	2	17	60	1322	1239	0	4704869	4235292	4941173
8	447835	3	17	50	1467	1353	1055	5155265	4941174	5647055
9	508082	1	17	60	1920	0	0	5667222	5647056	6352937
10	786065	1	17	55	1804	0	0	6455207	6352938	7058819
11	643623	1	17	65	1274	0	0	7100634	7058820	7764701
12	944108	3	17	70	1956	1506	1123	8046016	7764702	8470583
13	698210	2	17	85	1398	1765	0	8748811	8470584	9176465
14	556351	3	17	75	1900	1504	1317	9308325	9176466	9882347
15	1010598	1	17	80	1175	0	0	10323644	9882348	10588229
16	829268	3	17	75	1317	1053	1015	11154087	10588230	11294111
17	191956	3	17	85	1901	1788	1921	11349428	11294112	11999993

Total number of pulses in waveform = 36

**Type 5 Radar Waveform_17**

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	715624	3	12	100	1186	1516	1481	715624	0	1090908
2	1144450	1	12	90	1983	0	0	1864257	1090909	2181817
3	1133567	3	12	80	1163	1890	1196	2999807	2181818	3272726
4	757109	3	12	65	1873	1471	1135	3761165	3272727	4363635
5	922401	2	12	90	1152	1535	0	4688045	4363636	5454544
6	1572650	3	12	65	1782	1663	1247	6263382	5454545	6545453
7	1187734	3	12	65	1622	1292	1715	7455808	6545454	7636362
8	752782	1	12	80	1013	0	0	8213219	7636363	8727271
9	1437369	3	12	95	1810	1130	1747	9651601	8727272	9818180
10	815625	2	12	95	1234	1862	0	10471913	9818181	10909089
11	1361033	3	12	60	1070	1978	1756	11836042	10909090	11999998

Total number of pulses in waveform = 27

Type 5 Radar Waveform_18

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	110474	3	14	90	1689	1659	1601	110474	0	705881
2	1157508	2	14	90	1372	1569	0	1272931	705882	1411763
3	454646	1	14	90	1902	0	0	1730518	1411764	2117645
4	563746	2	14	65	1866	1306	0	2296166	2117646	2823527
5	1150701	1	14	85	1540	0	0	3450039	2823528	3529409
6	702883	1	14	90	1660	0	0	4154462	3529410	4235291
7	555629	1	14	100	1744	0	0	4711751	4235292	4941173
8	589320	1	14	50	1328	0	0	5302815	4941174	5647055
9	560626	2	14	85	1114	1861	0	5864769	5647056	6352937
10	806406	3	14	80	1849	1430	1665	6674150	6352938	7058819
11	541756	1	14	80	1483	0	0	7220850	7058820	7764701
12	1094967	2	14	80	1520	1194	0	8317300	7764702	8470583
13	154060	2	14	100	1637	1712	0	8474074	8470584	9176465
14	1270791	2	14	90	1371	1204	0	9748214	9176466	9882347
15	606598	1	14	55	1919	0	0	10357387	9882348	10588229
16	768794	2	14	50	1166	1446	0	11128100	10588230	11294111
17	182769	2	14	55	1193	1175	0	11313481	11294112	11999993

Total number of pulses in waveform = 29

Type 5 Radar Waveform_19

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	764862	3	19	75	1311	1258	1527	764862	0	923076
2	1063636	1	19	85	1807	0	0	1832594	923077	1846153
3	802129	1	19	50	1210	0	0	2636530	1846154	2769230
4	325408	2	19	85	1332	1353	0	2963148	2769231	3692307
5	1599660	2	19	55	1946	1456	0	4565493	3692308	4615384
6	768589	2	19	75	1157	1978	0	5337484	4615385	5538461
7	805261	1	19	90	1427	0	0	6145880	5538462	6461538
8	601386	1	19	60	1806	0	0	6748693	6461539	7384615
9	1026529	1	19	70	1706	0	0	7777028	7384616	8307692
10	919119	1	19	70	1749	0	0	8697853	8307693	9230769
11	1116524	3	19	100	1908	1274	1379	9816126	9230770	10153846
12	614323	2	19	80	1647	1771	0	10435010	10153847	11076923
13	1087922	3	19	70	1192	1270	1775	11526350	11076924	12000000

Total number of pulses in waveform = 23



Type 5 Radar Waveform_20

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	142880	3	9	85	1296	1588	1439	142880	0	999999
2	1818227	3	9	50	1623	1958	1591	1965430	1000000	1999999
3	206407	2	9	85	1930	1327	0	2177009	2000000	2999999
4	1265412	2	9	80	1524	1620	0	3445678	3000000	3999999
5	605624	1	9	75	1157	0	0	4054446	4000000	4999999
6	1483263	2	9	55	1772	1992	0	5538866	5000000	5999999
7	1110247	2	9	95	1191	1657	0	6652877	6000000	6999999
8	627587	1	9	60	1718	0	0	7283312	7000000	7999999
9	726640	1	9	80	1039	0	0	8011670	8000000	8999999
10	1920418	1	9	70	1344	0	0	9933127	9000000	9999999
11	800031	2	9	50	1886	1924	0	10734502	10000000	10999999
12	889682	2	9	80	1872	1192	0	11627994	11000000	11999999

Total number of pulses in waveform = 22

Type 5 Radar Waveform_21

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	270184	3	10	50	1648	1404	1693	270184	0	799999
2	935184	1	10	100	1796	0	0	1210113	800000	1599999
3	559116	1	10	90	1053	0	0	1771025	1600000	2399999
4	1027194	3	10	85	1667	1174	1082	2799272	2400000	3199999
5	661349	2	10	100	1123	1834	0	3464544	3200000	3999999
6	540198	1	10	100	1778	0	0	4007699	4000000	4799999
7	1150341	1	10	70	1431	0	0	5159818	4800000	5599999
8	804019	3	10	80	1045	1780	1359	5965268	5600000	6399999
9	981140	1	10	50	1213	0	0	6950592	6400000	7199999
10	272557	3	10	60	1645	1406	1949	7224362	7200000	7999999
11	1248946	1	10	85	1732	0	0	8478308	8000000	8799999
12	457600	2	10	75	1377	1062	0	8937640	8800000	9599999
13	933448	2	10	75	1890	1911	0	9873527	9600000	10399999
14	531863	1	10	55	1216	0	0	10409191	10400000	11199999
15	818064	3	10	50	1650	1932	1692	11228471	11200000	11999999

Total number of pulses in waveform = 28

Type 5 Radar Waveform_22

Num of Bursts = 18
Burst Interval (us)= 886667

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	156976	3	14	65	1020	1699	1257	156976	0	666666
2	1049491	1	14	55	1885	0	0	1203383	666667	1333333
3	698499	1	14	50	1462	0	0	1903767	1333334	2000000
4	172758	1	14	95	1298	0	0	2077987	2000001	2666667
5	1011869	3	14	100	1671	1464	1187	3090954	2666668	3333334
6	775791	2	14	80	1857	1216	0	3871067	3333335	4000001
7	322651	3	14	80	1741	1651	1121	4196791	4000002	4666668
8	993951	2	14	95	1872	1770	0	5194665	4666669	5333335
9	798501	2	14	90	1345	1254	0	5996908	5333336	6000002
10	606393	3	14	60	1749	1504	1240	6535900	6000003	6666669
11	108688	1	14	55	1795	0	0	6749061	6666670	7333336
12	615680	3	14	50	1686	1439	1949	7365536	7333337	8000003
13	742234	1	14	50	1471	0	0	8113844	8000004	8666670
14	1087515	1	14	50	1928	0	0	9182836	8666671	9333337
15	419740	2	14	70	1589	1664	0	9604488	9333338	10000004
16	421221	2	14	70	1095	1611	0	10028972	10000005	10666671
17	1165742	2	14	50	1164	1861	0	11197420	10666672	11333338
18	463737	1	14	95	1494	0	0	11664182	11333339	12000005

Total number of pulses in waveform = 34



Type 5 Radar Waveform_23

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	539582	3	6	85	1371	1167	1851	539582	0	705881	
2	189876	2	6	80	1151	1892	0	733847	705882	1411763	
3	1035025	2	6	95	1660	1613	0	1771915	1411764	2117645	
4	971494	3	6	80	1597	1009	1076	2746682	2117646	2823527	
5	626196	2	6	100	1376	1024	0	3376560	2823528	3529409	
6	565852	1	6	85	1298	0	0	3944812	3529410	4235291	
7	584187	3	6	75	1995	1756	1140	4530297	4235292	4941173	
8	1039070	3	6	80	1803	1633	1922	5574258	4941174	5647055	
9	427807	3	6	80	1161	1903	1635	6007423	5647056	6352937	
10	371337	3	6	85	1734	1234	1309	6383459	6352938	7058819	
11	818797	3	6	70	1755	1108	1939	7206533	7058820	7764701	
12	1004976	3	6	95	1002	1993	1717	8216311	7764702	8470583	
13	726989	3	6	85	1316	1923	1868	8948012	8470584	9176465	
14	779279	2	6	75	1362	1670	0	9732398	9176466	9882347	
15	422111	3	6	95	1810	1340	1613	10157541	9882348	10588229	
16	704688	3	6	80	1952	1132	1141	10866992	10588230	11294111	
17	1002959	3	6	50	1594	1173	1937	11874176	11294112	11999993	

Total number of pulses in waveform = 45

Type 5 Radar Waveform_24

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	178778	3	5	100	1456	1038	1480	178778	0	631578	
2	719940	2	5	60	1888	1077	0	900092	631579	1263157	
3	950359	1	5	85	1132	0	0	1853416	1263158	1894736	
4	573846	2	5	95	1862	1473	0	2428394	1894737	2526315	
5	644724	1	5	80	1132	0	0	3076453	2526316	3157894	
6	695266	3	5	60	1969	1111	1868	3772851	3157895	3789473	
7	34820	3	5	50	1121	1300	1168	3812619	3789474	4421052	
8	1024389	3	5	90	1051	1968	1865	4840597	4421053	5052531	
9	427202	2	5	80	1102	1362	0	5272683	5052532	5684210	
10	775543	1	5	80	1448	0	0	6050690	5684211	6315789	
11	272063	3	5	85	1654	1113	1694	6324201	6315790	6947368	
12	712121	1	5	100	1882	0	0	7040783	6947369	7578947	
13	845947	1	5	90	1634	0	0	7888612	7578948	8210526	
14	611994	2	5	70	1197	1326	0	8502240	8210527	8842105	
15	618366	2	5	75	1314	1132	0	9123129	8842106	9473684	
16	652359	3	5	90	1529	1981	1303	9777934	9473685	10105263	
17	633754	3	5	95	1318	1403	1219	10416501	10105264	10738942	
18	370612	3	5	75	1842	1984	1845	10791063	10738943	11368421	
19	636563	3	5	80	1973	1409	1172	11433287	11368422	12000000	

Total number of pulses in waveform = 42

Type 5 Radar Waveform_25

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	77722	2	8	80	1562	1622	0	77722	0	799999	
2	737182	1	8	100	1836	0	0	818088	800000	1599999	
3	1540176	2	8	75	1091	1612	0	2360100	1600000	2399999	
4	673460	2	8	90	1560	1580	0	3036263	2400000	3199999	
5	850909	3	8	70	1883	1146	1365	3890312	3200000	3999999	
6	588330	1	8	50	1690	0	0	4483036	4000000	4799999	
7	728883	3	8	50	1937	1574	1074	5213609	4800000	5599999	
8	885214	3	8	90	1759	1602	1065	6103408	5600000	6399999	
9	809573	1	8	55	1882	0	0	6917407	6400000	7199999	
10	374749	2	8	60	1708	1961	0	7294038	7200000	7999999	
11	1375542	3	8	75	1868	1842	1774	8673249	8000000	8799999	
12	773408	3	8	75	1664	1315	1079	9452141	8800000	9599999	
13	152272	3	8	60	1889	1802	1703	9608471	9600000	10399999	
14	973187	1	8	65	1781	0	0	10587052	10400000	11199999	
15	1072313	3	8	75	1937	1458	1081	11661146	11200000	11999999	

Total number of pulses in waveform = 33



Type 5 Radar Waveform_26

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	110474	3	17	90	1689	1659	1601	110474	0	705881
2	1157508	2	17	90	1372	1569	0	1272931	705882	1411763
3	454646	1	17	90	1902	0	0	1730518	1411764	2117645
4	563746	2	17	65	1866	1306	0	2296166	2117646	2823527
5	1150701	1	17	85	1540	0	0	3450039	2823528	3529409
6	702883	1	17	90	1660	0	0	4154462	3529410	4235291
7	555629	1	17	100	1744	0	0	4711751	4235292	4941173
8	589320	1	17	50	1328	0	0	5302815	4941174	5647055
9	560626	2	17	85	1114	1861	0	5864769	5647056	6352937
10	806406	3	17	80	1849	1430	1665	6674150	6352938	7058819
11	541756	1	17	80	1483	0	0	7220850	7058820	7764701
12	1094967	2	17	80	1520	1194	0	8317300	7764702	8470583
13	154060	2	17	100	1637	1712	0	8474074	8470584	9176465
14	1270791	2	17	90	1371	1204	0	9748214	9176466	9882347
15	606598	1	17	55	1919	0	0	10357387	9882348	10588229
16	768794	2	17	50	1166	1446	0	11128100	10588230	11294111
17	182769	2	17	55	1193	1175	0	11313481	11294112	11999993
Total number of pulses in waveform = 29 *****										

Type 5 Radar Waveform_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	764862	3	19	75	1311	1258	1527	764862	0	923076
2	1063636	1	19	85	1807	0	0	1832594	923077	1846153
3	802129	1	19	50	1210	0	0	2636530	1846154	2769230
4	325408	2	19	85	1332	1353	0	2963148	2769231	3692307
5	1599660	2	19	55	1946	1456	0	4565493	3692308	4615384
6	768589	2	19	75	1157	1978	0	5337484	4615385	5538461
7	805261	1	19	90	1427	0	0	6145880	5538462	6461538
8	601386	1	19	60	1806	0	0	6748693	6461539	7384615
9	1026529	1	19	70	1706	0	0	7777028	7384616	8307692
10	919119	1	19	70	1749	0	0	8697853	8307693	9230769
11	1116524	3	19	100	1908	1274	1379	9816126	9230770	10153846
12	614323	2	19	80	1647	1771	0	10435010	10153847	11076923
13	1087922	3	19	70	1192	1270	1775	11526350	11076924	12000000
Total number of pulses in waveform = 23 *****										

Type 5 Radar Waveform_28

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	884103	3	9	85	1228	1790	1832	884103	0	923076
2	849031	2	9	100	1990	1859	0	1737984	923077	1846153
3	128317	1	9	100	1625	0	0	1870150	1846154	2769230
4	947896	1	9	95	1269	0	0	2819671	2769231	3692307
5	1329808	1	9	90	1107	0	0	4150748	3692308	4615384
6	619322	3	9	70	1464	1762	1632	4771177	4615385	5538461
7	1139047	3	9	85	1652	1314	1940	5915082	5538462	6461538
8	697554	2	9	90	1172	1756	0	6617542	6461539	7384615
9	1598998	2	9	85	1785	1777	0	8219468	7384616	8307692
10	642352	2	9	65	1124	1046	0	8865382	8307693	9230769
11	666323	3	9	85	1561	1983	1441	9533875	9230770	10153846
12	948852	2	9	90	1127	1031	0	10487712	10153847	11076923
13	1359597	2	9	55	1389	1205	0	11849467	11076924	12000000
Total number of pulses in waveform = 27 *****										

**Type 5 Radar Waveform_29**

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	559124	2	18	70	1692	1815	0	559124	0	1090908
2	1531540	2	18	75	1740	1071	0	2094171	1090909	2181817
3	393112	3	18	65	1388	1103	1267	2490094	2181818	3272726
4	1213442	2	18	50	1205	1908	0	3707294	3272727	4363635
5	669494	1	18	60	1171	0	0	4379901	4363636	5454544
6	1402336	3	18	85	1556	1181	1418	5783408	5454545	6545453
7	1754029	1	18	50	1862	0	0	7541592	6545454	7636362
8	632266	1	18	60	1681	0	0	8175720	7636363	8727271
9	875707	1	18	55	1896	0	0	9053108	8727272	9818180
10	819758	2	18	60	1370	1082	0	9874762	9818181	10909089
11	1841086	1	18	95	1306	0	0	11718300	10909090	11999998

Total number of pulses in waveform = 19

Type 5 Radar Waveform_30

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	1083025	2	12	70	1346	1965	0	1083025	0	1499999
2	548356	1	12	70	1594	0	0	1634692	1500000	2999999
3	2450456	1	12	80	1383	0	0	4086742	3000000	4499999
4	874956	2	12	65	1224	1384	0	4963081	4500000	5999999
5	2061112	3	12	55	1723	1435	1890	7026801	6000000	7499999
6	562090	1	12	50	1647	0	0	7593939	7500000	8999999
7	2154065	2	12	70	1778	1376	0	9749651	9000000	10499999
8	1681841	1	12	55	1793	0	0	11434646	10500000	11999999

Total number of pulses in waveform = 13

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	5490	1	16	5530	1
2	5490	1	17	5531	1
3	5500	1	18	5531	1
4	5500	1	19	5540	1
5	5509	1	20	5540	1
6	5509	1	21	5549	1
7	5510	1	22	5549	1
8	5510	1	23	5550	1
9	5511	1	24	5550	1
10	5511	1	25	5551	1
11	5520	1	26	5551	1
12	5520	1	27	5560	1
13	5529	1	28	5560	1
14	5529	1	29	5570	1
15	5530	1	30	5570	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5485	21	23	5493	69
13	5517	39	37	5481	111
21	5462	63	42	5505	126
28	5460	84	46	5491	138
36	5500	108	49	5499	147
47	5488	141	58	5469	174
55	5466	165	67	5477	201
64	5487	192	71	5516	213
66	5475	198	90	5512	270
72	5461	216	--	--	--
76	5498	228	--	--	--
85	5504	255	--	--	--
89	5486	267	--	--	--
99	5519	297	--	--	--

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5475	9	21	5491	63
14	5493	42	45	5482	135
20	5495	60	49	5486	147
29	5519	87	59	5525	177
30	5525	90	68	5478	204
44	5476	132	70	5515	210
51	5474	153	86	5481	258
57	5521	171	90	5506	270
66	5500	198	--	--	--
72	5471	216	--	--	--
88	5479	264	--	--	--
94	5494	282	--	--	--

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5539	33	16	5520	48
12	5508	36	18	5480	54
15	5531	45	20	5495	60
16	5537	48	24	5489	72
20	5536	60	34	5482	102
22	5507	66	36	5519	108
23	5521	69	40	5534	120
39	5503	117	45	5504	135
42	5517	126	47	5511	141
57	5499	171	52	5514	156
58	5524	174	53	5491	159
60	5491	180	56	5492	168
63	5495	189	64	5483	192
76	5513	228	65	5539	195
94	5498	282	74	5512	222
--	--	--	90	5487	270
--	--	--	93	5531	279

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
17	5504	51	20	5500	60
23	5517	69	28	5495	84
26	5516	78	33	5530	99
29	5498	87	44	5496	132
36	5528	108	47	5516	141
45	5484	135	49	5518	147
67	5526	201	51	5497	153
75	5511	225	58	5535	174
77	5507	231	73	5486	219
80	5485	240	81	5482	243
81	5501	243	98	5540	294
82	5509	246	99	5491	297
89	5483	267	--	--	--
90	5521	270	--	--	--
93	5505	279	--	--	--
98	5502	294	--	--	--

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
0	5489	0	3	5494	9
5	5498	15	16	5539	48
6	5501	18	39	5538	117
38	5535	114	41	5509	123
43	5525	129	67	5485	201
44	5490	132	86	5513	258
56	5514	168	87	5529	261
69	5482	207	88	5502	264
80	5497	240	91	5506	273
94	5541	282	98	5531	294

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)

25	5523	75	4	5506	12
28	5514	84	5	5515	15
31	5500	93	11	5543	33
33	5516	99	20	5544	60
48	5535	144	23	5534	69
49	5543	147	32	5507	96
67	5550	201	33	5541	99
81	5526	243	38	5536	114
86	5518	258	39	5531	117
90	5506	270	44	5513	132
94	5546	282	66	5492	198
96	5528	288	68	5500	204
--	--	--	73	5542	219
--	--	--	82	5514	246
--	--	--	85	5533	255
--	--	--	90	5535	270
--	--	--	97	5528	291

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5503	6	2	5512	6
3	5508	9	9	5542	27
14	5524	42	14	5552	42
25	5512	75	15	5513	45
30	5556	90	20	5537	60
37	5511	111	24	5543	72
42	5549	126	26	5554	78
59	5529	177	27	5539	81
60	5552	180	28	5548	84
64	5531	192	32	5553	96
77	5501	231	38	5557	114
93	5525	279	53	5517	159
--	--	--	70	5510	210
--	--	--	77	5549	231
--	--	--	78	5547	234
--	--	--	85	5505	255

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5524	27	0	5525	0
21	5515	63	3	5538	9
22	5529	66	16	5523	48
34	5506	102	19	5539	57
50	5556	150	20	5518	60
59	5541	177	39	5529	117
67	5534	201	46	5520	138
82	5550	246	51	5534	153
83	5546	249	72	5559	216
86	5508	258	89	5522	267
87	5549	261	90	5521	270
98	5517	294	98	5550	294

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5531	18	1	5534	3
8	5513	24	14	5507	42
11	5518	33	27	5533	81
13	5532	39	32	5505	96
14	5541	42	43	5532	129
15	5560	45	54	5541	162
16	5552	48	65	5521	195
26	5501	78	70	5531	210
33	5529	99	72	5501	216
45	5561	135	84	5548	252
49	5533	147	98	5555	294
51	5538	153	--	--	--
57	5520	171	--	--	--
60	5534	180	--	--	--
70	5559	210	--	--	--
73	5505	219	--	--	--
82	5558	246	--	--	--
89	5548	267	--	--	--
93	5526	279	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5525	6	0	5567	0
6	5518	18	13	5532	39
11	5536	33	15	5555	45
25	5537	75	17	5549	51
40	5563	120	20	5539	60
44	5567	132	24	5548	72
48	5569	144	32	5527	96
50	5560	150	35	5557	105
61	5524	183	38	5537	114
73	5532	219	42	5534	126
88	5514	264	64	5566	192
93	5559	279	84	5560	252
97	5546	291	86	5550	258
--	--	--	89	5515	267

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5533	33	3	5579	9
25	5561	75	14	5546	42
40	5530	120	19	5525	57
45	5536	135	22	5521	66
47	5527	141	23	5555	69
49	5541	147	35	5531	105
50	5565	150	46	5569	138
53	5545	159	54	5553	162
56	5544	168	65	5541	195
74	5551	222	66	5547	198
78	5578	234	77	5536	231
79	5562	237	95	5538	285

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5520	33	1	5522	3
12	5550	36	8	5563	24
16	5577	48	9	5553	27
21	5580	63	20	5520	60
41	5547	123	21	5572	63
42	5571	126	25	5576	75
46	5558	138	37	5527	111
50	5554	150	54	5561	162
58	5574	174	68	5532	204
63	5562	189	74	5545	222
66	5546	198	75	5524	225
76	5539	228	90	5538	270
79	5556	237	97	5566	291
81	5559	243	--	--	--
91	5567	273	--	--	--

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
12	5537	36	24	5556	72
13	5560	39	59	5540	177
18	5570	54	61	5562	183
20	5523	60	67	5560	201
25	5532	75	76	5573	228
38	5535	114	77	5579	231
56	5551	168	82	5544	246
59	5536	177	85	5574	255
73	5552	219	--	--	--
75	5543	225	--	--	--
79	5526	237	--	--	--
85	5533	255	--	--	--
92	5563	276	--	--	--

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5565	15	1	5571	3
18	5548	54	6	5582	18
21	5578	63	8	5554	24
26	5564	78	22	5570	66
40	5560	120	23	5563	69
48	5576	144	36	5584	108
49	5580	147	46	5569	138
52	5545	156	54	5586	162
66	5573	198	61	5578	183
79	5554	237	87	5590	261
83	5567	249	--	--	--
92	5575	276	--	--	--

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
8	5569	24	3	5592	9
15	5586	45	15	5594	45
24	5563	72	21	5575	63
32	5579	96	43	5583	129
41	5564	123	50	5599	150
43	5551	129	54	5569	162
54	5556	162	61	5573	183
58	5598	174	73	5544	219
89	5570	267	82	5547	246
--	--	--	87	5589	261



Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/07
Test Item	Radar Statistical Performance Check (802.11ax-HE160 mode - 5250MHz)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5250	1	518	102	1
2	5250	1	918	58	1
3	5260	1	938	57	1
4	5260	1	878	61	1
5	5269	1	738	72	1
6	5269	1	898	59	1
7	5270	1	758	70	1
8	5270	1	618	86	1
9	5271	1	3066	18	1
10	5271	1	698	76	1
11	5280	1	578	92	1
12	5280	1	538	99	1
13	5289	1	718	74	1
14	5289	1	858	62	1
15	5290	1	798	67	1
16	5290	1	3038	18	1
17	5291	1	1813	30	1
18	5291	1	2898	19	1
19	5300	1	2256	24	1
20	5300	1	2534	21	1
21	5309	1	2455	22	1
22	5309	1	1112	48	1
23	5310	1	2425	22	1
24	5310	1	2983	18	1
25	5311	1	1038	51	1
26	5311	1	2527	21	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5320	1	2697	20	1
28	5320	1	2406	22	1
29	5330	1	1399	38	1
30	5330	1	1713	31	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	5250	2.5	181	24	1
2	5250	1.9	168	24	1
3	5260	4.6	174	27	1
4	5260	3.8	170	27	1
5	5269	3.2	163	28	1
6	5269	3.4	204	28	1
7	5270	2.7	207	29	1
8	5270	1.2	219	25	1
9	5271	4.9	153	27	1
10	5271	1.9	185	25	1
11	5280	2.2	168	27	1
12	5280	3.8	156	24	1
13	5289	2.7	217	26	1
14	5289	4.0	197	26	1
15	5290	1.7	174	24	1
16	5290	5.0	175	29	1
17	5291	1.9	179	27	1
18	5291	4.4	196	27	1
19	5300	3.4	196	26	1
20	5300	1.1	178	23	1
21	5309	1.2	203	24	1
22	5309	1.3	207	24	1
23	5310	3.7	177	29	1
24	5310	1.4	157	26	1
25	5311	2.8	200	28	1
26	5311	3.2	188	24	1
27	5320	4.1	166	28	1
28	5320	5.0	171	26	1
29	5330	4.6	188	26	1
30	5330	3.0	178	25	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	5250	8.6	337	18	1
2	5250	7.2	354	17	1
3	5260	9.3	349	17	1
4	5260	6.9	418	17	1
5	5269	6.2	325	18	1
6	5269	8.1	274	17	1
7	5270	9.3	311	17	1
8	5270	7.1	487	18	1
9	5271	9.0	376	17	1
10	5271	6.7	356	16	1
11	5280	7.6	477	18	1
12	5280	9.3	372	17	1
13	5289	6.6	336	17	1
14	5289	6.7	473	16	1
15	5290	6.7	311	17	1
16	5290	6.2	303	18	1
17	5291	8.4	418	17	1
18	5291	7.9	365	16	1
19	5300	6.3	399	16	1
20	5300	8.5	395	16	1
21	5309	7.8	388	16	1
22	5309	8.7	470	17	1
23	5310	9.7	485	17	1
24	5310	6.1	350	16	1
25	5311	9.9	315	16	1
26	5311	7.9	353	18	1
27	5320	7.7	374	16	1
28	5320	9.4	347	16	1
29	5330	8.2	468	16	1
30	5330	8.1	481	17	1
Detection Percentage (%)					100%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5250	12.5	339	16	1
2	5250	11.5	414	13	1
3	5260	15.8	275	15	1
4	5260	13.4	383	16	1
5	5269	19.4	399	14	1
6	5269	11.8	299	13	1
7	5270	12.0	354	13	1
8	5270	14.6	311	13	1
9	5271	12.4	321	16	1
10	5271	15.6	372	15	1
11	5280	14.6	417	16	1
12	5280	12.5	392	12	1
13	5289	19.2	342	14	1
14	5289	13.4	373	14	1
15	5290	18.2	354	16	1
16	5290	11.6	250	12	1
17	5291	11.9	356	14	1
18	5291	13.3	263	16	1
19	5300	14.4	472	15	1
20	5300	14.1	464	13	1
21	5309	11.6	266	15	1
22	5309	12.2	258	16	1
23	5310	15.1	316	14	1
24	5310	13.8	417	13	1
25	5311	13.7	250	15	1
26	5311	14.1	386	15	1
27	5320	14.2	295	14	1
28	5320	11.9	470	15	1
29	5330	14.6	337	14	1
30	5330	11.1	304	13	1
Detection Percentage (%)					100%

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

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



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	5254.8	1	16	5290.0	1
2	5255.6	1	17	5290.0	1
3	5253.6	1	18	5290.0	1
4	5252.0	1	19	5290.0	1
5	5257.2	1	20	5290.0	1
6	5253.2	1	21	5326.8	1
7	5256.8	1	22	5323.2	1
8	5254.0	1	23	5322.4	1
9	5252.4	1	24	5322.8	1
10	5257.6	1	25	5325.2	1
11	5290.0	1	26	5326.4	1
12	5290.0	1	27	5328.0	1
13	5290.0	1	28	5327.6	1
14	5290.0	1	29	5324.4	1
15	5290.0	1	30	5326.0	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_1

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	216954	3	12	55	1850	1975	1388	216954	0	999999
2	1610631	1	12	85	1564	0	0	1832848	1000000	1999999
3	467420	1	12	75	1411	0	0	2301832	2000000	2999999
4	1612859	1	12	90	1189	0	0	3916102	3000000	3999999
5	139906	1	12	75	1505	0	0	4057197	4000000	4999999
6	1805035	2	12	55	1501	1178	0	5863737	5000000	5999999
7	254985	3	12	75	1877	1841	1385	6121401	6000000	6999999
8	1046903	3	12	65	1783	1273	1698	7173407	7000000	7999999
9	1601417	1	12	65	1201	0	0	8779578	8000000	8999999
10	694180	1	12	75	1029	0	0	9474959	9000000	9999999
11	1039567	1	12	95	1235	0	0	10515555	10000000	10999999
12	851524	2	12	85	1753	1769	0	11368314	11000000	11999999
Total number of pulses in waveform = 20										

**Type 5 Radar Waveform_2**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	171094	3	14	65	1672	1891	1172	171094	0	857142
2	1152628	2	14	55	1118	1668	0	1328457	857143	1714285
3	670071	3	14	50	1732	1626	1663	2001314	1714286	2571428
4	636078	1	14	50	1171	0	0	2642413	2571429	3428571
5	1067367	3	14	90	1791	1053	1313	3710951	3428572	4285714
6	664142	1	14	100	1037	0	0	4379250	4285715	5142857
7	1333130	2	14	50	1528	1013	0	5713417	5142858	6000000
8	735098	1	14	90	1354	0	0	6451056	6000001	6857143
9	1003908	2	14	100	1747	1858	0	7456318	6857144	7714286
10	759869	1	14	100	1902	0	0	8219792	7714287	8571429
11	987907	3	14	65	1312	1031	1881	9209601	8571430	9428572
12	850839	2	14	85	1036	1521	0	10064664	9428573	10285715
13	967002	1	14	100	1062	0	0	11034223	10285716	11142858
14	936231	1	14	75	1134	0	0	11971516	11142859	12000001

Total number of pulses in waveform = 26

Type 5 Radar Waveform_3Num 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	224347	3	9	90	1757	1886	1257	224347	0	749999
2	666405	2	9	75	1145	1699	0	895652	750000	1499999
3	1187178	2	9	50	1341	1452	0	2085674	1500000	2249999
4	341686	2	9	80	1182	1260	0	2430153	2250000	2999999
5	1215758	3	9	50	1797	1917	1647	3648353	3000000	3749999
6	824396	3	9	50	1867	1691	1437	4478110	3750000	4499999
7	296821	3	9	100	1896	1714	1347	4779926	4500000	5249999
8	659273	3	9	80	1814	1506	1897	5444156	5250000	5999999
9	1214602	3	9	90	1716	1293	1871	6663975	6000000	6749999
10	638744	2	9	95	1588	1848	0	7307599	6750000	7499999
11	767478	2	9	60	1641	1827	0	8078513	7500000	8249999
12	554399	2	9	85	1917	1186	0	8636380	8250000	8999999
13	435701	2	9	70	1541	1381	0	9075184	9000000	9749999
14	1149715	1	9	60	1239	0	0	10227821	9750000	10499999
15	629835	2	9	70	1545	1990	0	10858895	10500000	11249999
16	762423	1	9	65	1042	0	0	11624853	11250000	11999999

Total number of pulses in waveform = 36

Type 5 Radar Waveform_4Num 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	413723	1	5	80	1481	0	0	413723	0	857142
2	654811	3	5	95	1130	1493	1876	1070015	857143	1714285
3	647034	3	5	75	1513	1508	1153	1721548	1714286	2571428
4	1339796	1	5	50	1129	0	0	3065518	2571429	3428571
5	940588	1	5	50	1941	0	0	4007235	3428572	4285714
6	579478	1	5	70	1029	0	0	4588654	4285715	5142857
7	1191290	1	5	65	1387	0	0	5780973	5142858	6000000
8	271162	3	5	55	1485	1151	1857	6053522	6000001	6857143
9	1198850	1	5	55	1246	0	0	7256865	6857144	7714286
10	629037	2	5	50	1839	1522	0	7887148	7714287	8571429
11	730641	2	5	95	1370	1644	0	8621150	8571430	9428572
12	1024443	1	5	95	1853	0	0	9648607	9428573	10285715
13	829773	2	5	60	1353	1319	0	10480233	10285716	11142858
14	797267	3	5	80	1792	1563	1692	11280172	11142859	12000001

Total number of pulses in waveform = 25



Type 5 Radar Waveform_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	138387	1	18	90	1212	0	0	138387	0	631578
2	1085520	2	18	75	1098	1890	0	1205119	631579	1263157
3	301147	1	18	65	1706	0	0	1506254	1263158	1894736
4	733765	3	18	100	1888	1106	1060	2244725	1894737	2526315
5	384917	2	18	80	1971	1725	0	2633696	2526316	3157894
6	642337	2	18	65	1846	1137	0	3279729	3157895	3789473
7	771673	3	18	90	1667	1254	1371	4054385	3789474	4421052
8	783229	1	18	75	1066	0	0	4841806	4421053	5052631
9	801213	1	18	65	1822	0	0	5644085	5052632	5684210
10	95578	3	18	95	1671	1868	1706	5741485	5684211	6315789
11	927103	3	18	85	1666	1954	1882	6673833	6315790	6947368
12	633885	1	18	70	1246	0	0	7313210	6947369	7578947
13	407790	2	18	95	1068	1235	0	7722246	7578948	8210526
14	924136	3	18	95	1231	1886	1233	8648685	8210527	8842105
15	609822	2	18	95	1282	1456	0	9262857	8842106	9473684
16	441557	1	18	70	1744	0	0	9707152	9473685	10105263
17	564900	3	18	65	1681	1197	1441	10273495	10105264	10736842
18	468277	1	18	85	1044	0	0	10746092	10736843	11368421
19	1244157	1	18	80	1136	0	0	11991293	11368422	12000000

Total number of pulses in waveform = 36

Type 5 Radar Waveform_6

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	767175	1	8	75	1262	0	0	767175	0	1333332
2	658799	1	8	100	1615	0	0	1427236	1333333	2666665
3	1473518	2	8	100	1038	1997	0	2902369	2666666	3999998
4	1884624	2	8	95	1338	1040	0	4790028	3999999	5333331
5	1233733	2	8	80	1965	1676	0	6026139	5333332	6666664
6	1315469	3	8	65	1693	1475	1548	7345249	6666665	7999997
7	941823	3	8	95	1335	1099	1337	8291788	7999998	9333330
8	2024813	1	8	75	1987	0	0	10320372	9333331	10666663
9	539573	1	8	95	1625	0	0	10861932	10666664	11999996

Total number of pulses in waveform = 16

Type 5 Radar Waveform_7

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	665385	1	17	75	1331	0	0	665385	0	1090908
2	719507	3	17	70	1491	1864	1899	1386223	1090909	2181817
3	1092064	3	17	75	1908	1637	1333	2483541	2181818	3272726
4	1641790	1	17	65	1770	0	0	4130209	3272727	4363635
5	834270	3	17	95	1199	1720	1954	4966249	4363636	5454544
6	692491	3	17	60	1245	1711	1663	5663613	5454545	6545453
7	1900228	1	17	55	1888	0	0	7568460	6545454	7636362
8	743290	3	17	50	1878	1823	1048	8313638	7636363	8727271
9	523269	3	17	80	1070	1818	1653	8841656	8727272	9818180
10	1677582	1	17	75	1528	0	0	10523779	9818181	10909089
11	1156742	1	17	90	1057	0	0	11682049	10909090	11999998

Total number of pulses in waveform = 23

**Type 5 Radar Waveform_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	251825	2	10	50	1008	1071	0	251825	0	799999
2	1269804	3	10	60	1766	1254	1281	1523708	800000	1599999
3	572229	1	10	100	1896	0	0	2100238	1600000	2399999
4	367587	2	10	90	1783	1218	0	2469721	2400000	3199999
5	1178618	1	10	90	1870	0	0	3651340	3200000	3999999
6	714971	1	10	100	1033	0	0	4368181	4000000	4799999
7	715709	1	10	60	1390	0	0	5084923	4800000	5599999
8	514077	3	10	90	1639	1572	1695	5600390	5600000	6399999
9	1487396	3	10	90	1118	1787	1404	7092692	6400000	7199999
10	538075	3	10	60	1843	1959	1420	7635076	7200000	7999999
11	1128689	3	10	85	1270	1129	1353	8768987	8000000	8799999
12	33305	1	10	75	1756	0	0	8806044	8800000	9599999
13	913572	3	10	100	1206	1701	1257	9721372	9600000	10399999
14	1051343	3	10	55	1713	1387	1644	10776879	10400000	11199999
15	710282	3	10	100	1405	1474	1208	11491905	11200000	11999999

Total number of pulses in waveform = 33

Type 5 Radar Waveform_9Num 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	412682	2	6	65	1221	1787	0	412682	0	857142
2	1224268	2	6	80	1614	1937	0	1639958	857143	1714285
3	790678	3	6	70	1295	1683	1189	2434187	1714286	2571428
4	321021	3	6	90	1057	1916	1497	2759375	2571429	3428571
5	1446127	3	6	95	1881	1603	1777	4209972	3428572	4285714
6	79885	2	6	65	1388	1813	0	4295118	4285715	5142857
7	910782	2	6	100	1239	1254	0	5209101	5142858	6000000
8	1516309	3	6	85	1215	1573	1761	6727903	6000001	6857143
9	454782	1	6	55	1949	0	0	7187234	6857144	7714286
10	682894	2	6	55	1501	1364	0	7872077	7714287	8571429
11	1449100	3	6	50	1095	1595	1827	9324042	8571430	9428572
12	622277	2	6	85	1305	1618	0	9950836	9428573	10285715
13	829821	2	6	95	1737	1955	0	10783580	10285716	11142858
14	1095143	1	6	75	1690	0	0	11882415	11142859	12000001

Total number of pulses in waveform = 31

Type 5 Radar Waveform_10Num 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	679500	1	19	55	1502	0	0	679500	0	1499999
2	1143609	2	19	90	1585	1275	0	1824611	1500000	2999999
3	2603001	3	19	85	1338	1009	1400	4430472	3000000	4499999
4	975590	1	19	95	1062	0	0	5409809	4500000	5999999
5	1998852	1	19	85	1311	0	0	7409723	6000000	7499999
6	428155	3	19	50	1189	1260	1176	7839189	7500000	8999999
7	1975752	1	19	85	1956	0	0	9818566	9000000	10499999
8	1639088	1	19	75	1335	0	0	11459610	10500000	11999999

Total number of pulses in waveform = 13



Type 5 Radar Waveform_11

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	502697	2	8	60	1688	1694	0	502697	0	705881
2	353207	1	8	55	1755	0	0	859286	705882	1411763
3	1204244	3	8	65	1358	1187	1033	2065285	1411764	2117645
4	318434	2	8	95	1524	1765	0	2387297	2117646	2823527
5	599159	3	8	80	1251	1512	1235	2989745	2823528	3529409
6	943124	2	8	95	1132	1810	0	3936867	3529410	4235291
7	622613	1	8	85	1495	0	0	4562422	4235292	4941173
8	651464	3	8	55	1032	1794	1141	5215381	4941174	5647055
9	907665	1	8	95	1275	0	0	6127013	5647056	6352937
10	912887	1	8	80	1995	0	0	7041175	6352938	7058819
11	683529	1	8	100	1265	0	0	7726699	7058820	7764701
12	506150	1	8	100	1615	0	0	8234114	7764702	8470583
13	684499	2	8	85	1165	1480	0	8920228	8470584	9176465
14	625172	3	8	75	1142	1604	1476	9548045	9176466	9832347
15	594359	1	8	85	2000	0	0	10146626	9832348	10588229
16	768491	2	8	65	1423	1142	0	10917117	10588230	11294111
17	1055190	2	8	95	1560	1416	0	11974872	11294112	11999993
Total number of pulses in waveform = 31 *****										

Type 5 Radar Waveform_12

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	668891	3	5	80	1132	1908	1686	668891	0	923076
2	567541	2	5	50	1795	1314	0	1241158	923077	1846153
3	1287497	3	5	90	1779	1315	1852	2531764	1846154	2769230
4	451073	3	5	65	1518	1312	1034	2987783	2769231	3692307
5	1151776	2	5	90	1670	1852	0	4143423	3692308	4615384
6	605373	2	5	50	1304	1019	0	4752318	4615385	5538461
7	972953	3	5	65	1163	1216	1612	5727594	5538462	6461538
8	849757	3	5	90	1350	1388	1209	6581342	6461539	7384615
9	1084687	2	5	70	1998	1662	0	7669976	7384616	8307692
10	1494158	2	5	70	1997	1788	0	9167794	8307693	9230769
11	629275	2	5	80	1985	1754	0	9800854	9230770	10153846
12	877586	2	5	50	1666	1969	0	10682179	10153847	11076923
13	1227878	2	5	55	1333	1141	0	11913692	11076924	12000000
Total number of pulses in waveform = 31 *****										

Type 5 Radar Waveform_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	489193	1	12	60	1513	0	0	489193	0	666666
2	242014	2	12	90	1653	1688	0	732720	666667	1333333
3	981559	2	12	75	1649	1910	0	1717520	1333334	2000000
4	608613	2	12	90	1505	1536	0	2329692	2000001	2666667
5	573745	2	12	100	1766	1229	0	2906478	2666668	3333334
6	933942	3	12	55	1418	1493	1289	3843415	3333335	4000001
7	742517	3	12	95	1138	1772	1945	4590132	4000002	4666668
8	394393	2	12	70	1882	1911	0	4969380	4666669	5333335
9	709258	1	12	85	1267	0	0	5702431	5333336	6000002
10	615906	2	12	60	1866	1529	0	6319604	6000003	6666669
11	800514	3	12	95	1862	1807	1726	6923513	6666670	7333336
12	748639	1	12	95	1700	0	0	7677547	7333337	8000003
13	893902	3	12	100	1000	1833	1066	8572549	8000004	8666670
14	447852	3	12	60	1684	1587	1458	9024100	8666671	9333337
15	681573	3	12	75	1024	1788	1495	9710402	9333338	10000004
16	430618	1	12	60	1526	0	0	10145327	10000005	10666671
17	804574	3	12	60	1436	1840	1232	10951427	10666672	11333338
18	782848	1	12	80	1999	0	0	11738783	11333339	12000005
Total number of pulses in waveform = 38 *****										



Type 5 Radar Waveform_14

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	720808	1	19	80	1473	0	0	720808	0	749999
2	722944	1	19	75	1556	0	0	1445225	750000	1499999
3	554723	1	19	50	1998	0	0	2001504	1500000	2249999
4	972964	3	19	60	1752	1737	1754	2976466	2250000	2999999
5	552870	3	19	75	1435	1734	1187	3534579	3000000	3749999
6	220633	2	19	70	1563	1206	0	3759568	3750000	4499999
7	993495	1	19	55	1303	0	0	4755832	4500000	5249999
8	911672	2	19	55	1296	1567	0	5668807	5250000	5999999
9	444001	2	19	85	1898	1796	0	6115671	6000000	6749999
10	982274	3	19	60	1566	1087	1760	7101639	6750000	7499999
11	422593	3	19	100	1544	1813	1922	7528645	7500000	8249999
12	1131005	3	19	65	1793	1595	1547	8664929	8250000	8999999
13	561385	1	19	95	1443	0	0	9231249	9000000	9749999
14	1222163	1	19	100	1649	0	0	10454855	9750000	10499999
15	122993	2	19	60	1773	1521	0	10579497	10500000	11249999
16	892993	1	19	85	1415	0	0	11475784	11250000	11999999

Total number of pulses in waveform = 30

Type 5 Radar Waveform_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	57410	3	9	75	1665	1323	1018	57410	0	631578
2	782274	3	9	95	1395	1653	1035	553690	631579	1263157
3	973151	1	9	75	1698	0	0	1830924	1263158	1894736
4	411739	2	9	80	1389	1533	0	2244361	1894737	2526315
5	861211	1	9	55	1342	0	0	3108494	2526316	3157894
6	576222	1	9	75	1369	0	0	3786058	3157895	3789473
7	179761	1	9	55	1868	0	0	3967188	3789474	4421052
8	947756	3	9	95	1654	1018	1445	4916812	4421053	5052631
9	607017	1	9	70	1827	0	0	5527946	5052632	5684210
10	525057	1	9	55	1257	0	0	6054830	5684211	6315789
11	406449	2	9	85	1366	1016	0	6462536	6315790	6947368
12	974283	2	9	85	1662	1044	0	7439201	6947369	7578947
13	195806	3	9	100	1544	1265	1890	7637713	7578948	8210526
14	580981	3	9	65	1416	1587	1430	8223393	8210527	8842105
15	709395	1	9	90	1554	0	0	8937221	8842106	9473684
16	1131051	2	9	55	1926	1527	0	10069826	9473685	10105263
17	455544	1	9	85	2000	0	0	10528823	10105264	10736842
18	727541	1	9	100	1140	0	0	11258364	10736843	11368421
19	230297	1	9	85	1503	0	0	11489801	11368422	12000000

Total number of pulses in waveform = 33

Type 5 Radar Waveform_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	703548	3	6	100	1068	1966	1905	703548	0	799999
2	575925	2	6	95	1040	1902	0	1284412	800000	1599999
3	1100011	1	6	90	1912	0	0	2387365	1600000	2399999
4	544473	2	6	55	1392	1291	0	2933750	2400000	3199999
5	517898	2	6	60	1303	1295	0	3454331	3200000	3999999
6	544439	3	6	75	1674	1552	1318	4001368	4000000	4799999
7	1463472	2	6	50	1860	1613	0	5469384	4800000	5599999
8	710060	2	6	50	1959	1879	0	6182917	5600000	6399999
9	986920	3	6	70	1286	1764	1850	7173675	6400000	7199999
10	567958	2	6	90	1936	1619	0	7746533	7200000	7999999
11	269018	3	6	55	1899	1770	1989	8019106	8000000	8799999
12	1449183	1	6	90	1427	0	0	9473947	8800000	9599999
13	487075	2	6	65	1673	1822	0	9962449	9600000	10399999
14	586387	2	6	80	1913	1485	0	10552331	10400000	11199999
15	1301932	2	6	50	1818	1001	0	11857661	11200000	11999999

Total number of pulses in waveform = 32

**Type 5 Radar Waveform_17**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	740558	3	10	80	1487	1011	1307	740558	0	999999
2	376107	2	10	90	1582	1369	0	1120470	1000000	1999999
3	1641759	1	10	70	1640	0	0	2766180	2000000	2999999
4	1039692	1	10	100	1079	0	0	3806512	3000000	3999999
5	452043	1	10	65	1848	0	0	4259634	4000000	4999999
6	1640352	2	10	50	1693	1560	0	5901834	5000000	5999999
7	548927	3	10	65	1696	1402	1206	6454014	6000000	6999999
8	551376	2	10	55	1165	1783	0	7009694	7000000	7999999
9	1483808	1	10	80	1328	0	0	8496450	8000000	8999999
10	1371289	1	10	70	1583	0	0	9889067	9000000	9999999
11	501729	2	10	100	1976	1173	0	10372379	10000000	10999999
12	1028399	2	10	65	1506	1685	0	11403927	11000000	11999999

Total number of pulses in waveform = 21

Type 5 Radar Waveform_18Num 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	444439	3	18	70	1333	1354	1007	444439	0	1333332
2	1261012	1	18	60	1694	0	0	1709145	1333333	2666665
3	1209549	2	18	60	1811	1398	0	2920388	2666666	3999998
4	1566354	2	18	55	1707	1421	0	4489951	3999999	5333331
5	1310253	1	18	80	1852	0	0	5803332	5333332	6666664
6	923453	3	18	65	1533	1711	1260	6728637	6666665	7999997
7	2038481	1	18	95	1813	0	0	8771622	7999998	9333330
8	588920	2	18	85	1371	1951	0	9362355	9333331	10666663
9	2134305	1	18	95	1607	0	0	11499982	10666664	11999996

Total number of pulses in waveform = 16

Type 5 Radar Waveform_19Num 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	537988	2	17	55	1706	1677	0	537988	0	1333332
2	1615079	3	17	75	1276	1740	1767	2156450	1333333	2666665
3	1339311	3	17	60	1514	1192	1472	3500544	2666666	3999998
4	1794695	2	17	70	1476	1468	0	5299417	3999999	5333331
5	1077046	3	17	90	1117	1220	1560	6379407	5333332	6666664
6	1419250	3	17	100	1515	1727	1508	7802554	6666665	7999997
7	643085	3	17	75	1333	1454	1597	8450389	7999998	9333330
8	1235803	2	17	80	1940	1108	0	9690576	9333331	10666663
9	1897441	1	17	55	1561	0	0	11591065	10666664	11999996

Total number of pulses in waveform = 22



Type 5 Radar Waveform_20

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	426695	3	14	65	1862	1739	1939	426695	0	1499999
2	2278906	1	14	60	1163	0	0	2711141	1500000	2999999
3	1402570	1	14	60	1838	0	0	4114874	3000000	4499999
4	1278760	3	14	50	1754	1521	1662	5395472	4500000	5999999
5	1604658	2	14	60	1028	1451	0	7005067	6000000	7499999
6	1776557	3	14	100	1970	1244	1815	8784103	7500000	8999999
7	1245344	2	14	80	1818	1127	0	10034476	9000000	10499999
8	667474	1	14	50	1411	0	0	10704895	10500000	11999999

Total number of pulses in waveform = 16

Type 5 Radar Waveform_21

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	60043	2	8	95	1867	1951	0	60043	0	857142
2	1304483	1	8	80	1201	0	0	1368344	857143	1714285
3	1038771	1	8	95	1805	0	0	2408316	1714286	2571428
4	914138	3	8	90	1760	1334	1727	3324259	2571429	3428571
5	301359	2	8	85	1413	1779	0	3630439	3428572	4285714
6	1265674	2	8	55	1891	1879	0	4899305	4285715	5142857
7	567398	3	8	55	1502	1842	1810	5470473	5142858	6000000
8	1127537	3	8	60	1739	1039	1803	6603164	6000001	6857143
9	571592	3	8	100	1232	1339	1127	7179337	6857144	7714286
10	1056671	3	8	55	1163	1461	1831	8239706	7714287	8571429
11	891856	2	8	60	1493	1005	0	9136017	8571430	9428572
12	620106	2	8	60	1950	1929	0	9758621	9428573	10285715
13	684446	3	8	90	1900	1168	1769	10446946	10285716	11142858
14	817311	3	8	70	1292	1598	1975	11269094	11142859	12000001

Total number of pulses in waveform = 33

Type 5 Radar Waveform_22

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	245286	1	17	80	1977	0	0	245286	0	666666
2	928829	3	17	80	1855	1882	1143	1176092	666667	1333333
3	526146	2	17	55	1345	1295	0	1707118	1333334	2000000
4	929302	2	17	90	1141	1181	0	2639060	2000001	2666667
5	49999	2	17	90	1050	1951	0	2691361	2666668	3333334
6	1037896	2	17	95	1386	1529	0	3732378	3333335	4000001
7	770406	2	17	85	1734	1596	0	4505679	4000002	4666668
8	435193	1	17	60	1042	0	0	4944202	4666669	5333335
9	411103	3	17	60	1128	1331	1613	5366347	5333336	6000002
10	783235	1	17	60	1942	0	0	6143654	6000003	6666669
11	831032	3	17	90	1965	1369	1608	6976628	6666670	7333336
12	594925	2	17	50	1546	1173	0	7576495	7333337	8000003
13	937485	1	17	100	1513	0	0	8516699	8000004	8666670
14	328742	3	17	60	1106	1718	1396	8846954	8666671	9333337
15	909367	2	17	75	1380	1510	0	9760536	9333338	10000004
16	685197	3	17	95	1607	1086	1842	10448603	10000005	10666671
17	860511	3	17	75	1255	1747	1103	11313649	10666672	11333338
18	23736	1	17	50	1689	0	0	11341490	11333339	12000005

Total number of pulses in waveform = 37



Type 5 Radar Waveform_23

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	688064	3	19	95	1698	1662	1813	688064	0	749999
2	528372	3	19	80	1725	1322	1672	1221609	750000	1499999
3	509930	2	19	75	1480	1968	0	1736258	1500000	2249999
4	713467	1	19	55	1191	0	0	2453173	2250000	2999999
5	863051	3	19	85	1260	1989	1979	3317415	3000000	3749999
6	1117608	1	19	55	1696	0	0	4440251	3750000	4499999
7	185692	1	19	70	1260	0	0	4627639	4500000	5249999
8	1260690	2	19	50	1223	1222	0	5889589	5250000	5999999
9	711047	1	19	75	1683	0	0	6603081	6000000	6749999
10	248603	1	19	55	1514	0	0	6853367	6750000	7499999
11	1092760	2	19	85	1589	1382	0	7947641	7500000	8249999
12	585973	2	19	65	1375	1384	0	8536585	8250000	8999999
13	1186822	3	19	65	1061	1897	1015	9726166	9000000	9749999
14	126390	2	19	60	1710	1830	0	9856529	9750000	10499999
15	642861	1	19	65	1523	0	0	10502930	10500000	11249999
16	1469266	1	19	70	1309	0	0	11973719	11250000	11999999

Total number of pulses in waveform = 29

Type 5 Radar Waveform_24

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	439781	2	18	70	1209	1698	0	439781	0	1199999
2	1304402	1	18	55	1100	0	0	1747090	1200000	2399999
3	1013385	3	18	95	1452	1007	1137	2761575	2400000	3599999
4	1917147	2	18	100	1877	1713	0	4682318	3600000	4799999
5	289810	3	18	55	1486	1460	1807	4975718	4800000	5999999
6	1700771	2	18	100	1911	1623	0	6681242	6000000	7199999
7	1361402	2	18	65	1751	1069	0	8046178	7200000	8399999
8	1211123	2	18	65	2000	1924	0	9260121	8400000	9599999
9	1459359	2	18	80	1070	1343	0	10723404	9600000	10799999
10	1165926	2	18	60	1554	1018	0	11891743	10800000	11999999

Total number of pulses in waveform = 21

Type 5 Radar Waveform_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	931980	2	12	85	1228	1638	0	931980	0	999999
2	707372	1	12	80	1690	0	0	1642218	1000000	1999999
3	829907	2	12	75	1545	1960	0	2473815	2000000	2999999
4	549772	1	12	80	1591	0	0	3027092	3000000	3999999
5	1654730	1	12	50	1044	0	0	4683413	4000000	4999999
6	769395	1	12	55	1073	0	0	5453852	5000000	5999999
7	611784	3	12	70	1596	1382	1166	6066709	6000000	6999999
8	1227257	2	12	75	1823	1530	0	7298110	7000000	7999999
9	1496479	3	12	75	1116	1216	1908	8797942	8000000	8999999
10	293148	2	12	95	1923	1612	0	9095330	9000000	9999999
11	1583750	3	12	50	1890	1303	1119	10682615	10000000	10999999
12	431662	2	12	100	1307	1103	0	11118589	11000000	11999999

Total number of pulses in waveform = 23



Type 5 Radar Waveform_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	457916	1	9	95	1588	0	0	457916	0	599999
2	340278	2	9	95	1066	1220	0	799782	600000	1199999
3	545742	1	9	50	1794	0	0	1349810	1200000	1799999
4	957012	3	9	80	1230	1010	1176	2307616	1800000	2399999
5	658548	1	9	75	1409	0	0	2969580	2400000	2999999
6	394523	3	9	85	1396	1958	1754	3365512	3000000	3599999
7	238745	1	9	55	1728	0	0	3800365	3600000	4100000
8	679689	2	9	90	1973	1820	0	4290762	4200000	4799999
9	787221	1	9	50	1795	0	0	5081770	4800000	5399999
10	886254	3	9	95	1837	1147	1714	5969825	5400000	5999999
11	114106	1	9	65	1621	0	0	6368629	6000000	6599999
12	1069832	3	9	70	1042	1133	1696	7160082	6600000	7199999
13	286632	1	9	100	1829	0	0	7450585	7200000	7799999
14	846061	1	9	50	1643	0	0	8296475	7800000	8399999
15	518566	3	9	70	1126	1139	1342	8818574	8400000	8999999
16	771665	2	9	70	1979	1763	0	9593846	9000000	9599999
17	364685	3	9	75	1496	1876	1033	9962173	9600000	10199999
18	385257	3	9	50	1227	1226	1160	10351835	10200000	10799999
19	576067	1	9	60	1178	0	0	10931515	10800000	11399999
20	974880	3	9	70	1738	1590	1141	11907573	11400000	11999999
Total number of pulses in waveform = 39 *****										

Type 5 Radar Waveform_27

Num of Bursts = 18 Burst Interval (us)= 866667										
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	275085	2	5	70	1094	1425	0	275085	0	666666
2	858804	1	5	80	1642	0	0	1136408	666667	1333333
3	207883	3	5	75	1073	1307	1631	1345933	1333334	2000000
4	764420	2	5	90	1194	1754	0	2114364	2000001	2666667
5	612357	3	5	75	1757	1894	1144	2729669	2666668	3333334
6	752678	1	5	100	1292	0	0	3487142	3333335	4000001
7	547178	2	5	95	1265	1438	0	4035612	4000002	4666668
8	1178547	2	5	90	1918	1141	0	5216862	4666669	5333335
9	124245	3	5	65	1579	1709	1352	5944166	5333336	6000002
10	916940	1	5	100	1304	0	0	6265746	6000003	6666669
11	659661	3	5	95	1546	1853	1532	6923711	6666670	7333336
12	740983	1	5	80	1069	0	0	7669625	7333337	8000003
13	502493	3	5	90	1533	1459	1770	8179187	8000004	8666670
14	742631	2	5	50	1381	1762	0	8920580	8666671	9333337
15	633551	3	5	55	1535	1974	1098	9557274	9333338	10000004
16	816453	3	5	70	1006	1161	1539	10378334	10000005	10666671
17	699926	3	5	50	1276	1053	1827	11081966	10666672	11333338
18	874258	2	5	75	1652	1839	0	11960380	11333339	12000005
Total number of pulses in waveform = 40 *****										

Type 5 Radar Waveform_28

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	1158114	2	6	75	1778	1789	0	1158114	0	1499999
2	1593309	3	6	55	1181	1630	1469	2754990	1500000	2999999
3	466808	3	6	50	1249	1240	1512	3226078	3000000	4499999
4	2311788	1	6	95	1792	0	0	5541867	4500000	5999999
5	1368329	2	6	85	1081	1266	0	6911988	6000000	7499999
6	1685121	1	6	90	1740	0	0	8599456	7500000	8999999
7	1755303	3	6	75	1369	1178	1363	10356499	9000000	10499999
8	1098175	1	6	85	1755	0	0	11458584	10500000	11999999
Total number of pulses in waveform = 16 *****										



Type 5 Radar Waveform_29

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	451246	2	14	70	1360	1305	0	451246	0	1199999
2	1184052	2	14	80	1815	1603	0	1637963	1200000	2399999
3	1769851	2	14	80	1835	1806	0	3411232	2400000	3599999
4	1297340	1	14	95	1683	0	0	4712213	3600000	4799999
5	1113901	2	14	95	1282	1935	0	5827797	4800000	5999999
6	767227	2	14	70	1809	1933	0	6598241	6000000	7199999
7	1020263	2	14	90	1762	1759	0	7622246	7200000	8399999
8	1730177	3	14	65	1178	1940	1885	9355944	8400000	9599999
9	746269	2	14	85	1372	1278	0	10107216	9600000	10799999
10	1265953	2	14	100	1159	1400	0	11375819	10800000	11999999

Total number of pulses in waveform = 20

Type 5 Radar Waveform_30

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	488871	1	10	65	1905	0	0	488871	0	599999
2	370779	1	10	80	1140	0	0	868255	600000	1199999
3	901732	1	10	70	1898	0	0	1771127	1200000	1799999
4	283509	1	10	70	1676	0	0	2058534	1800000	2399999
5	684388	2	10	65	1160	1617	0	2692498	2400000	2999999
6	466891	2	10	60	1476	1074	0	3161906	3000000	3599999
7	655421	2	10	95	1783	1827	0	3819937	3600000	4199999
8	656715	1	10	85	1578	0	0	4480262	4200000	4799999
9	592040	3	10	50	1720	1078	1995	5073880	4800000	5399999
10	429765	3	10	85	1458	1694	1810	5509438	5400000	5999999
11	900072	1	10	90	1371	0	0	6413381	6000000	6599999
12	465080	3	10	85	1929	1953	1185	6900138	6600000	7199999
13	487686	3	10	60	1417	1973	1280	7392841	7200000	7799999
14	642500	1	10	80	1853	0	0	8039861	7800000	8399999
15	619376	1	10	100	1717	0	0	8661090	8400000	8999999
16	776834	3	10	55	1942	1212	1007	9442441	9000000	9599999
17	547515	2	10	100	1154	1820	0	9894117	9600000	10199999
18	280302	1	10	70	1348	0	0	10277493	10200000	10799999
19	935475	2	10	80	1687	1334	0	11215316	10800000	11399999
20	201133	1	10	55	1857	0	0	11419470	11400000	11999999

Total number of pulses in waveform = 35

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	5250	1	16	5290	1
2	5250	1	17	5291	1
3	5260	1	18	5291	1
4	5260	1	19	5300	1
5	5269	1	20	5300	1
6	5269	1	21	5309	1
7	5270	1	22	5309	1
8	5270	1	23	5310	1
9	5271	1	24	5310	1
10	5271	1	25	5311	1
11	5280	1	26	5311	1
12	5280	1	27	5320	1
13	5289	1	28	5320	1
14	5289	1	29	5330	1
15	5290	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)
9	5256	27	1	5256	3
12	5271	36	38	5267	114
18	5265	54	42	5255	126
19	5264	57	72	5266	216
27	5280	81	74	5250	222
48	5274	144	--	--	--
49	5258	147	--	--	--
50	5263	150	--	--	--
60	5261	180	--	--	--

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
30	5272	90	15	5288	45
39	5258	117	18	5253	54
43	5284	129	34	5262	102
55	5276	165	39	5250	117
60	5264	180	61	5271	183
--	--	--	76	5260	228
--	--	--	99	5287	297

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5277	15	6	5297	18
8	5256	24	20	5289	60
33	5270	99	29	5268	87
36	5254	108	38	5260	114
47	5284	141	43	5264	129
49	5286	147	57	5259	171
52	5269	156	78	5261	234
67	5258	201	95	5258	285
72	5255	216	--	--	--
90	5271	270	--	--	--

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5281	3	4	5289	12
3	5256	9	11	5273	33
19	5295	57	13	5298	39
31	5250	93	16	5266	48
32	5255	96	35	5267	105
40	5294	120	36	5299	108
58	5266	174	44	5284	132
68	5284	204	55	5252	165
72	5268	216	56	5294	168
79	5263	237	57	5251	171
90	5300	270	65	5300	195
96	5260	288	67	5277	201
97	5267	291	78	5282	234
--	--	--	85	5253	255
--	--	--	89	5291	267
--	--	--	90	5268	270

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
10	5250	30	2	5299	6
18	5275	54	3	5263	9
27	5268	81	14	5275	42
32	5288	96	15	5278	45
34	5291	102	32	5290	96
46	5290	138	37	5293	111
47	5276	141	55	5259	165
52	5300	156	--	--	--
74	5269	222	--	--	--
85	5281	255	--	--	--
92	5260	276	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
15	5310	45	1	5262	3
16	5269	48	3	5299	9
17	5274	51	6	5292	18
27	5299	81	8	5275	24
31	5276	93	11	5258	33
36	5297	108	26	5297	78
39	5252	117	35	5271	105
55	5255	165	46	5268	138
60	5258	180	49	5301	147
64	5251	192	69	5254	207
86	5282	258	70	5253	210

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
21	5265	63	11	5292	33
22	5264	66	15	5318	45
24	5309	72	16	5302	48
25	5302	75	18	5265	54
28	5313	84	24	5261	72
38	5293	114	39	5304	117
40	5286	120	40	5280	120
46	5272	138	50	5296	150
51	5297	153	65	5294	195
52	5310	156	74	5312	222
55	5296	165	87	5290	261
61	5299	183	88	5284	264
67	5300	201	90	5279	270
94	5276	282	92	5272	276
--	--	--	96	5307	288

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
14	5266	42	1	5290	3
17	5264	51	6	5270	18
23	5263	69	10	5308	30
24	5281	72	12	5288	36
32	5313	96	32	5298	96
36	5314	108	35	5291	105
39	5299	117	85	5295	255
61	5291	183	88	5320	264
66	5306	198	--	--	--
68	5317	204	--	--	--
72	5277	216	--	--	--
87	5270	261	--	--	--

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
0	5272	0	0	5278	0
1	5269	3	3	5307	9
6	5294	18	12	5310	36
20	5295	60	32	5321	96
26	5271	78	33	5305	99
33	5313	99	42	5269	126
37	5302	111	45	5261	135
43	5276	129	47	5272	141
44	5279	132	51	5294	153
61	5286	183	65	5317	195
77	5297	231	69	5314	207
79	5319	237	78	5311	234
81	5274	243	83	5284	249
84	5321	252	86	5319	258
91	5315	273	89	5270	267
93	5273	279	--	--	--
96	5308	288	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
0	5277	0	28	5326	84
4	5314	12	29	5279	87
7	5303	21	50	5301	150
67	5326	201	55	5310	165
75	5291	225	59	5294	177
83	5307	249	66	5307	198
84	5319	252	76	5315	228
87	5301	261	--	--	--
88	5304	264	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
15	5296	45	1	5325	3
19	5315	57	2	5280	6
23	5288	69	3	5281	9
24	5318	72	6	5326	18
29	5339	87	8	5337	24
31	5283	93	12	5330	36
41	5284	123	18	5332	54
43	5305	129	19	5321	57
45	5297	135	31	5288	93
58	5303	174	45	5329	135
64	5306	192	76	5296	228
95	5332	285	98	5279	294
98	5329	294	--	--	--

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5300	21	7	5291	21
13	5321	39	18	5325	54
16	5307	48	20	5315	60
26	5329	78	23	5295	69
33	5290	99	24	5298	72
49	5283	147	29	5338	87
53	5282	159	34	5302	102
59	5325	177	35	5321	105
64	5328	192	36	5337	108
78	5294	234	39	5309	117
90	5323	270	43	5336	129
91	5286	273	63	5304	189
98	5306	294	86	5332	258
--	--	--	88	5289	264
--	--	--	97	5322	291
--	--	--	98	5307	294

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
0	5335	0	6	5281	18
14	5317	42	11	5310	33
22	5314	66	19	5320	57
36	5282	108	46	5290	138
47	5299	141	55	5324	165
51	5283	153	62	5339	186
67	5287	201	71	5296	213
68	5289	204	76	5316	228
72	5298	216	79	5325	237
74	5328	222	94	5332	282
94	5321	282	99	5313	297
99	5291	297	--	--	--

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5325	12	5	5297	15
19	5311	57	9	5315	27
20	5336	60	13	5328	39
32	5307	96	44	5347	132
38	5291	114	55	5304	165
44	5319	132	61	5343	183
46	5350	138	63	5340	189
50	5290	150	67	5306	201
52	5321	156	72	5323	216
69	5315	207	73	5312	219
70	5331	210	75	5314	225
76	5295	228	79	5305	237
95	5348	285	86	5308	258
97	5299	291	93	5335	279

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5315	21	4	5358	12
11	5309	33	8	5324	24
14	5321	42	35	5322	105
19	5322	57	42	5300	126
24	5311	72	48	5341	144
25	5306	75	60	5349	180
26	5313	78	66	5330	198
42	5349	126	70	5310	210
45	5316	135	72	5312	216
52	5345	156	81	5343	243
66	5332	198	--	--	--
70	5350	210	--	--	--
74	5334	222	--	--	--
91	5303	273	--	--	--



Product	AX3000 Gigabit Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2019/05/07
Test Item	Radar Statistical Performance Check (802.11ax-HE160 mode – 5570MHz)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490	1	738	72	1
2	5500	1	758	70	1
3	5509	1	598	89	1
4	5510	1	698	76	1
5	5511	1	858	62	1
6	5520	1	518	102	1
7	5529	1	878	61	1
8	5530	1	838	63	1
9	5531	1	778	68	1
10	5540	1	638	83	1
11	5549	1	3066	18	1
12	5550	1	898	59	1
13	5551	1	558	95	1
14	5560	1	618	86	1
15	5570	1	818	65	1
16	5570	1	576	92	1
17	5580	1	2255	24	1
18	5589	1	523	101	1
19	5590	1	1563	34	1
20	5591	1	2828	19	1
21	5600	1	807	66	1
22	5609	1	1558	34	1
23	5610	1	2190	25	1
24	5611	1	1751	31	1
25	5620	1	2443	22	1
26	5629	1	739	72	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5630	1	2644	20	1
28	5631	1	2429	22	1
29	5640	1	2175	25	1
30	5650	1	2137	25	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	5490	1.7	179	28	1
2	5500	2.1	151	23	1
3	5509	2.3	152	28	1
4	5510	3.4	215	25	1
5	5511	4.1	180	25	1
6	5520	2.1	207	27	1
7	5529	3.4	153	24	1
8	5530	4.8	202	29	1
9	5531	2.4	225	24	1
10	5540	1.5	201	23	1
11	5549	4.9	190	28	1
12	5550	2.2	167	29	1
13	5551	2.2	168	27	1
14	5560	4.5	152	29	1
15	5570	1.2	221	25	1
16	5570	3.3	184	23	1
17	5580	3.2	207	26	1
18	5589	3.0	171	27	1
19	5590	1.6	159	29	1
20	5591	5.0	226	23	1
21	5600	1.7	178	27	1
22	5609	1.4	201	28	1
23	5610	2.9	183	29	1
24	5611	1.3	166	24	1
25	5620	4.4	199	28	1
26	5629	2.4	179	28	1
27	5630	3.5	158	25	1
28	5631	5.0	162	24	1
29	5640	1.1	205	25	1
30	5650	4.4	166	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	5490	10.0	286	17	1
2	5500	7.3	330	18	1
3	5509	9.5	288	18	1
4	5510	6.4	375	17	1
5	5511	7.9	427	17	1
6	5520	9.4	344	18	1
7	5529	6.2	456	18	1
8	5530	6.5	396	17	1
9	5531	6.5	443	18	1
10	5540	9.4	354	16	1
11	5549	7.8	430	17	1
12	5550	9.2	421	16	1
13	5551	9.1	291	17	1
14	5560	9.9	484	18	1
15	5570	6.2	314	18	1
16	5570	9.7	425	18	1
17	5580	7.7	388	18	1
18	5589	6.0	277	18	1
19	5590	6.8	460	18	1
20	5591	9.9	446	18	1
21	5600	6.6	354	18	1
22	5609	6.7	411	18	1
23	5610	6.0	477	16	1
24	5611	9.1	351	17	1
25	5620	7.9	376	18	1
26	5629	9.6	262	18	1
27	5630	6.7	391	16	1
28	5631	8.3	263	17	1
29	5640	8.3	289	18	1
30	5650	8.6	441	17	1
Detection Percentage (%)					100%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5490	15.7	351	12	1
2	5500	17.0	327	16	1
3	5509	13.4	310	15	1
4	5510	14.5	337	12	1
5	5511	13.2	362	12	1
6	5520	17.0	467	14	1
7	5529	16.3	334	12	1
8	5530	13.8	441	12	1
9	5531	12.7	416	16	1
10	5540	16.9	370	14	1
11	5549	13.1	491	12	1
12	5550	17.7	325	15	1
13	5551	16.8	485	12	1
14	5560	17.8	257	12	1
15	5570	18.1	493	12	1
16	5570	19.2	469	14	1
17	5580	11.8	432	16	1
18	5589	17.3	474	12	1
19	5590	18.9	471	14	1
20	5591	15.6	296	12	1
21	5600	19.6	350	12	1
22	5609	13.9	264	13	1
23	5610	18.2	466	12	1
24	5611	17.3	323	14	1
25	5620	16.8	267	14	1
26	5629	15.9	449	15	1
27	5630	18.6	275	16	1
28	5631	14.2	310	14	1
29	5640	19.7	427	14	1
30	5650	13.2	335	15	1
Detection Percentage (%)					100%

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

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



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	5493.6	1	16	5570.0	1
2	5497.6	1	17	5570.0	1
3	5497.2	1	18	5570.0	1
4	5492.0	1	19	5570.0	1
5	5494.0	1	20	5570.0	1
6	5495.6	1	21	5644.4	1
7	5493.2	1	22	5642.4	1
8	5494.8	1	23	5643.2	1
9	5496.8	1	24	5646.8	1
10	5492.4	1	25	5646.4	1
11	5570.0	1	26	5642.8	1
12	5570.0	1	27	5647.6	1
13	5570.0	1	28	5648.0	1
14	5570.0	1	29	5645.2	1
15	5570.0	1	30	5646.0	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_1

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	302786	1	9	95	1396	0	0	302786	0	799999
2	1260507	3	9	60	1977	1856	1839	1564689	800000	1599999
3	718646	2	9	50	1595	1892	0	2289007	1600000	2399999
4	297574	1	9	50	1170	0	0	2590068	2400000	3199999
5	939537	2	9	55	1521	1296	0	3530775	3200000	3999999
6	956854	1	9	85	1287	0	0	4490446	4000000	4799999
7	437070	3	9	55	1642	1724	1325	4928803	4800000	5599999
8	791219	1	9	70	1744	0	0	5724713	5600000	6399999
9	969683	2	9	100	1135	1934	0	6696140	6400000	7199999
10	921955	3	9	100	1891	1373	1811	7621164	7200000	7999999
11	501457	1	9	75	1719	0	0	8127696	8000000	8799999
12	1137854	3	9	65	1630	1369	1933	9267269	8800000	9599999
13	437812	2	9	60	1834	1874	0	9710013	9600000	10399999
14	690806	2	9	60	1630	1764	0	10404527	10400000	11199999
15	1452069	1	9	80	1317	0	0	11859990	11200000	11999999

Total number of pulses in waveform = 28

**Type 5 Radar Waveform_2**

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	667226	1	19	65	1285	0	0	667226	0	1499999
2	1356509	3	19	60	1382	1315	1866	2025020	1500000	2999999
3	2107009	3	19	55	1101	1931	1260	4136592	3000000	4499999
4	1279852	3	19	85	1787	1604	1868	5420736	4500000	5999999
5	736822	3	19	65	1071	1072	1551	6162817	6000000	7499999
6	1899597	1	19	70	1215	0	0	8066108	7500000	8999999
7	986500	3	19	50	1227	1637	1508	9053823	9000000	10499999
8	2892160	3	19	65	1926	1418	1859	11950355	10500000	11999999

Total number of pulses in waveform = 20

Type 5 Radar Waveform_3

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	928204	3	18	70	1092	1617	1663	928204	0	1090908
2	1072854	3	18	60	1372	1985	1498	2005430	1090909	2181817
3	192692	2	18	100	1312	1623	0	2202977	2181818	3272726
4	2126352	2	18	80	1636	1125	0	4332264	3272727	4363635
5	543683	2	18	90	1827	1568	0	4878708	4363636	5454544
6	677305	1	18	75	1501	0	0	5559408	5454545	6545453
7	2067763	1	18	85	1740	0	0	7628672	6545454	7636362
8	477815	1	18	60	1533	0	0	8108227	7636363	8727271
9	653874	3	18	60	1802	1039	1800	8763634	8727272	9818180
10	1494577	3	18	95	1616	1363	1346	10262852	9818181	10909089
11	1468152	1	18	70	1206	0	0	11735329	10909090	11999998

Total number of pulses in waveform = 22

Type 5 Radar Waveform_4

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	143334	1	5	80	1719	0	0	143334	0	1333332
2	2296149	2	5	65	1858	1523	0	2441202	1333333	2666665
3	404949	1	5	95	1095	0	0	2849532	2666666	3999998
4	1580118	3	5	50	1977	1785	1009	4430745	3999999	5333331
5	1009382	2	5	50	1483	1647	0	5444898	5333332	6666664
6	1854697	3	5	65	1572	1904	1628	7302725	6666665	7999997
7	1495301	1	5	55	1926	0	0	8803130	7999998	9333330
8	1231824	3	5	50	1231	1354	1736	10036880	9333331	10666663
9	1697447	3	5	100	1621	1440	1279	11738648	10666664	11999996

Total number of pulses in waveform = 19

**Type 5 Radar Waveform_5**

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	8	2	10	50	1884	1509	0	8	0	1090908
2	1558696	2	10	85	1951	1733	0	1562097	1090909	2181817
3	646208	2	10	85	1937	1550	0	2211989	2181818	3272726
4	2101869	2	10	100	1293	1254	0	4317345	3272727	4363635
5	328174	2	10	70	1055	1457	0	4648066	4363636	5454544
6	876856	3	10	100	1764	1807	1164	5527434	5454545	6545453
7	1844107	1	10	70	1604	0	0	7376276	6545454	7636362
8	829121	1	10	80	1128	0	0	8207001	7636363	8727271
9	1526699	2	10	85	1671	1059	0	9734828	8727272	9818180
10	1140979	3	10	60	1405	1180	1464	10878537	9818181	10909089
11	377151	3	10	65	1744	1964	1282	11259737	10909090	11999998

Total number of pulses in waveform = 23

Type 5 Radar Waveform_6

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	923919	2	14	100	1321	1112	0	923919	0	1333332
2	739784	1	14	80	1024	0	0	1666136	1333333	2666665
3	1003765	3	14	65	1279	1141	1955	2670925	2666666	3999998
4	2468486	1	14	100	1635	0	0	5143786	3999999	5333331
5	1302421	2	14	95	1420	1742	0	6447842	5333332	6666664
6	1486747	1	14	70	1406	0	0	7937751	6666665	7999997
7	1192129	2	14	75	1711	1356	0	9131236	7999998	9333330
8	1347540	2	14	55	1740	1373	0	10481893	9333331	10666663
9	660413	1	14	95	1070	0	0	11145419	10666664	11999996

Total number of pulses in waveform = 15

Type 5 Radar Waveform_7

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	194547	3	8	80	1576	1395	1955	194547	0	1199999
2	1207787	1	8	90	1728	0	0	1407260	1200000	2399999
3	1758361	3	8	95	1090	1152	1530	3167349	2400000	3599999
4	914688	3	8	90	1367	1230	1380	4085809	3600000	4799999
5	821625	3	8	75	1916	1661	1922	4911411	4800000	5999999
6	1205771	2	8	55	1490	1155	0	6122681	6000000	7199999
7	1251337	2	8	80	1130	1499	0	7376663	7200000	8399999
8	1868303	2	8	65	1964	1803	0	9247595	8400000	9599999
9	1336321	3	8	65	1465	1940	1246	10587683	9600000	10799999
10	266650	2	8	90	1638	1223	0	10858984	10800000	11999999

Total number of pulses in waveform = 24



Type 5 Radar Waveform_8

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	275775	2	12	90	1294	1415	0	275775	0	923076
2	1280039	1	12	50	1140	0	0	1558523	923077	1846153
3	1182720	3	12	95	1174	1699	1488	2742383	1846154	2769230
4	495209	1	12	50	1504	0	0	3241953	2769231	3692307
5	894921	2	12	60	1155	1637	0	4138378	3692308	4615384
6	999534	3	12	95	1858	1027	1500	5140754	4615385	5538461
7	683049	2	12	60	1761	1087	0	5828188	5538462	6461538
8	899985	1	12	75	1393	0	0	6731021	6461539	7384615
9	1529304	1	12	100	1044	0	0	8261718	7384616	8307692
10	439620	2	12	100	1606	1468	0	8702382	8307693	9230769
11	1324683	1	12	90	1222	0	0	10030139	9230770	10153846
12	152353	2	12	65	1166	1163	0	10183714	10153847	11076923
13	1786608	3	12	55	1153	1692	1353	11972651	11076924	12000000

Total number of pulses in waveform = 24

Type 5 Radar Waveform_9

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	916330	1	17	100	1702	0	0	916330	0	923076
2	747380	1	17	50	1934	0	0	1665392	923077	1846153
3	1037823	3	17	55	1459	1342	1822	2705149	1846154	2769230
4	917334	1	17	80	1640	0	0	3627106	2769231	3692307
5	878187	2	17	70	1436	1658	0	4506933	3692308	4615384
6	538811	2	17	60	1305	1319	0	5048838	4615385	5538461
7	1296315	3	17	30	1534	1775	1598	6347777	5538462	6461538
8	395720	3	17	100	1720	1864	1653	6748454	6461539	7384615
9	1050810	1	17	95	1688	0	0	7804501	7384616	8307692
10	542898	2	17	75	1661	1346	0	8349087	8307693	9230769
11	1363074	2	17	50	1143	1520	0	9715168	9230770	10153846
12	608090	1	17	50	1947	0	0	10325921	10153847	11076923
13	853561	1	17	65	1792	0	0	11181429	11076924	12000000

Total number of pulses in waveform = 23

Type 5 Radar Waveform_10

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	208525	2	6	80	1196	1666	0	608525	0	631578
2	298988	3	6	100	1713	1723	1748	909675	631579	1263157
3	591289	1	6	80	1026	0	0	1506128	1263158	1894736
4	017099	3	6	70	1096	1090	1205	2324247	1894737	2526315
5	286247	2	6	55	1934	1922	0	2613825	2526316	3157894
6	622888	2	6	65	1266	1084	0	3240569	3157895	3789473
7	896225	2	6	90	1831	1630	0	4142134	3789474	4421052
8	600796	2	6	100	1050	1620	0	4746391	4421053	5052631
9	629681	1	6	65	1613	0	0	5378742	5052632	5684210
10	900246	3	6	60	1957	1217	1589	6280601	5684211	6315789
11	122928	2	6	70	1943	1282	0	6408292	6315790	6947368
12	1067473	2	6	60	1261	1667	0	7478090	6947369	7578947
13	280377	1	6	75	1926	0	0	7762295	7578948	8210526
14	496884	3	6	80	1431	1182	1036	8264105	8210527	8842105
15	1092680	1	6	60	1038	0	0	9360434	8842106	9473694
16	269952	2	6	80	1705	1526	0	9631419	9473695	10105263
17	811809	2	6	90	1106	1272	0	10466459	10105264	10736842
18	471158	3	6	65	1899	1679	1340	10919995	10736843	11368421
19	738190	3	6	60	1606	1246	1387	11663103	11368422	12000000

Total number of pulses in waveform = 40



Type 5 Radar Waveform_11

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	137747	2	5	55	1866	1099	0	137747	0	599999
2	997381	1	5	75	1884	0	0	1137873	600000	1199999
3	341811	2	5	95	1122	1093	0	1481568	1200000	1799999
4	396892	3	5	70	1323	1010	1536	1880675	1800000	2399999
5	931300	3	5	75	1746	1938	1978	2815844	2400000	2999999
6	733122	3	5	50	1428	1196	1354	3554628	3000000	3599999
7	416284	3	5	55	1553	1410	1290	3974890	3600000	4199999
8	231554	1	5	80	1451	0	0	4210667	4200000	4799999
9	813882	1	5	80	1809	0	0	5029000	4800000	5399999
10	968566	3	5	50	1253	1048	1313	5906375	5400000	5999999
11	197507	1	5	70	1565	0	0	6197496	6000000	6599999
12	606072	1	5	85	1260	0	0	6895133	6600000	7199999
13	758657	1	5	95	1520	0	0	7655050	7200000	7799999
14	559055	1	5	55	1328	0	0	8215635	7800000	8399999
15	443008	1	5	75	1952	0	0	8859971	8400000	8999999
16	538242	1	5	50	1432	0	0	9200165	9000000	9599999
17	948219	3	5	95	1431	1839	1659	10049816	9600000	10199999
18	266173	3	5	55	1202	1333	1811	10930918	10200000	10799999
19	541188	1	5	80	1079	0	0	10896452	10800000	11399999
20	636390	2	5	100	1667	1534	0	11503921	11400000	11999999
Total number of pulses in waveform = 37 *****										

Type 5 Radar Waveform_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	57733	1	10	60	1072	0	0	57733	0	705881
2	1237762	2	10	65	1599	1650	0	1296567	705882	1411763
3	562528	3	10	70	1605	1910	1602	1862344	1411764	2117645
4	488267	2	10	80	1628	1722	0	2355728	2117646	2823527
5	1052160	2	10	80	1584	1351	0	3411238	2823528	3529409
6	406772	1	10	65	1071	0	0	3820945	3529410	4235291
7	960161	3	10	50	1333	1736	1590	4782177	4235292	4941173
8	256806	1	10	85	1466	0	0	5043642	4941174	5647055
9	1143031	3	10	80	1138	1302	1701	6188139	5647056	6352937
10	303130	3	10	70	1585	1288	1576	6495410	6352938	7058819
11	809992	3	10	90	1289	1423	1483	7309851	7058820	7764701
12	796838	1	10	50	1618	0	0	8110934	7764702	8470583
13	967878	2	10	100	1552	1590	0	9080430	8470584	9176465
14	439970	1	10	65	1656	0	0	9523542	9176466	9882347
15	1057058	3	10	75	1236	1880	1536	10582256	9882348	10588229
16	5345	3	10	95	1189	1531	1609	10592253	10588230	11294111
17	887336	1	10	85	1358	0	0	11483918	11294112	11999993
Total number of pulses in waveform = 35 *****										

Type 5 Radar Waveform_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	144343	1	19	65	1006	0	0	144343	0	705881
2	991402	3	19	55	1029	1249	1869	1136751	705882	1411763
3	498568	1	19	85	1214	0	0	1639466	1411764	2117645
4	540842	1	19	60	1823	0	0	2181522	2117646	2823527
5	1224740	2	19	55	1753	1576	0	3408085	2823528	3529409
6	662704	2	19	60	1301	1242	0	4074118	3529410	4235291
7	718119	1	19	90	1205	0	0	4794780	4235292	4941173
8	467756	1	19	100	1002	0	0	5263741	4941174	5647055
9	552252	3	19	55	1649	1694	1941	5816995	5647056	6352937
10	1140564	2	19	65	1068	1837	0	6962843	6352938	7058819
11	231408	3	19	55	1606	1979	1552	7197156	7058820	7764701
12	843123	3	19	55	1080	1141	1618	8045416	7764702	8470583
13	901526	3	19	55	1087	1697	1789	8950781	8470584	9176465
14	358992	3	19	55	1810	1960	1586	9314346	9176466	9882347
15	786187	3	19	50	1373	1476	1410	10105879	9882348	10588229
16	654153	1	19	50	1915	0	0	10764291	10588230	11294111
17	830342	1	19	100	1082	0	0	11596548	11294112	11999993
Total number of pulses in waveform = 34 *****										



Type 5 Radar Waveform_14

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	679444	3	12	55	1581	1758	1984	679444	0	705881
2	481457	1	12	50	1508	0	0	1166224	705882	1411763
3	477507	1	12	50	1061	0	0	1645239	1411764	2117645
4	1124018	3	12	100	1207	1240	1620	2770318	2117646	2023527
5	561276	1	12	75	1269	0	0	3335749	2823528	3529409
6	330289	2	12	60	1087	1910	0	3667307	3529410	4235291
7	1017757	1	12	60	1210	0	0	4688061	4235292	4941173
8	786976	2	12	100	1229	1905	0	5476247	4941174	5647055
9	461667	2	12	90	1432	1053	0	5941048	5647056	6352937
10	417268	1	12	95	1864	0	0	6360801	6352938	7058819
11	1063470	1	12	80	1362	0	0	7426135	7058820	7764701
12	934505	3	12	70	1337	1827	1629	8362002	7764702	8470583
13	640651	3	12	65	1184	1643	1430	9007446	8470584	9176465
14	401346	1	12	90	1869	0	0	9413049	9176466	9882347
15	578266	3	12	65	1629	1759	1482	9993184	9882348	10588229
16	861807	1	12	60	1254	0	0	10859861	10588230	11294111
17	971465	2	12	90	1133	1747	0	11832580	11294112	11999993
Total number of pulses in waveform = 31										

Type 5 Radar Waveform_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	524781	1	17	100	1886	0	0	524781	0	749999
2	797723	3	17	85	1492	1222	1435	1324390	750000	1499999
3	813780	1	17	80	1175	0	0	2142319	1500000	2249999
4	530226	1	17	90	1432	0	0	2673720	2250000	2999999
5	669846	2	17	55	1643	1022	0	3344998	3000000	3749999
6	854840	3	17	55	1318	1083	1389	4202503	3750000	4499999
7	461314	3	17	95	1975	1325	1851	4667607	4500000	5249999
8	1004924	1	17	85	1071	0	0	5677682	5250000	5999999
9	744751	2	17	60	1962	1849	0	6423504	6000000	6749999
10	503762	3	17	100	1860	1208	1211	6931077	6750000	7499999
11	1294537	2	17	50	1602	1227	0	8229893	7500000	8249999
12	520866	3	17	55	1212	1720	1903	8753588	8250000	8999999
13	427855	1	17	95	1902	0	0	9186278	9000000	9749999
14	906550	3	17	55	1179	1250	1768	10094730	9750000	10499999
15	834320	1	17	55	1054	0	0	10933247	10500000	11249999
16	751929	1	17	55	1995	0	0	11686230	11250000	11999999
Total number of pulses in waveform = 31										

Type 5 Radar Waveform_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	591960	3	8	100	1166	1576	1051	591960	0	1333332
2	923397	3	8	85	1495	1957	1627	1519150	1333333	2666665
3	1626775	3	8	95	1224	1452	1147	3151004	2666666	3999998
4	1172875	2	8	75	1411	1541	0	4327702	3999999	5333331
5	1356042	1	8	90	1290	0	0	5686696	5333332	6666664
6	1222721	3	8	95	1164	1608	1882	6910707	6666665	7999997
7	2243247	1	8	60	1347	0	0	9158608	7999998	9333330
8	327442	2	8	55	1097	1961	0	9487397	9333331	10666663
9	2422652	2	8	90	1892	1861	0	11913107	10666664	11999996
Total number of pulses in waveform = 20										



Type 5 Radar Waveform_17

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	73016	1	14	90	1575	0	0	73016	0	705881
2	811675	2	14	70	1959	1000	0	886266	705882	1411763
3	916720	3	14	90	1276	1036	1550	1805945	1411764	2117645
4	454608	1	14	75	1878	0	0	2264415	2117646	2823527
5	850348	3	14	60	1325	1554	1757	3116641	2823528	3529409
6	522067	3	14	70	1448	1977	1926	3643344	3529410	4235291
7	872991	1	14	95	1805	0	0	4521686	4235292	4941173
8	777265	1	14	65	1624	0	0	5300756	4941174	5647055
9	892589	3	14	60	1927	1902	1757	6194969	5647056	6352937
10	423549	1	14	95	1776	0	0	6624104	6352938	7058819
11	929083	1	14	65	1446	0	0	7554963	7058820	7764701
12	240749	1	14	80	1418	0	0	7797158	7764702	8470583
13	279089	2	14	85	1433	1719	0	8938625	8470584	9176465
14	1080523	3	14	95	1955	1366	1473	9220866	9176466	9882347
15	366502	3	14	50	1855	1782	1685	10306183	9882348	10588229
16	1185426	3	14	95	1039	1527	1616	10678007	10588230	11294111
17		3	14	85	1584	1160	1228	11867615	11294112	11999993

Total number of pulses in waveform = 35

Type 5 Radar Waveform_18

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	427297	1	9	70	1072	0	0	427297	0	596999
2	748117	1	9	80	1046	0	0	1176486	600000	1199999
3	41165	1	9	85	1287	0	0	1218897	1200000	1799999
4	911241	1	9	85	1053	0	0	2131225	1800000	2399999
5	097019	1	9	90	1955	0	0	2529597	2400000	2999999
6	817931	1	9	66	1800	0	0	3349488	3000000	3866666
7	410292	3	9	95	1259	1785	1278	3761575	3600000	4199999
8	1007389	3	9	70	1549	1213	1155	4773285	4200000	4799999
9	240155	2	9	100	1514	1450	0	5017358	4800000	5399999
10	479919	2	9	55	1677	1210	0	5500241	5400000	5999999
11	828103	1	9	100	1459	0	0	6331239	6000000	6599999
12	550547	3	9	100	1927	1942	1894	6883245	6600000	7199999
13	851798	1	9	95	1735	0	0	7740806	7200000	7799999
14	393998	1	9	85	1010	0	0	8126539	7800000	8399999
15	308752	1	9	95	1152	0	0	8436901	8400000	8999999
16	663601	2	9	100	1881	1863	0	9091044	9000000	9599999
17	974909	2	9	80	1506	1048	0	10069697	9600000	10199999
18	441651	3	9	70	1912	1200	1603	10513902	10200000	10799999
19	649804	2	9	50	1080	1746	0	11168421	10800000	11399999
20	776977	1	9	90	1537	0	0	11948224	11400000	11999999

Total number of pulses in waveform = 33

Type 5 Radar Waveform_19

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	33240	2	6	55	1641	1125	0	33240	0	749999
2	751703	3	6	95	1104	1386	1184	787709	750000	1499999
3	904055	1	6	85	1644	0	0	1695438	1500000	2249999
4	1177188	2	6	95	1670	1555	0	2874270	2250000	2999999
5	730764	2	6	90	1132	1677	0	3608259	3000000	3749999
6	273696	3	6	80	1235	1148	1936	3884764	3750000	4499999
7	779912	1	6	50	1696	0	0	4668995	4500000	5249999
8	777401	3	6	50	1886	1101	1116	5448092	5250000	5999999
9	772053	3	6	70	1439	1219	1987	6224248	6000000	6749999
10	1095834	3	6	85	1954	1590	1946	7324727	6750000	7499999
11	327376	2	6	75	1109	1656	0	7657593	7500000	8249999
12	1000650	2	6	95	1523	1708	0	8661008	8250000	8999999
13	1046138	3	6	95	1149	1920	1014	9710377	9000000	9749999
14	518351	1	6	65	1109	0	0	10232811	9750000	10499999
15	522912	2	6	70	1980	1912	0	10756832	10500000	11249999
16	922796	3	6	70	1892	1428	1419	11683520	11250000	11999999

Total number of pulses in waveform = 36



Type 5 Radar Waveform_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	18708	1	18	85	1836	0	0	18708	0	599999
2	654492	3	18	90	1296	1853	1180	678036	600000	1199999
3	655729	3	18	50	1584	1446	1325	1335064	1200000	1799999
4	932696	1	18	70	1967	0	0	2272105	1800000	2399999
5	674799	2	18	95	1022	1480	0	2948871	2400000	2999999
6	180232	1	18	65	1568	0	0	3131605	3000000	3599999
7	890235	3	18	50	1870	1236	1820	4023408	3600000	4199999
8	448504	1	18	95	1515	0	0	4476838	4200000	4799999
9	358167	3	18	60	1166	1779	1740	4836520	4800000	5399999
10	617890	2	18	100	1025	1925	0	5456075	5400000	5999999
11	1083120	2	18	55	1167	1655	0	6545145	6000000	6599999
12	304554	3	18	100	1376	1216	1950	6852511	6600000	7199999
13	501483	2	18	80	1915	1407	0	7358536	7200000	7799999
14	446339	3	18	90	1249	1221	1250	7806197	7800000	8399999
15	948395	1	18	95	1741	0	0	8790312	8400000	8999999
16	372629	2	18	90	1409	1444	0	9134682	9000000	9599999
17	493229	3	18	95	1067	1275	1183	9630764	9600000	10199999
18	1016010	1	18	100	1484	0	0	10850296	10200000	10799999
19	686113	1	18	85	1002	0	0	11937876	10800000	11999999
20	264005	3	18	90	1713	1800	1422	11602883	11400000	11999999
Total number of pulses in waveform = 41										

Type 5 Radar Waveform_21

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	7627	3	14	95	1238	1865	1797	7627	0	1199999
2	1779957	1	14	100	1792	0	0	1792484	1200000	2399999
3	723305	2	14	70	1535	1828	0	2517581	2400000	3599999
4	1788653	1	14	90	1496	0	0	4309597	3600000	4799999
5	992091	1	14	85	1033	0	0	5303184	4800000	5999999
6	828170	2	14	95	1887	1965	0	6132387	6000000	7199999
7	2063429	3	14	60	1506	1810	1845	8199668	7200000	8399999
8	934331	3	14	65	1107	1314	1217	9139160	8400000	9599999
9	1450113	1	14	55	1834	0	0	10592911	9600000	10799999
10	1034357	2	14	65	1594	1630	0	11629102	10800000	11999999
Total number of pulses in waveform = 19 *****										

Type 5 Radar Waveform_22

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	495476	1	19	85	1581	0	0	495476	0	705881
2	371178	2	19	80	1476	1843	0	868235	705882	1411763
3	895475	1	19	70	1696	0	0	1767029	1411764	2117645
4	604756	1	19	80	1488	0	0	2373481	2117646	2823527
5	1136905	1	19	50	1994	0	0	3511874	2823528	3529409
6	87028	3	19	100	1460	1290	1621	3600896	3529410	4235291
7	986641	2	19	70	1179	1533	0	4591908	4235292	4941173
8	612741	1	19	60	1435	0	0	5207361	4941174	5647055
9	543643	1	19	55	1393	0	0	5752439	5647056	6352937
10	861762	1	19	80	1061	0	0	6615594	6352938	7058819
11	593860	2	19	70	1496	1763	0	7210515	7058820	7764701
12	1002819	1	19	100	1372	0	0	8216593	7764702	8470583
13	759861	2	19	85	1160	1346	0	9077826	8470584	9176465
14	776470	2	19	90	1497	1149	0	9756810	9176466	9882347
15	380815	1	19	65	1175	0	0	10140271	9882348	10588229
16	984576	1	19	100	1221	0	0	11126022	10588230	11294111
17	471197	2	19	75	1640	1167	0	11598440	11294112	11999993
Total number of pulses in waveform = 25 *****										



Type 5 Radar Waveform_23

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	85615	1	17	100	1673	0	0	85615	0	705881
2	1093780	3	17	70	1699	1091	1103	1186068	705882	1411763
3	520696	2	17	100	1363	1803	0	1710657	1411764	2117645
4	815300	3	17	65	1912	1716	1382	2529123	2117646	2823527
5	565018	1	17	70	1727	0	0	3099151	2823528	3529409
6	643556	1	17	95	1105	0	0	3744434	3529410	4235291
7	595942	3	17	95	1630	1187	1529	4341481	4235292	4941173
8	1062438	1	17	75	1554	0	0	5408265	4941174	5647055
9	420328	2	17	80	1500	1051	0	5830147	5647056	6352937
10	623846	3	17	80	1214	1337	1992	6456544	6352938	7058819
11	668076	3	17	55	1371	1691	1020	7129163	7058820	7764701
12	1176857	3	17	80	1325	1635	1586	8310102	7764702	8470583
13	788983	1	17	95	1103	0	0	9103631	8470584	9176465
14	736983	1	17	80	1203	0	0	9841717	9176466	9882347
15	670960	2	17	85	1566	1835	0	10513880	9882348	10588229
16	488546	1	17	60	1218	0	0	11005827	10588230	11294111
17	287664	3	17	100	1156	1304	1837	11294709	11294112	11999993
Total number of pulses in waveform = 34										

Type 5 Radar Waveform_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	390814	2	8	55	1143	1289	0	390814	0	666666
2	325943	2	8	55	1337	1063	0	689189	666667	1333333
3	1286111	3	8	70	1886	1001	1337	1977700	1333334	2000000
4	807934	1	8	65	1133	0	0	2588858	2000001	2666667
5	636489	3	8	85	1233	1107	1326	3217460	2666668	3333334
6	746887	3	8	90	1419	1315	1461	3968013	3333335	4000001
7	336569	2	8	75	1791	1313	0	4298777	4000002	4666668
8	443481	1	8	85	1400	0	0	4745362	4666669	5333335
9	643983	1	8	80	1689	0	0	5390745	5333336	6000002
10	629900	2	8	75	1483	1511	0	6022334	6000003	6666669
11	851400	3	8	85	1924	1594	1441	6676731	6666670	7333336
12	1196950	3	8	70	1431	1852	1387	7878640	7333337	8000003
13	441060	1	8	75	1001	0	0	8324370	8000004	8666670
14	972648	3	8	90	1766	1400	1835	9296019	8666671	9333337
15	67471	1	8	60	1129	0	0	9370491	9333338	10000004
16	1254365	3	8	85	1368	1558	1226	10625985	10000005	10666671
17	390688	1	8	85	1952	0	0	11020825	10666672	11333338
18	707287	2	8	100	1755	1206	0	11730064	11333339	12000005
Total number of pulses in waveform = 37										

Type 5 Radar Waveform_25

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	346506	3	9	55	1751	1036	1880	346506	0	666666
2	521844	2	9	80	1092	1561	0	873027	666667	1333333
3	895030	2	9	65	1840	1778	0	1771710	1333334	2000000
4	506563	2	9	55	1930	1910	0	2281891	2000001	2666667
5	789225	2	9	85	1743	1723	0	3073956	2666668	3333334
6	408962	3	9	50	1882	1350	1912	3486404	3333335	4000001
7	1047511	2	9	90	1142	1788	0	4539069	4000002	4666668
8	609853	2	9	75	1132	1296	0	5151652	4666669	5333335
9	646791	3	9	55	1688	1916	1885	5800871	5333336	6000002
10	827866	3	9	75	1016	1065	1086	6634225	6000003	6666669
11	690960	1	9	90	1640	0	0	7328356	6666670	7333336
12	357495	1	9	60	1789	0	0	7687492	7333337	8000003
13	493958	1	9	85	1659	0	0	8183239	8000004	8666670
14	621103	2	9	50	1280	1545	0	8809001	8666671	9333337
15	1159023	3	9	50	1732	1553	1481	9987849	9333338	10000004
16	163109	2	9	65	1084	1622	0	10135724	10000005	10666671
17	731898	1	9	85	1600	0	0	10870328	10666672	11333338
18	569020	1	9	50	1146	0	0	11440948	11333339	12000005
Total number of pulses in waveform = 36										

**Type 5 Radar Waveform_26**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	809778	1	18	70	1944	0	0	809778	0	857142
2	755143	3	18	65	1135	1655	1422	1566865	857143	1714285
3	514292	2	18	65	1342	1686	0	2085369	1714286	2571428
4	997534	1	18	75	1040	0	0	3085931	2571429	3428571
5	559563	1	18	100	1055	0	0	3646534	3428572	4285714
6	1194561	1	18	95	1663	0	0	4842150	4285715	5142857
7	1054980	3	18	100	1931	1539	1712	5898793	5142858	6000000
8	412405	1	18	75	1554	0	0	6316380	6000001	6857143
9	797818	1	18	60	1814	0	0	7115752	6857144	7714286
10	674734	3	18	85	1972	1582	1769	7792300	7714287	8571429
11	1068397	2	18	85	1036	1691	0	8866020	8571430	9428572
12	1083676	1	18	75	1743	0	0	9952423	9428573	10285715
13	1159363	2	18	55	1858	1407	0	11113529	10285716	11142858
14	142651	1	18	75	1765	0	0	11259445	11142859	12000001

Total number of pulses in waveform = 23

Type 5 Radar Waveform_27Num 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	453437	2	6	60	1205	1578	0	453437	0	799999
2	479069	3	6	85	1115	1603	1600	935289	800000	1599999
3	705755	3	6	90	1067	1966	1668	1645362	1600000	2399999
4	1120051	2	6	60	1381	1206	0	2770114	2400000	3199999
5	470940	3	6	90	1028	1449	1557	3243641	3200000	3999999
6	1287547	1	6	50	1847	0	0	4535222	4000000	4799999
7	939093	3	6	70	1619	1398	1293	5476162	4800000	5599999
8	454944	2	6	100	1291	1671	0	5935416	5600000	6399999
9	794101	1	6	80	1860	0	0	6732479	6400000	7199999
10	954379	3	6	60	1199	1605	1961	7688718	7200000	7999999
11	1064780	1	6	95	1223	0	0	8758263	8000000	8799999
12	68351	3	6	50	1320	1887	1926	8827837	8800000	9599999
13	1338744	3	6	70	1217	1890	1151	10171714	9600000	10399999
14	463030	2	6	85	1579	1582	0	10639002	10400000	11199999
15	694343	3	6	75	1573	1619	1512	11336506	11200000	11999999

Total number of pulses in waveform = 35

Type 5 Radar Waveform_28Num 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	652067	2	5	85	1791	1991	0	652067	0	799999
2	356950	2	5	60	1216	1174	0	1012799	800000	1599999
3	729793	1	5	85	1252	0	0	1744982	1600000	2399999
4	981810	1	5	70	1768	0	0	2728044	2400000	3199999
5	765192	3	5	75	1172	1051	1393	3495004	3200000	3999999
6	734922	2	5	65	1562	1287	0	4233542	4000000	4799999
7	1025936	2	5	90	1695	1017	0	5262327	4800000	5599999
8	341326	2	5	70	1158	1898	0	5606365	5600000	6399999
9	1221193	2	5	85	1219	1362	0	6830614	6400000	7199999
10	1163933	2	5	75	1452	1250	0	7997128	7200000	7999999
11	162022	1	5	65	1429	0	0	8161852	8000000	8799999
12	670100	2	5	100	1134	1105	0	8833381	8800000	9599999
13	1425615	1	5	65	1786	0	0	10261235	9600000	10399999
14	814511	1	5	90	1347	0	0	11077532	10400000	11199999
15	856024	1	5	60	1843	0	0	11934903	11200000	11999999

Total number of pulses in waveform = 25



Type 5 Radar Waveform_29

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	614717	2	12	65	1591	1019	0	614717	0	749999
2	733321	1	12	65	1689	0	0	1350648	750000	1499999
3	513842	2	12	65	1617	1713	0	1866179	1500000	2249999
4	757989	2	12	75	1724	1028	0	2627498	2250000	2999999
5	1038895	1	12	70	1449	0	0	3669145	3000000	3749999
6	641222	2	12	60	1572	1517	0	4311816	3750000	4499999
7	374701	3	12	70	1736	1481	1873	4689606	4500000	5249999
8	882142	1	12	50	1194	0	0	5576838	5250000	5999999
9	438643	1	12	70	1510	0	0	6016675	6000000	6749999
10	925083	2	12	100	1047	1688	0	6943268	6750000	7499999
11	1291613	3	12	70	1389	1453	1468	8237616	7500000	8249999
12	551996	1	12	95	1226	0	0	8793922	8250000	8999999
13	854243	3	12	85	1278	1661	1969	9649391	9000000	9749999
14	786126	1	12	80	1835	0	0	10440425	9750000	10499999
15	251853	3	12	50	1202	1003	1347	10694113	10500000	11249999
16	948925	1	12	100	1267	0	0	11646590	11250000	11999999

Total number of pulses in waveform = 29

Type 5 Radar Waveform_30

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	87413	3	10	70	1060	1560	1230	87413	0	589999
2	572079	1	10	70	1167	0	0	663342	600000	1199999
3	896905	1	10	55	1253	0	0	1361414	1200000	1799999
4	1024822	3	10	55	1223	1929	1985	2387489	1800000	2399999
5	60280	2	10	95	1998	1928	0	2452906	2400000	2999999
6	948382	1	10	95	1753	0	0	3405214	3000000	3599999
7	702892	1	10	80	1533	0	0	4109859	3600000	4199999
8	516227	1	10	65	1857	0	0	4627619	4200000	4799999
9	541520	2	10	55	1665	1953	0	5170966	4800000	5399999
10	573152	3	10	50	1295	1366	1220	5747766	5400000	5999999
11	612729	2	10	50	1474	1146	0	6364365	6000000	6599999
12	248120	3	10	65	1373	1077	1308	6615136	6600000	7199999
13	1138723	1	10	75	1050	0	0	7757617	7200000	7799999
14	614080	2	10	75	1236	1465	0	8372756	7800000	8399999
15	422973	2	10	95	1803	1728	0	8798430	8400000	8999999
16	262271	2	10	90	1999	1757	0	9064232	9000000	9599999
17	581594	2	10	80	1555	1822	0	9649582	9600000	10199999
18	808170	1	10	85	1642	0	0	10461129	10200000	10799999
19	669293	3	10	90	1155	1066	1266	11132064	10800000	11399999
20	451366	3	10	90	1723	1277	1959	11586917	11400000	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	5490	1	16	5570	1
2	5500	1	17	5580	1
3	5509	1	18	5589	1
4	5510	1	19	5590	1
5	5511	1	20	5591	1
6	5520	1	21	5600	1
7	5529	1	22	5609	1
8	5530	1	23	5610	1
9	5531	1	24	5611	1
10	5540	1	25	5620	1
11	5549	1	26	5629	1
12	5550	1	27	5630	1
13	5551	1	28	5631	1
14	5560	1	29	5640	1
15	5570	1	30	5650	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
8	5489	24	8	5487	24
11	5482	33	31	5526	93
12	5518	36	40	5521	120
19	5486	57	43	5525	129
21	5471	63	52	5490	156
32	5508	96	75	5493	225
38	5492	114	76	5524	228
57	5507	171	81	5511	243
61	5475	183	82	5509	246
62	5499	186	83	5505	249
64	5496	192	85	5474	255
76	5478	228	--	--	--
79	5503	237	--	--	--
91	5473	273	--	--	--
98	5469	294	--	--	--

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5538	12	5	5531	15
21	5499	63	10	5497	30
29	5505	87	17	5532	51
30	5501	90	32	5525	96
32	5537	96	38	5540	114
35	5509	105	51	5483	153
49	5498	147	69	5527	207
64	5488	192	70	5526	210
--	--	--	72	5495	216
--	--	--	75	5512	225
--	--	--	78	5523	234
--	--	--	85	5536	255
--	--	--	87	5503	261
--	--	--	96	5533	288
--	--	--	97	5530	291

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5497	33	2	5491	6
28	5522	84	3	5507	9
37	5537	111	14	5537	42
51	5517	153	15	5520	45
52	5503	156	24	5547	72
66	5538	198	33	5534	99
68	5528	204	41	5542	123
86	5484	258	43	5515	129
87	5525	261	58	5522	174
--	--	--	69	5503	207
--	--	--	71	5535	213
--	--	--	76	5540	228
--	--	--	84	5510	252
--	--	--	93	5530	279
--	--	--	94	5517	282

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5533	3	2	5515	6
7	5545	21	8	5558	24
13	5527	39	9	5551	27
54	5558	162	39	5527	117
56	5517	168	40	5548	120
62	5537	186	46	5555	138
99	5557	297	51	5559	153
--	--	--	55	5554	165
--	--	--	93	5539	279

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5553	9	13	5547	39
8	5533	24	24	5510	72
12	5503	36	47	5515	141
15	5542	45	53	5538	159
16	5527	48	54	5527	162
20	5524	60	57	5541	171
22	5541	66	59	5544	177
29	5550	87	74	5546	222
35	5535	105	78	5524	234
36	5521	108	82	5526	246
40	5555	120	88	5565	264
43	5514	129	99	5550	297
51	5517	153	--	--	--
65	5516	195	--	--	--
78	5525	234	--	--	--
80	5523	240	--	--	--
93	5520	279	--	--	--
97	5551	291	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5523	18	20	5573	60
13	5545	39	21	5521	63
24	5531	72	39	5572	117
48	5524	144	40	5535	120
52	5550	156	45	5552	135
53	5527	159	57	5557	171
64	5519	192	62	5537	186
82	5541	246	82	5571	246
86	5543	258	83	5536	249

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5572	3	12	5560	36
4	5540	12	28	5547	84
13	5538	39	34	5564	102
37	5571	111	36	5555	108
42	5522	126	40	5541	120
55	5542	165	41	5550	123
61	5574	183	43	5562	129
76	5530	228	52	5576	156
83	5579	249	59	5548	177
84	5529	252	66	5559	198
99	5531	297	67	5546	201
--	--	--	68	5549	204
--	--	--	76	5580	228
--	--	--	80	5553	240
--	--	--	96	5589	288
--	--	--	98	5538	294

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5575	15	0	5566	0
7	5566	21	5	5540	15
9	5546	27	9	5592	27
18	5565	54	30	5586	90
20	5571	60	47	5550	141
34	5572	102	50	5552	150
37	5577	111	60	5578	180
46	5570	138	66	5541	198
66	5574	198	67	5558	201
72	5552	216	69	5546	207
78	5547	234	88	5590	264
96	5562	288	93	5556	279
97	5554	291	99	5569	297
98	5584	294	--	--	--

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
10	5583	30	8	5589	24
15	5568	45	17	5570	51
20	5608	60	39	5595	117
31	5579	93	52	5597	156
39	5588	117	55	5601	165
50	5553	150	59	5593	177
55	5558	165	60	5615	180
62	5595	186	66	5576	198
70	5593	210	78	5578	234
79	5556	237	93	5575	279
84	5554	252	94	5563	282
94	5560	282	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5598	12	3	5621	9
9	5593	27	4	5575	12
22	5572	66	13	5579	39
23	5606	69	16	5563	48
26	5564	78	22	5588	66
32	5607	96	33	5596	99
35	5569	105	36	5582	108
58	5608	174	41	5615	123
73	5611	219	42	5589	126
75	5586	225	44	5577	132
81	5568	243	46	5570	138
83	5561	249	50	5590	150
85	5562	255	53	5604	159
95	5566	285	67	5569	201
96	5565	288	69	5592	207
98	5576	294	70	5617	210
--	--	--	81	5611	243
--	--	--	96	5606	288



--	--	--	99	5571	297
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Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5613	12	2	5583	6
5	5602	15	3	5589	9
27	5621	81	4	5632	12
33	5579	99	10	5602	30
35	5574	105	26	5609	78
37	5585	111	29	5631	87
45	5606	135	34	5633	102
52	5614	156	46	5584	138
64	5607	192	50	5615	150
67	5619	201	51	5587	153
72	5590	216	57	5601	171
89	5587	267	77	5636	231
90	5581	270	81	5620	243
91	5592	273	84	5607	252
94	5580	282	86	5592	258
95	5591	285	98	5612	294
99	5608	297	--	--	--

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
16	5581	48	2	5587	6
20	5630	60	4	5588	12
40	5601	120	7	5637	21
46	5640	138	14	5639	42
58	5633	174	20	5618	60
62	5637	186	37	5629	111
84	5589	252	41	5624	123
88	5627	264	46	5623	138
91	5611	273	48	5611	144
93	5617	279	66	5589	198
99	5595	297	74	5626	222
--	--	--	82	5594	246
--	--	--	85	5583	255
--	--	--	97	5640	291

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5614	27	21	5658	63
47	5625	141	32	5612	96
56	5594	168	38	5617	114
57	5620	171	39	5654	117
59	5615	177	45	5622	135
63	5639	189	50	5625	150
85	5646	255	51	5631	153
90	5619	270	66	5614	198
--	--	--	69	5640	207

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5620	21	11	5621	33
9	5610	27	13	5630	39
14	5639	42	19	5634	57
15	5658	45	26	5653	78
16	5655	48	38	5641	114
17	5644	51	43	5640	129
30	5641	90	58	5642	174
36	5622	108	63	5649	189
42	5612	126	64	5647	192
47	5651	141	70	5643	210
53	5619	159	78	5624	234
59	5643	177	81	5635	243
66	5625	198	90	5610	270
75	5604	225	98	5618	294
76	5607	228	--	--	--
93	5633	279	--	--	--
95	5600	285	--	--	--
98	5642	294	--	--	--

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
0	5626	0	7	5652	21
7	5639	21	13	5625	39
32	5616	96	17	5659	51
45	5632	135	34	5674	102
50	5623	150	43	5654	129
53	5610	159	47	5624	141
57	5612	171	61	5651	183
69	5621	207	66	5623	198
71	5631	213	74	5633	222
89	5642	267	79	5628	237
91	5635	273	90	5634	270
--	--	--	99	5655	297

6. CONCLUSION

The data collected relate only the item(s) tested and show that the **AX3000 Gigabit Wi-Fi 6 Router** **FCC ID: TE7AX50** is in compliance with Part 15E of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “1905TW0114-UT” file.

Appendix B - EUT Photograph

Refer to “1905W0114-UE” file.