

RF MEASUREMENT REPORT

FCC ID: 2AXJ4RE650V2
Applicant: TP-Link Corporation Limited
Application Type: Certification
Product: AC2600 MU-MIMO Wi-Fi Range Extender
Model No.: RE650
Brand Name: tp-link
FCC Classification: Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s): Part 15 Subpart E (Section 15.407)
Type of Device: Master Device &
Client With Radar Detection Device
Test Date: September 28 ~ November 04, 2021

Reviewed By:

Kevin Guo

Approved By:

Robin Wu



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 ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

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

Revision History

Report No.	Version	Description	Issue Date	Note
2109RSU016-U3	Rev. 01	Initial Report	11-08-2021	Valid

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1.4. Product Information

Product Name	AC2600 MU-MIMO Wi-Fi Range Extender
Model No.	RE650
Brand Name	tp-link
Wi-Fi Specification	802.11a/b/g/n/ac
Antenna Information	Refer to section 1.7
EUT Identification No.	20210909Sample#09 (AP mode & Mesh Mode) 20211025Sample#01 (Client Mode)
Power Supply	AC100~240V/50~60Hz
Remark:	The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.

1.5. Radio Specification

Frequency Range	For 802.11a/n-HT20/ac-VHT20: 5260~5320MHz, 5500~5700MHz For 802.11n-HT40/ac-VHT40: 5270~5310MHz, 5510~5670MHz For 802.11ac-VHT80: 5290MHz, 5530MHz, 5610 MHz
Type of Modulation	802.11a/n/ac: OFDM
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.4Mbps
Power-on cycle	Requires 52.5 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.

Note: For other features of this EUT, test report will be issued separately.

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz
64	5320 MHz	100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz	116	5580 MHz
120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz

802.11n-HT40/ac-VHT40

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

802.11ac-VHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 MHz

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Tx Paths	Max Antenna Gain (dBi)	Beamforming Directional Gain (dBi)	CDD Directional Gain (dBi)	
					For Power	For PSD
Dipole Antenna	2412 ~ 2462	4	1.0	7.02	1.0	7.02
	5150 ~ 5850	4	2.0	8.02	2.0	8.02

Remark:

- The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.
If all antennas have the same gain, G_{ANT} , Directional gain = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows.
 - For power spectral density (PSD) measurements on all devices,
Array Gain = $10 \log (N_{ANT} / N_{SS})$ dB;
 - For power measurements on IEEE 802.11 devices,
Array Gain = 0 dB for $N_{ANT} \leq 4$;
- The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac, not include 802.11a/b/g. BF Directional gain = $G_{ANT} + 10 \log (N_{ANT})$.

2. Test Configuration

2.1. Test Mode

Mode 1: Operating under AP mode
 Mode 2: Operating under Mesh mode
 Mode 3: Operating under Client with Radar Detection Mode

2.2. Test Channel

Test Mode	Test Channel	Test Frequency
802.11ac-VHT20	100	5500 MHz
802.11ac-VHT 40	102	5510 MHz
802.11ac-VHT 80	106	5530 MHz

2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.407 Section (h)(2)
- KDB 905462 D02v02
- KDB 905462 D04v01

2.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20%RH ~75%RH

3. DFS Detection Thresholds and Radar Test Waveforms

3.1. Applicability

The following table from FCC KDB 905462 D02 NII 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 NII 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	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	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: 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 NII 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.

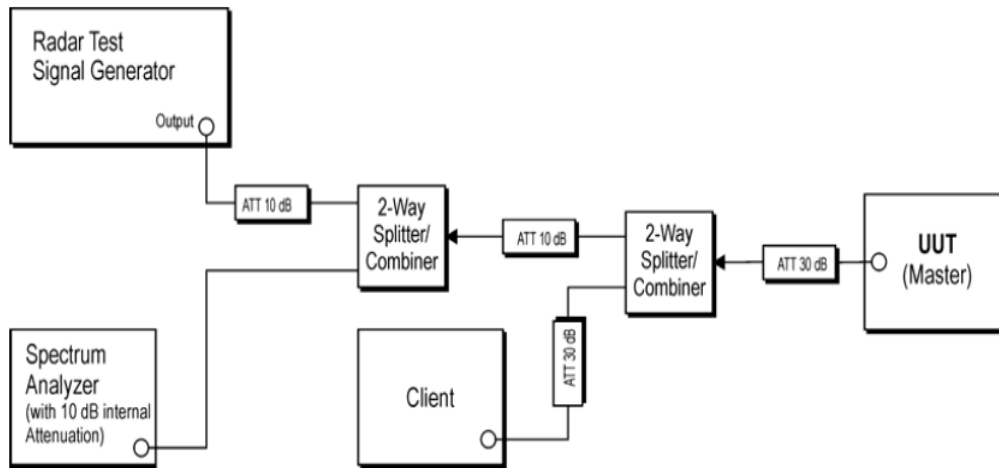


Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters

4. Measuring Instrument

No.	Instrument	Manufacturer	Model No.	Asset No.	Last Cali. Date	Cali. Due Date	Test Site
1	Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2022/4/13	WZ-SR4
2	Thermohygrometer	testo	608-H1	MRTSUE06222	1 year	2022/10/10	WZ-SR4
3	Signal Generator	R&S	SMBV100A	MRTSUE06279	1 year	2022/4/13	WZ-SR4
4	Shielding Room	HUAMING	WZ-SR4	MRTSUE06441	/	/	WZ-SR4
5	Signal Generator	Keysight	N5182B	MRTSUE06451	1 year	2022/6/24	WZ-SR4/WZ-SR6
6	Signal Generator	R&S	SMU200A	MRTSUE06490	1 year	2022/2/23	WZ-SR4/WZ-SR5/WZ-SR6
7	Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2022/6/24	WZ-SR4
8	Frequency extender for EXG or MXG	Keysight	N5182BX07	MRTSUE06984	1 year	2022/3/7	WZ-SR4

Client Information

Instrument	Manufacturer	Type No.	Certification Number
Wi-Fi Module	Intel	AX200NGW	FCC ID: PD9AX200NG
AC2600 MU-MIMO Wi-Fi Range Extender	tp-link	RE650	FCC ID: 2AXJ4RE650V2

Software	Version	Manufacturer	Function
Pulse Building	N/A	Agilent	Radar Signal Generation Software
DFS Tool	V 6.9.2	Agilent	DFS Test Software
R&S Pulse Sequencer DFS	V 2.0	R&S	DFS Test Software
DFS Tool	V2.2.0.0	Keysight	DFS Test Software

5. Test Result

5.1. Summary

Parameter	Verdict	Reference
NII Detection Bandwidth Measurement	Pass	Section 5.3
Initial Channel Availability Check Time	Pass	Section 5.4
Radar Burst at the Beginning of the Channel Availability Check Time	Pass	Section 5.5
Radar Burst at the End of the Channel Availability Check Time	Pass	Section 5.6
In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time	Pass	Section 5.7
Non-Occupancy Period	Pass	Section 5.7
Statistical Performance Check	Pass	Section 5.8

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.

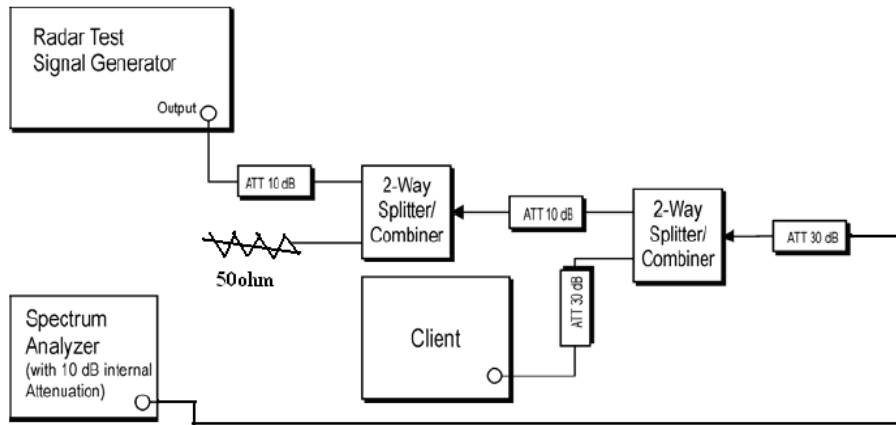


Figure 3-2: Conducted Test Setup

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. Calibration & Channel Loading Result

Refer to Appendix A.1.

5.3. NII Detection Bandwidth Measurement

5.3.1. Test Limit

Minimum 100% of the NII 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: $U\text{-NII Detection Bandwidth} = FH - FL$
8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the

EUT does not comply with DFS requirements.

5.3.3. Test Result

Refer to Appendix A.2.

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

Refer to Appendix A.3.

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

Refer to Appendix A.4.

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

Refer to Appendix A.5.

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

Refer to Appendix A.6.

5.8. Statistical Performance Check Measurement

5.8.1. Test Limit

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

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

Note: The percentage of successful detection is calculated by:
 (Total Waveform Detections / Total Waveform Trails) * 100 = Probability of Detection Radar Waveform In
 addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is
 required and is calculated as follows: (Pd1 + Pd2 + Pd3 + Pd4) / 4.

5.8.2. Test Procedure

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

5.8.3. Test Result

Refer to Appendix A.7.

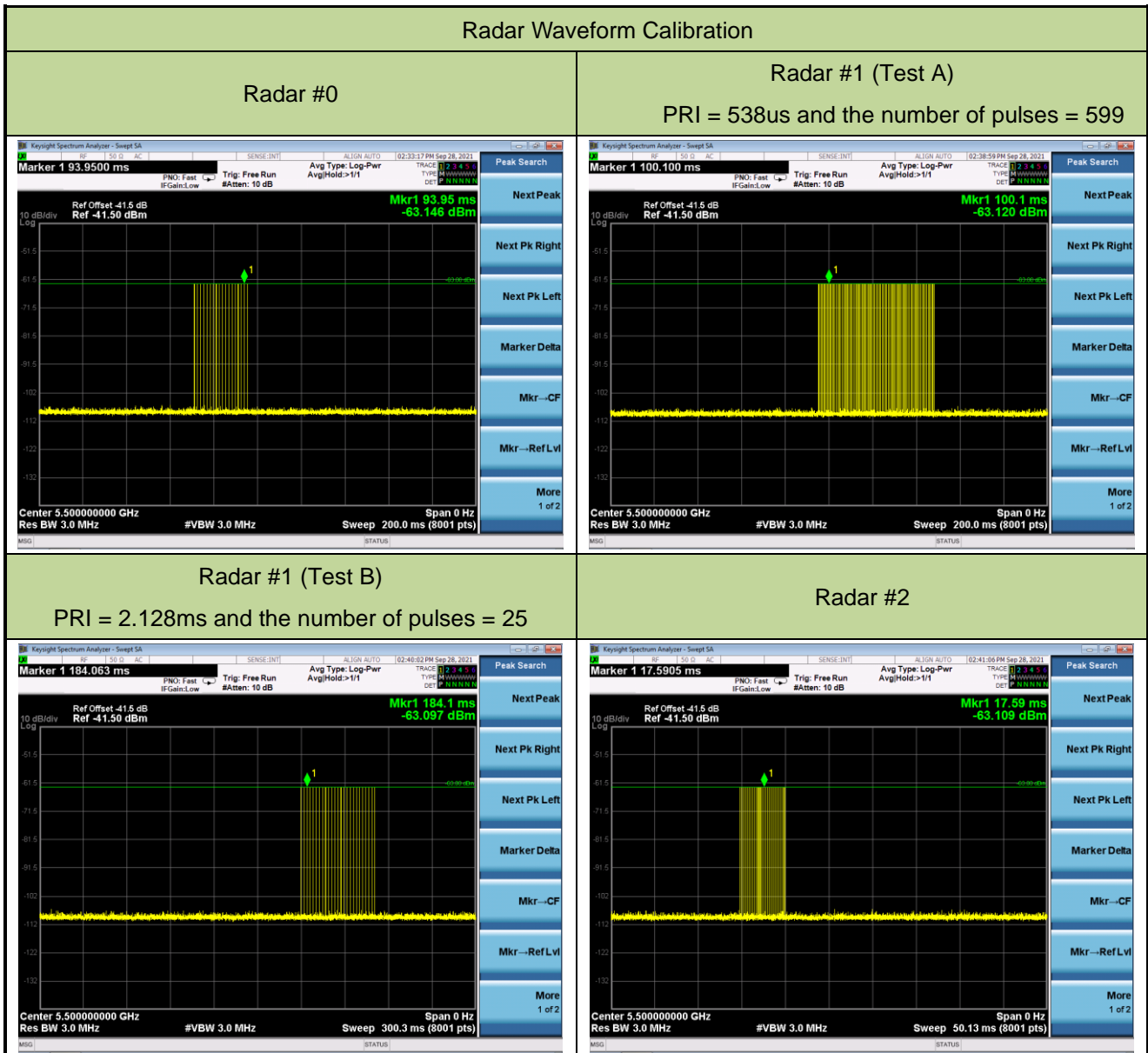
6. Conclusion

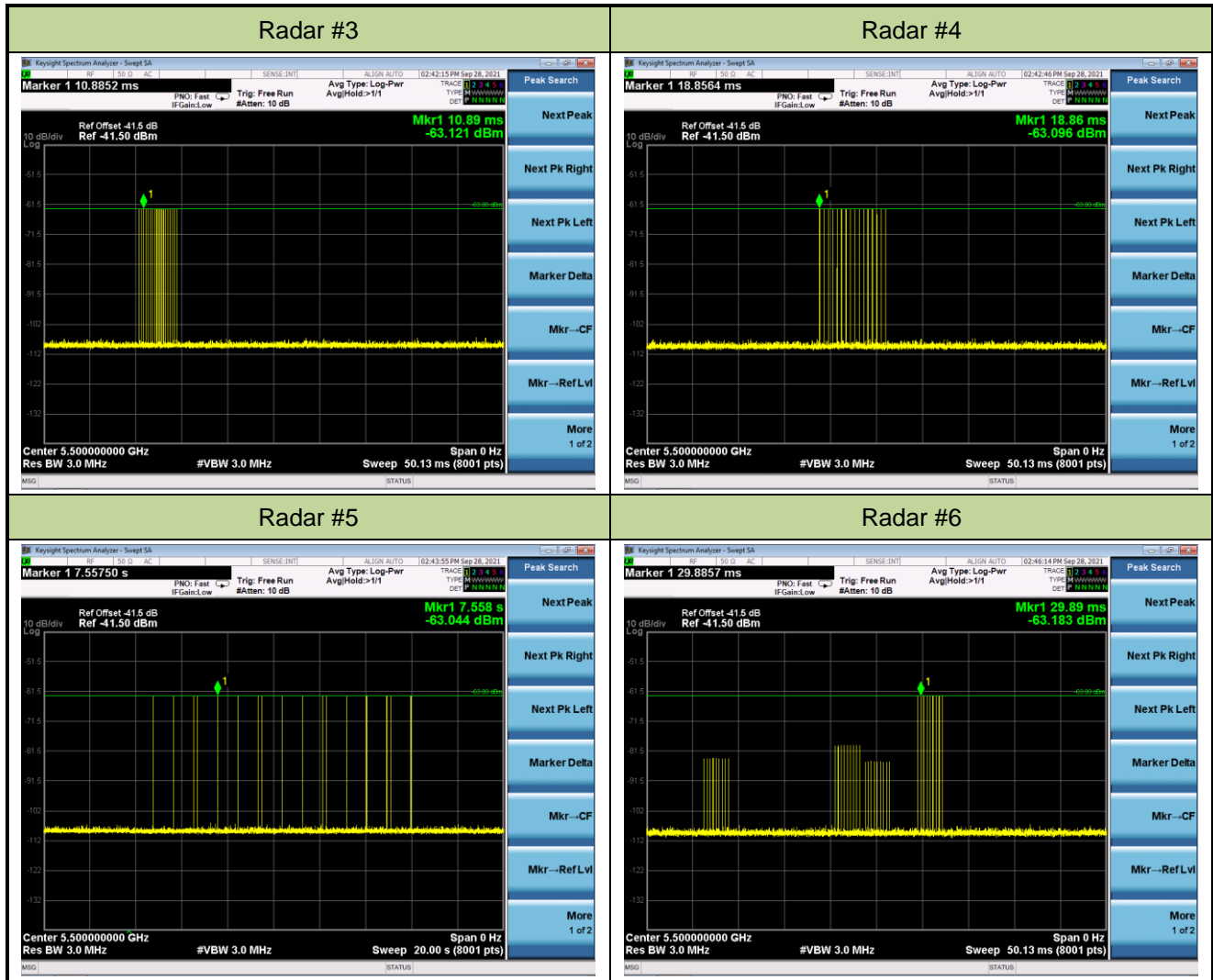
The data collected relate only the item(s) tested and show that the device is in compliance with FCC Rules.

Appendix A – Test Result

A.1 Calibration Test Result

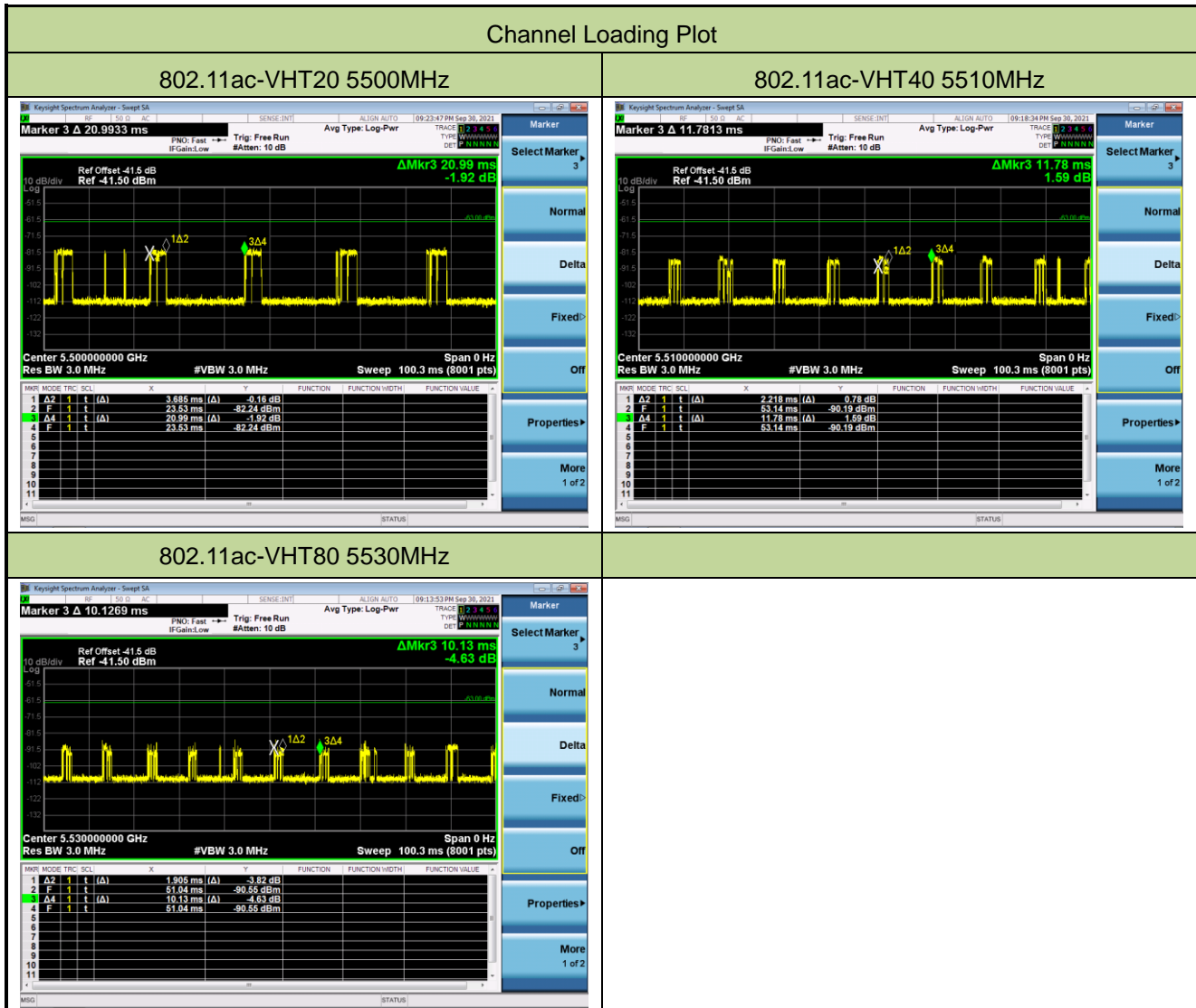
Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/28	Test Item	Radar Waveform Calibration





A.2 Channel Loading Test Result

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/30	Test Item	Channel Loading – Mode 1



Test Mode	Test Frequency	Packet ratio	Requirement ratio	Test Result
802.11ac-VHT20	5500 MHz	17.56%	≥ 17%	Pass
802.11ac-VHT40	5510 MHz	18.83%	≥ 17%	Pass
802.11ac-VHT80	5530 MHz	18.81%	≥ 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).

A.3 NII Detection Bandwidth Test Result

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/28		
Test Item	Detection Bandwidth (802.11ac-VHT20 - 5500MHz) – Mode 1		

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

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5500MHz. The 99% channel bandwidth is 17.57MHz. (See the 99% BW section of the RF report for further measurement details).

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

Note 3: NII Detection Bandwidth Min. Limit (MHz): 17.57MHz x 100% = 17.57MHz.

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/28		
Test Item	Detection Bandwidth (802.11ac-VHT40 - 5510MHz) – Mode 1		

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

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5510MHz. The 99% channel bandwidth is 36.11MHz. (See the 99% BW section of the RF report for further measurement details).

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

Note 3: NII Detection Bandwidth Min. Limit (MHz): 36.11MHz x 100% = 36.11MHz.

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/28		
Test Item	Detection Bandwidth (802.11ac-VHT80 - 5530MHz) – Mode 1		

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

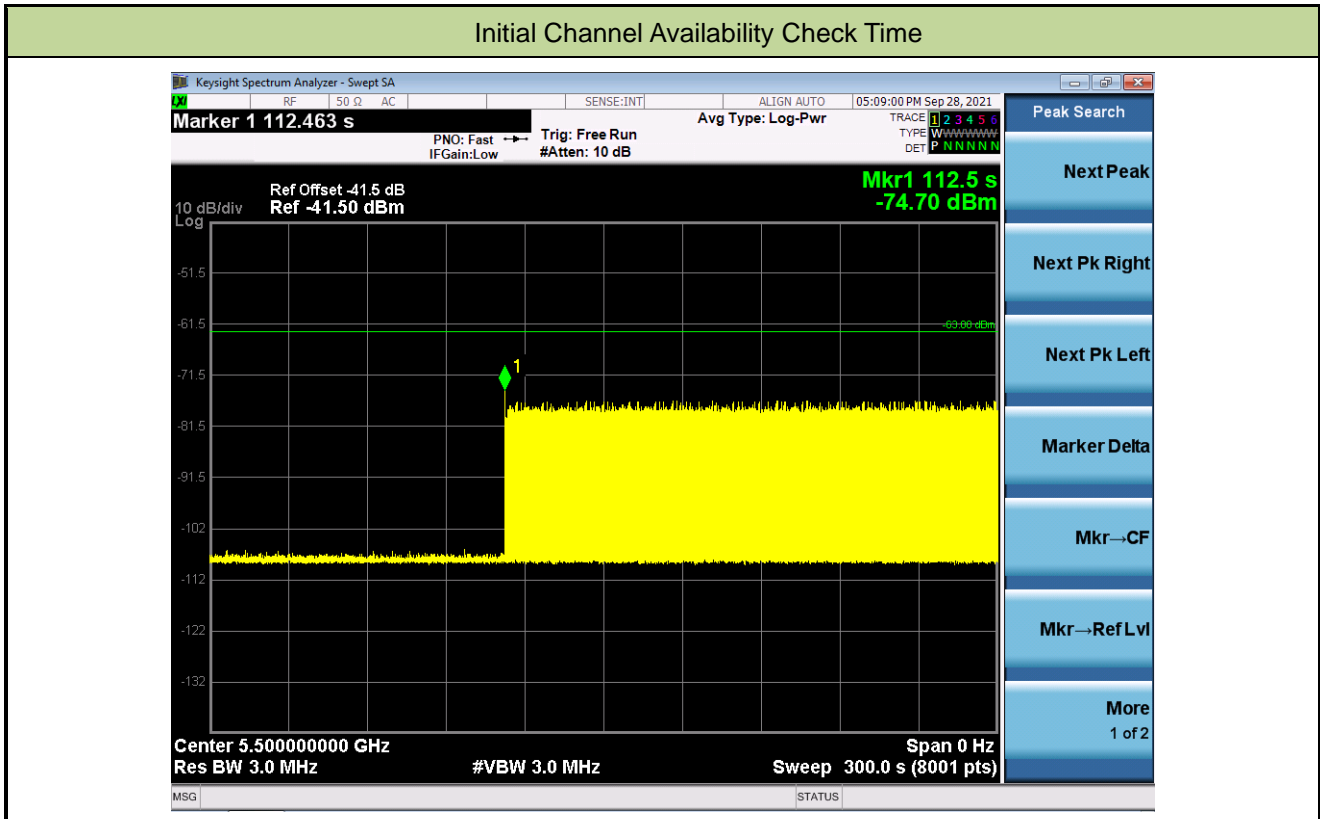
Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5530MHz. The 99% channel bandwidth is 75.06MHz. (See the 99% BW section of the RF report for further measurement details).

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

Note 3: NII Detection Bandwidth Min. Limit (MHz): 75.06MHz x 100% = 75.06MHz.

A.4 Initial Channel Availability Check Time Test Result

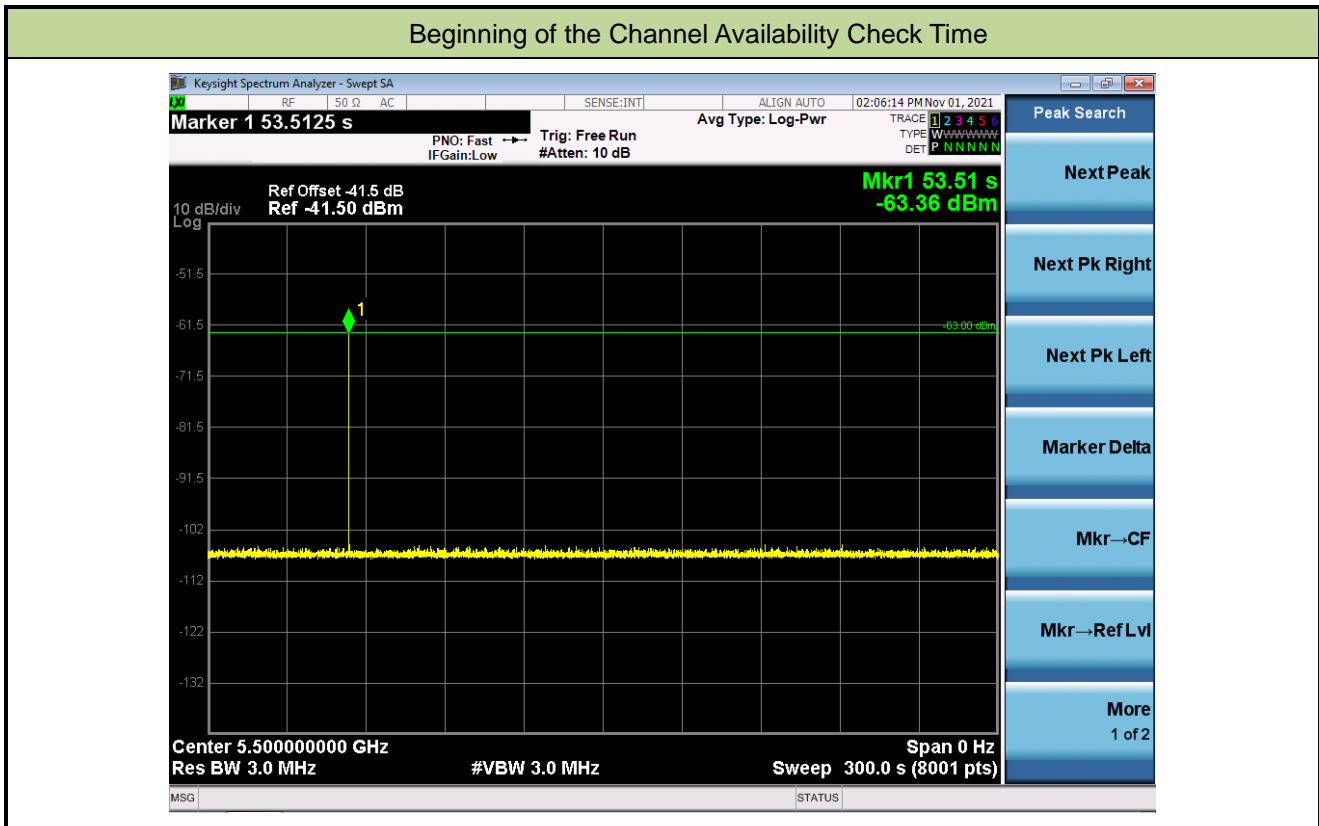
Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/28		
Test Item	Initial Channel Availability Check Time (802.11ac-VHT20 - 5500MHz) – Mode 1		



Note: The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (52.5 sec). Initial beacons/data transmissions are indicated by marker 1 (112.5 sec).

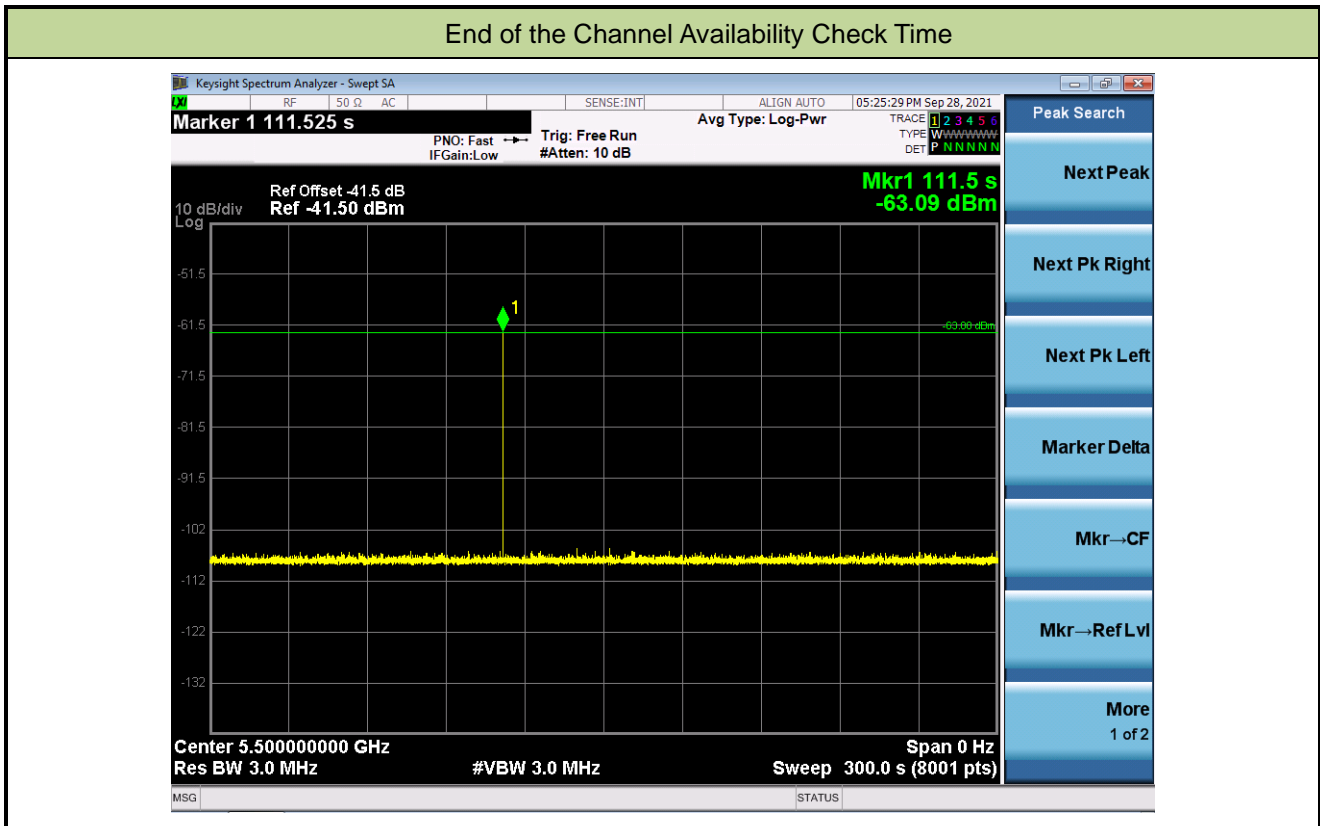
A.5 Radar Burst at the Beginning of the Channel Availability Check Time Test Result

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/11/01		
Test Item	Beginning of the Channel Availability Check Time (802.11ac-VHT20 - 5500MHz) – Mode 1		



A.6 Radar Burst at the End of the Channel Availability Check Time Test Result

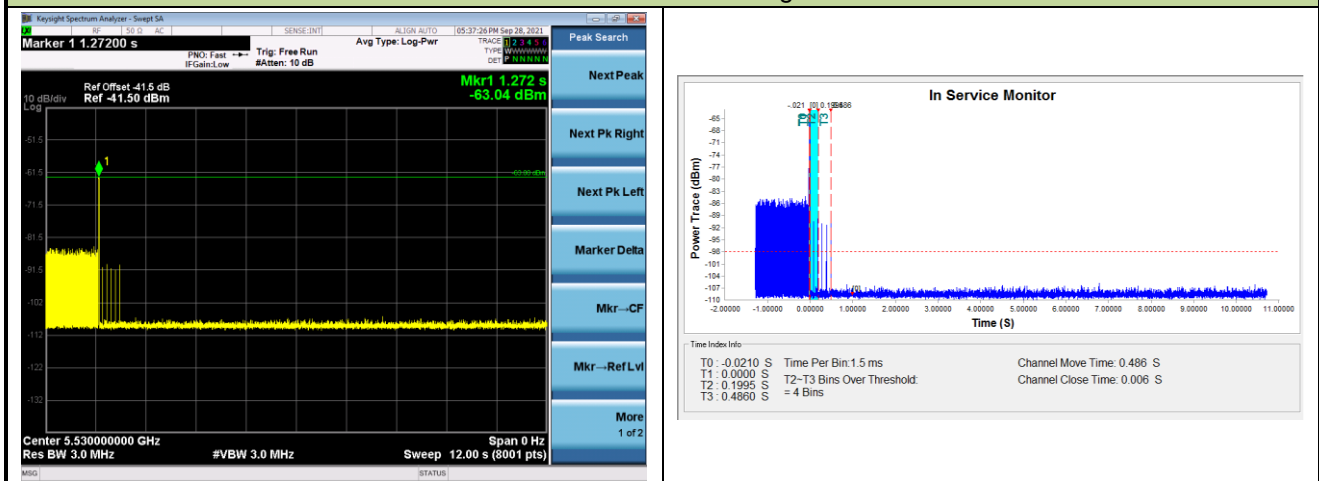
Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/28		
Test Item	End of the Channel Availability Check Time (802.11ac-VHT20 - 5500MHz) – Mode 1		



A.7 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Test Result

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/28		
Test Item	Channel Move Time and Channel Closing Transmission Time (802.11ac-VH80 mode - 5530MHz) – Mode 1		

Channel Move Time and Channel Closing Transmission Time



Non-Occupancy Period

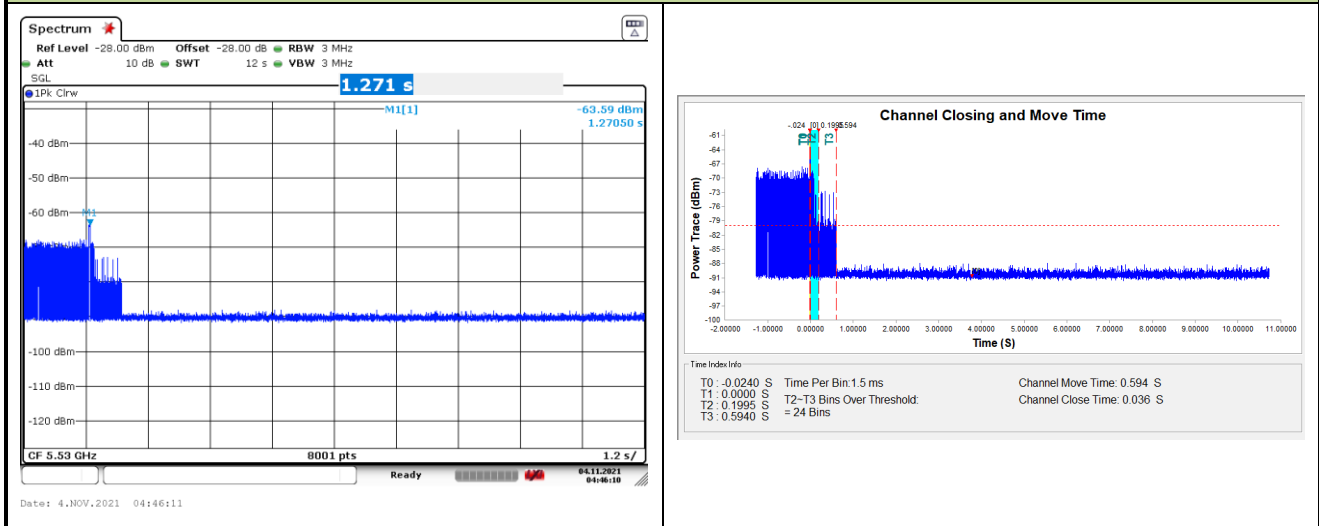


Parameter	Test Result	Limit
Channel Move Time (s)	0.486s	<10s
Channel Closing Transmission Time (ms) (Note)	6ms	< 60ms
Non-Occupancy Period (min)	≥ 30min	≥ 30 min

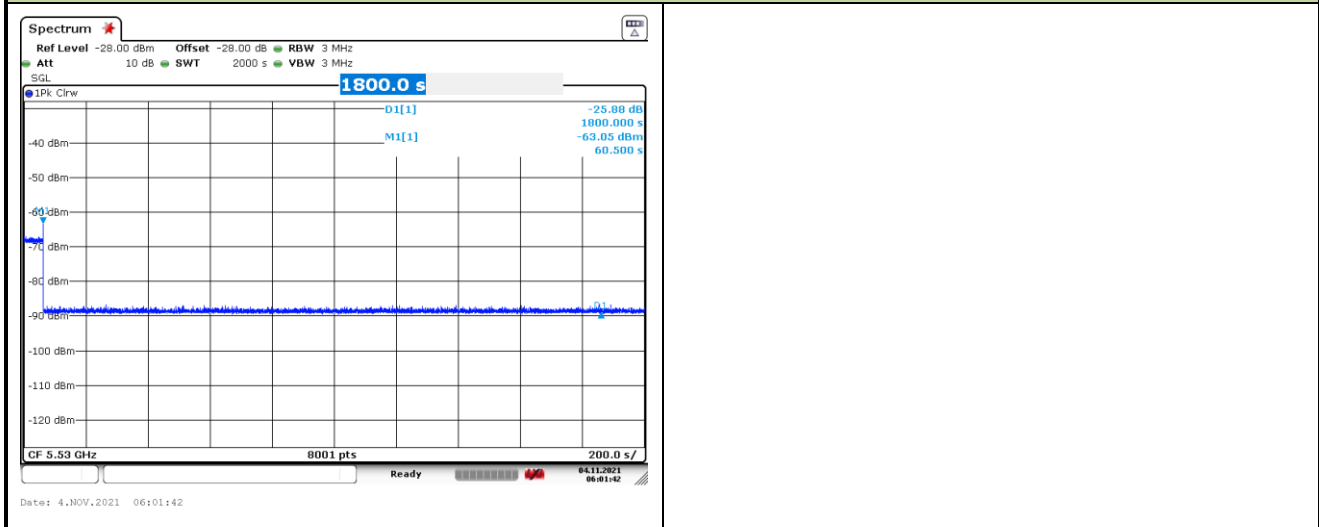
Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate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

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/11/04		
Test Item	Channel Move Time and Channel Closing Transmission Time (802.11ac-VH80 mode - 5530MHz) – Mode 3		

Channel Move Time and Channel Closing Transmission Time



Non-Occupancy Period



Parameter	Test Result	Limit
Channel Move Time (s)	0.594s	<10s
Channel Closing Transmission Time (ms) (Note)	36ms	< 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.

A.8 Statistical Performance Check

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/29~2021/09/30		
Test Item	Radar Statistical Performance Check (802.11ac-VHT20 – 5500MHz)		
Test Mode	Mode 1 (AP Mode)		

Radar Type 1-4 - Radar Statistical Performance								
Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect
0	5490.4	1	5490.4	1	5490.4	1	5490.4	1
1	5496	1	5509	0	5495	1	5497	1
2	5496	1	5493	1	5499	1	5498	1
3	5508	1	5491	1	5491	1	5503	1
4	5495	1	5505	0	5498	1	5504	1
5	5505	1	5497	1	5501	0	5493	1
6	5493	1	5503	1	5496	1	5493	1
7	5496	1	5499	1	5503	1	5495	1
8	5503	1	5498	1	5502	1	5498	1
9	5497	1	5499	1	5508	1	5509	1
10	5496	1	5505	1	5493	1	5496	1
11	5502	0	5498	0	5491	1	5493	1
12	5504	1	5509	1	5496	1	5505	1
13	5507	1	5495	0	5506	1	5498	1
14	5497	1	5502	1	5504	1	5505	1
15	5492	1	5495	1	5491	1	5497	1
16	5499	1	5496	1	5506	1	5492	1
17	5497	1	5494	1	5508	1	5509	1
18	5500	1	5499	1	5505	1	5491	1
19	5497	1	5498	0	5501	1	5492	0
20	5499	1	5505	1	5492	1	5496	1
21	5505	1	5502	1	5508	1	5504	1
22	5495	1	5495	1	5505	1	5502	1
23	5506	1	5506	1	5494	1	5497	1
24	5502	1	5500	1	5500	1	5500	1
25	5496	1	5500	1	5506	1	5494	1
26	5499	1	5491	1	5504	1	5495	1
Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	

	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect
27	5499	1	5499	1	5498	1	5506	1
28	5502	1	5496	0	5493	1	5507	1
29	5509.6	1	5509.6	1	5509.6	1	5509.6	1
Probability:	96.7%		80.0%		96.7%		96.7%	
Aggregate:	$\frac{P_d1+P_d2+P_d3+P_d4}{4} = (96.7\% + 80.0\% + 96.7\% + 96.7\%) = \mathbf{92.5\%} (>80\%)$							

Radar Type 1 - Radar Waveform				Radar Type 2 - Radar Waveform			
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μs)	Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μs)
1	62	1	858	1	29	1.9	217
2	61	1	878	2	27	3.3	198
3	86	1	618	3	25	3.1	169
4	58	1	918	4	28	2.9	152
5	74	1	718	5	25	1.7	176
6	63	1	838	6	27	1.4	206
7	70	1	758	7	23	1.3	158
8	67	1	798	8	26	3.6	165
9	81	1	658	9	29	3.9	214
10	18	1	3066	10	29	3.3	215
11	95	1	558	11	26	4.1	178
12	76	1	698	12	23	3.1	191
13	89	1	598	13	23	3.6	192
14	78	1	678	14	24	2.5	174
15	68	1	778	15	28	4.4	189
16	62	1	863	16	25	5	198
17	102	1	521	17	26	1.7	180
18	43	1	1251	18	27	2.4	220
19	53	1	1012	19	24	3.6	215
20	96	1	553	20	29	4.1	212
21	25	1	2125	21	26	2.2	219
22	30	1	1784	22	24	3.3	182
23	42	1	1279	23	23	1.5	180
24	71	1	747	24	24	3.7	229
25	21	1	2599	25	24	1.9	203
26	18	1	2933	26	28	1.9	164
27	45	1	1181	27	28	4	153
28	18	1	2950	28	27	1.6	179
29	18	1	2977	29	26	3.8	168
30	25	1	2184	30	28	3.1	211

Radar Type 3 - Radar Waveform				Radar Type 4 - Radar Waveform			
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)
1	16	6.9	396	1	16	11.8	404
2	17	9.1	492	2	14	11.8	405
3	18	6	452	3	14	16.4	339
4	17	9.9	309	4	15	18	283
5	16	7.6	348	5	12	11	440
6	17	8.5	412	6	13	17.1	438
7	17	10	362	7	15	18.1	489
8	17	7.3	474	8	13	13.6	488
9	17	7.7	254	9	13	13.8	232
10	17	6	408	10	13	15.3	258
11	16	7.2	205	11	15	14.9	323
12	18	9.3	203	12	12	11.4	452
13	17	6.1	387	13	14	11.8	287
14	16	9.6	257	14	16	19	467
15	18	6.5	324	15	16	13.1	313
16	18	7.8	488	16	16	19.6	321
17	17	6.9	496	17	14	11.2	489
18	16	7.2	452	18	14	13.6	202
19	17	7.5	337	19	13	18	227
20	18	8.7	451	20	13	17.2	455
21	16	6.3	236	21	14	11.6	233
22	18	7.2	283	22	15	17.3	459
23	17	6.7	295	23	15	11.5	403
24	18	7.7	371	24	14	17.9	214
25	17	7.5	499	25	13	18	209
26	17	9.7	402	26	13	12.3	266
27	18	8.4	252	27	13	19.5	289
28	18	9.5	241	28	16	17.7	296
29	17	9.4	288	29	16	12.9	222
30	17	6.9	276	30	16	12.6	234

Radar Type 5 - Radar Statistical Performance					
Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
0	5500	1	15	5496.8	1
1	5500	1	16	5492.4	1
2	5500	1	17	5493.2	1
3	5500	1	18	5494.4	1
4	5500	1	19	5492.8	1
5	5500	1	20	5504.8	1
6	5500	1	21	5506	1
7	5500	1	22	5507.6	1
8	5500	1	23	5504.4	1
9	5500	1	24	5507.2	1
10	5496.8	1	25	5506	1
11	5496.8	1	26	5501.6	1
12	5492.8	1	27	5503.6	1
13	5495.6	1	28	5505.6	1
14	5495.2	1	29	5506.8	1
Detection Percentage (%)			100.0%		

Type 5 Radar Waveform_0						
Burst	Number of Pulses	Pulse Width (µ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	82.1	9			403.157
2	3	67.9	9	1239	1978	10.489
3	3	61.1	9	1006	1280	649.937
4	3	69.6	9	1728	1798	489.63
5	1	61.8	9			658.993
6	2	95.6	9	1651		51.117
7	1	60.8	9			180.26
8	3	73.9	9	1054	1977	506.143
9	3	98.6	9	1593	1118	234.447
10	1	51.2	9			465.63
11	3	54.2	9	1419	1848	478.523
12	2	65.6	9	1284		602.827
13	3	56	9	1999	1944	159.84
14	2	69.1	9	1586		460.813
15	1	66	9			409.447
16	3	94	9	1323	1917	221.3
17	1	89.1	9			361.933
18	2	78.1	9	1553		135.367

Type 5 Radar Waveform_1

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	92.2	11	1872		741.441
2	2	85.2	11	1632		606.8
3	1	52.3	11			609.08
4	2	93.1	11	1467		119.11
5	1	74.9	11			698.3
6	2	56.4	11	1320		481.06
7	3	58.6	11	1295	1481	688.29
8	2	85.1	11	1390		471.67
9	2	51.1	11	1525		340.9
10	3	59.3	11	1225	1783	191.17
11	3	97.9	11	1145	1916	163.31
12	1	60	11			301.6
13	2	65.8	11	1062		370.15
14	1	82	11			293.4
15	2	58.6	11	1304		650.5
16	1	87.2	11			208.2

Type 5 Radar Waveform_2

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	50.5	10	1881		601.319
2	2	69.9	10	1590		603.25
3	3	58.9	10	1443	1538	688.31
4	2	92	10	1657		53.62
5	2	58.7	10	1058		737.17
6	2	79.6	10	1507		180.43
7	1	68.6	10			625.8
8	1	72.8	10			97.52
9	3	67.7	10	1461	1336	614.72
10	3	68.9	10	1249	1231	408.38
11	2	68.1	10	1569		768.55
12	2	79.1	10	1596		4.1
13	2	62.8	10	1688		136.77
14	1	90.8	10			590.4
15	1	50.1	10			487.4

Type 5 Radar Waveform_3

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	98.1	10	1838	1513	151.148
2	1	53.1	10			173.576
3	3	68.8	10	1568	1444	227.027
4	1	72	10			385.49
5	1	91.6	10			507.413
6	1	94.2	10			220.287
7	2	53.1	10	1999		490.58
8	2	63	10	1228		175.793
9	2	77.7	10	1308		259.007
10	2	55.4	10	1702		621.45
11	1	58.7	10			35.453
12	1	84.8	10			489.947
13	3	73.5	10	1685	1084	162.89
14	3	77.1	10	1961	1145	224.633
15	2	57.1	10	1352		32.277
16	1	68.4	10			263.5
17	2	80.8	10	1887		337.733
18	1	70.2	10			20.267

Type 5 Radar Waveform_4

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	85	16	1934		79.364
2	3	75.9	16	1316	1280	498.37
3	2	62.7	16	1715		227.37
4	1	66.5	16			500.33
5	2	63.6	16	1451		506.21
6	2	77.4	16	1417		745.93
7	3	97.1	16	1381	1367	193.59
8	1	99.8	16			146.05
9	2	98.2	16	1784		359.33
10	1	94.1	16			35.94
11	2	72.9	16	1050		200.6
12	2	68.5	16	1888		512.8

Type 5 Radar Waveform_5

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	79	13	1510		987.152
2	2	77.1	13	1136		113.44
3	3	95.2	13	1417	1018	780.58
4	1	61.9	13			241.66
5	2	76.9	13	1673		531.1
6	1	88.2	13			495.7
7	1	71.8	13			844.3
8	3	94.9	13	1951	1804	98.56
9	3	71.9	13	1474	1325	475.59
10	1	82.2	13			40.09
11	1	63	13			762.2
12	2	52.5	13	1588		839.6

Type 5 Radar Waveform_6

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	62.4	9	1136		146.893
2	2	77.9	9	1724		153.017
3	3	91.9	9	1897	1161	1.773
4	1	64.8	9			27.16
5	1	98.3	9			593.127
6	3	70.8	9	1366	1220	1312.113
7	3	72.1	9	1287	1563	386.84
8	2	96.6	9	1643		242.267
9	2	53.8	9	1320		1100.333

Type 5 Radar Waveform_7

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	68.4	9	1790	1959	404.083
2	1	87.6	9			614.518
3	2	70.5	9	1593		59.865
4	2	99.2	9	1898		366.093
5	3	55.4	9	1474	1635	563.691
6	1	98.8	9			533.808
7	1	92.2	9			34.536
8	3	77.1	9	1776	1368	292.584
9	1	81.5	9			232.011
10	1	69.4	9			684.049
11	3	92.2	9	1620	1229	306.846
12	2	63.4	9	1170		102.594
13	3	97.6	9	1926	1640	600.622
14	2	61.2	9	1810		33.419
15	1	87.9	9			440.547
16	2	83.2	9	1282		555.665
17	2	76.8	9	1165		501.882

Type 5 Radar Waveform_8

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	97.3	12	1055	1595	804.715
2	3	85.3	12	1152	1595	20.767
3	2	67.5	12	1551		675.323
4	2	60.9	12	1190		753.19
5	1	65	12			940.517
6	2	53.2	12	1902		885.533
7	3	50.3	12	1673	1828	343.82
8	1	50.2	12			691.167
9	2	97.1	12	1167		1053.533

Type 5 Radar Waveform_9

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	67.4	15	1620	1460	470.784
2	2	96.2	15	1892		263.74
3	2	61.4	15	1319		154.865
4	1	68.2	15			124.683
5	3	64.8	15	1748	1553	16.351
6	3	94.3	15	1365	1538	650.718
7	3	75.5	15	1386	1399	462.006
8	1	87.8	15			46.004
9	3	85	15	1180	1577	534.891
10	2	97.9	15	1250		197.449
11	3	86.8	15	1464	1234	275.176
12	2	97.3	15	1109		438.404
13	1	78.9	15			599.442
14	3	60	15	1692	1046	374.309
15	1	63.5	15			201.747
16	3	69.1	15	1960	1402	543.465
17	2	98.4	15	1723		179.882

Type 5 Radar Waveform_10

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	61.4	16	1173		18.494
2	3	73.5	16	1327	1892	190.481
3	2	79.4	16	1112		308.732
4	2	84.2	16	1626		659.823
5	3	64.6	16	1556	1913	40.084
6	2	92.8	16	1882		1066.075
7	1	99.6	16			468.395
8	2	51	16	1512		555.796
9	2	88.7	16	1690		259.117
10	1	80.6	16			175.608
11	1	79.7	16			52.409

Type 5 Radar Waveform_11

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	53.3	16	1717		394.146
2	2	59.4	16	1125		378.711
3	3	51.7	16	1648	1366	589.832
4	2	100	16	1805		487.383
5	3	95.4	16	1011	1411	72.704
6	2	75.4	16	1149		66.475
7	2	58.6	16	1562		535.726
8	3	78.9	16	1568	1073	71.297
9	3	78.4	16	1528	1751	371.308
10	3	64.6	16	1126	1155	161.049
11	2	99.2	16	1905		316.231
12	2	78.6	16	1630		305.672
13	2	61.6	16	1377		133.843
14	2	93.4	16	1412		289.904
15	3	97.5	16	1635	1314	208.335
16	2	88.5	16	1737		296.596
17	3	82.1	16	1637	1366	346.637
18	2	60.3	16	1641		159.758
19	2	50.2	16	1236		255.079

Type 5 Radar Waveform_12

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	68.6	6	1728		520.016
2	2	68.5	6	1579		244.9
3	3	83	6	1529	1537	313.16
4	1	81.5	6			743.5
5	2	61.1	6	1663		13.84
6	2	65.2	6	1790		331.18
7	3	63.8	6	1406	1017	692.93
8	2	60.1	6	1787		51.15
9	2	69	6	1200		648.52
10	2	61.2	6	1664		448.14
11	2	62.7	6	1900		675.73
12	2	69.3	6	1101		231.5
13	1	65.7	6			38.56
14	3	70.2	6	1272	1956	275.5
15	2	86.9	6	1973		418.1
16	3	52.8	6	1972	1027	33.5

Type 5 Radar Waveform_13

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	75.8	13	1662		618.765
2	2	64.5	13	1676		100.769
3	1	66.4	13			414.395
4	1	84.4	13			379.473
5	1	64.8	13			342.871
6	3	87.1	13	1087	1578	589.728
7	3	61.5	13	1261	1240	57.996
8	1	53.3	13			315.244
9	2	75.7	13	1954		612.311
10	2	60.3	13	1759		620.869
11	1	82.1	13			324.606
12	1	82.1	13			76.094
13	2	61.3	13	1731		611.402
14	2	56.3	13	1403		679.949
15	1	90.9	13			355.547
16	2	94.4	13	1827		591.865
17	3	71	13	1852	1624	565.382

Type 5 Radar Waveform_14

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	81.8	12	1806		416.797
2	2	71.8	12	1618		649.057
3	2	65.2	12	1629		780.664
4	3	66.4	12	1303	1572	665.261
5	1	86.7	12			37.669
6	3	66.2	12	1576	1352	729.766
7	3	70.1	12	1061	1739	646.953
8	3	69.5	12	1056	1162	424.7
9	2	55.8	12	1172		625.757
10	2	87	12	1850		704.774
11	1	75.1	12			498.721
12	2	99.2	12	1592		557.449
13	2	52.1	12	1048		520.686
14	2	94.3	12	1105		65.443

Type 5 Radar Waveform_15

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	81	16	1036		363.368
2	2	97.2	16	1349		508.95
3	2	84.2	16	1943		265.47
4	3	71.9	16	1413	1662	682.66
5	2	79.8	16	1624		239.43
6	2	78.5	16	1249		67.06
7	3	87.9	16	1857	1468	148.66
8	1	75.7	16			49.77
9	2	57.5	16	1317		164.3
10	1	63.2	16			68.09
11	1	69.5	16			133.13
12	3	78.8	16	1330	1364	712.65
13	2	86.7	16	1096		695.2
14	2	79.5	16	1484		237.4
15	1	76.5	16			58.1

Type 5 Radar Waveform_16

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	83.9	5	1451	1566	474.142
2	2	70.6	5	1493		490.007
3	1	83.9	5			48.324
4	1	89.8	5			494.531
5	1	67.5	5			496.999
6	2	98.7	5	1475		52.556
7	2	76.8	5	1217		288.803
8	1	79.5	5			229.42
9	3	70.8	5	1838	1038	810.167
10	2	94.7	5	1360		159.444
11	2	87.3	5	1311		309.761
12	2	88.5	5	1531		97.959
13	1	69.7	5			305.686
14	2	72.3	5	1973		23.143

Type 5 Radar Waveform_17

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	80.7	7			433.003
2	2	52.3	7	1337		618.72
3	2	74.5	7	1424		344.24
4	1	85.4	7			878.25
5	1	56.2	7			7.43
6	1	54.8	7			966.12
7	3	51.9	7	1382	1834	574.45
8	1	58.5	7			467.46
9	3	89.3	7	1694	1794	940.86
10	2	83.6	7	1742		706.47
11	3	60.1	7	1689	1109	386.8
12	2	64.8	7	1904		466.6

Type 5 Radar Waveform_18

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	77.3	10	1652		232.97
2	3	69.1	10	1426	1116	158.137
3	2	78.9	10	1082		673.835
4	3	81.5	10	1031	1659	143.563
5	3	88.1	10	1137	1578	78.051
6	3	71.9	10	1233	1608	665.188
7	2	89.7	10	1856		307.986
8	2	52.8	10	1459		139.054
9	2	87.5	10	1643		577.131
10	3	54.1	10	1200	1145	115.609
11	3	88.6	10	1785	1639	255.956
12	3	51.9	10	1306	1406	620.524
13	2	53.5	10	1689		315.072
14	2	84.4	10	1750		23.769
15	3	87.3	10	1504	1109	510.847
16	1	71.6	10			400.965
17	2	72.5	10	1106		425.782

Type 5 Radar Waveform_19

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	64.6	6	1830	1398	334.65
2	1	73.4	6			672.958
3	3	55.6	6	1383	1038	54.385
4	2	55.1	6	1436		293.033
5	2	52.3	6	1918		686.331
6	2	75.1	6	1141		482.998
7	3	87.1	6	1993	1534	265.736
8	3	50	6	1880	1257	570.714
9	2	80.6	6	1043		429.781
10	1	75.5	6			339.259
11	2	94	6	1757		568.516
12	3	54.6	6	1497	1558	683.434
13	3	89.7	6	1493	1291	130.272
14	3	83	6	1057	1849	471.779
15	2	83.3	6	1112		211.147
16	2	97.2	6	1682		248.565
17	2	99.9	6	1405		575.782

Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	60.3	12	1566		855.714
2	1	96.3	12			601.733
3	2	85.7	12	1472		320.826
4	1	73.2	12			698.529
5	2	94.7	12	1766		713.002
6	1	58.5	12			861.105
7	2	74.5	12	1625		312.868
8	2	79.2	12	1008		353.432
9	2	73.9	12	1695		453.695
10	1	67.2	12			42.848
11	3	71.5	12	1373	1713	893.031
12	2	88.2	12	1564		855.054
13	2	82.6	12	1586		296.877

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	82.5	9	1264		588.77
2	2	85	9	1607		581.953
3	2	84	9	1579		322.787
4	1	51.3	9			289.72
5	2	74.7	9	1173		191.273
6	1	94.4	9			53.957
7	1	53.8	9			587.99
8	2	79.1	9	1552		328.543
9	1	69.6	9			624.517
10	2	73	9	1583		93.2
11	2	62.2	9	1411		156.753
12	3	78.9	9	1171	1383	658.187
13	2	51.5	9	1632		356.3
14	3	96.2	9	1730	1770	209.803
15	2	87.8	9	1336		384.667
16	2	54.7	9	1731		477.9
17	3	99.6	9	1107	1917	244.033
18	1	84.7	9			430.767

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	91	5	1455	1603	384.022
2	2	64.9	5	1607		58.877
3	2	87.6	5	1207		396.48
4	2	61.8	5	1130		468.74
5	1	77.7	5			467.09
6	1	65.6	5			24.46
7	2	99.6	5	1435		11.06
8	3	52.1	5	1909	1044	511.56
9	1	81.3	5			542.32
10	1	68.7	5			259
11	1	95.1	5			359.65
12	3	52.9	5	1720	1361	466.21
13	1	85.7	5			593.92
14	2	60.6	5	1831		444.5
15	2	73.4	5	1860		442.83
16	2	80.8	5	1722		74.67
17	1	86.8	5			21.33
18	1	53.8	5			152.4
19	2	54.4	5	1922		134.1
20	2	57.8	5	1224		222.2

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	59.4	13	1797		179.983
2	1	63.8	13			497.52
3	2	55.3	13	1082		214.81
4	2	95.5	13	1315		516.19
5	3	86.9	13	1972	1503	626.92
6	1	67.6	13			781.88
7	1	62.1	13			324.78
8	2	61.6	13	1382		24.13
9	1	74.4	13			709.57
10	2	55.1	13	1093		680.07
11	1	99.1	13			267.36
12	1	63.7	13			193.34
13	1	77.3	13			4.73
14	1	63.9	13			32.5
15	2	51.8	13	1061		450.4

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	51.2	6			616.998
2	2	99	6	1838		200.083
3	2	89.2	6	1903		788.396
4	3	95.9	6	1124	1938	489.499
5	2	96.5	6	1570		225.622
6	1	78.6	6			19.695
7	2	64.1	6	1771		855.218
8	3	93.7	6	1266	1044	533.162
9	2	75.7	6	1550		620.155
10	2	79.2	6	1132		177.298
11	2	99.4	6	1321		486.961
12	1	81.3	6			554.554
13	2	73.9	6	1357		649.277

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	99	9	1404		964.039
2	2	61.7	9	1371		1003.737
3	2	61.5	9	1651		1319.543
4	3	97.9	9	1020	1277	1322.89
5	2	92.4	9	1167		484.077
6	2	98.3	9	1813		14.053
7	3	70.3	9	1610	1538	396.54
8	3	54.4	9	1867	1960	391.147
9	3	87.5	9	1178	1654	1020.433

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	51.5	20	1802		735.662
2	3	52.4	20	1308	1054	1108.11
3	2	83	20	1144		46.3
4	3	96.4	20	1649	1829	81.89
5	2	96.7	20	1454		75.24
6	1	92.3	20			251.08
7	3	72.3	20	1194	1718	825.88
8	2	56	20	1751		893.68
9	1	75.3	20			653.5
10	2	58.7	20	1585		709.8

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	71.5	15	1409		277.858
2	2	61.9	15	1968		19.658
3	2	65.3	15	1298		586.78
4	3	95.7	15	1318	1670	405.68
5	3	65.5	15	1050	1484	475.88
6	2	50.6	15	1429		715.04
7	1	89.7	15			485.62
8	3	50	15	1429	1569	343.1
9	3	92.9	15	1572	1369	703.14
10	3	68.8	15	1021	1334	179
11	2	74.6	15	1262		488.07
12	3	59.6	15	1068	1584	435.83
13	3	56.2	15	1840	1805	423.88
14	2	82.3	15	1103		585.3
15	3	82.9	15	1414	1521	689.8
16	3	54.2	15	1023	1512	685.9

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	73.9	10			528.392
2	2	85.5	10	1001		429.051
3	1	68.3	10			856.872
4	2	93	10	1811		711.943
5	2	71.7	10	1301		419.284
6	1	83.8	10			612.675
7	3	94	10	1000	1882	476.905
8	2	51.6	10	1337		128.476
9	2	64.2	10	1897		544.677
10	2	67.2	10	1402		224.218
11	1	96.4	10			911.709

Type 5 Radar Waveform_29

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	80	7	1299		304.242
2	1	55.1	7			96.699
3	2	73.2	7	1206		377.07
4	2	97.9	7	1214		149.49
5	3	67.2	7	1126	1363	442.83
6	2	94.2	7	1543		459.48
7	2	86.4	7	1224		789.37
8	3	73.9	7	1103	1329	517.34
9	2	51.7	7	1465		524.93
10	3	99.5	7	1060	1057	369.34
11	1	50.4	7			91.02
12	2	86.5	7	1488		685.41
13	2	80	7	1416		470.8
14	1	61.5	7			303.3
15	2	54.1	7	1730		743.2

Radar Type 6 - Radar Statistical Performance			
Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
0	1	15	1
1	1	16	1
2	1	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	0
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	0
Detection Percentage (%)		93.3%	

Type 6 Radar Waveform_0				
Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
14	5.5	5.492	20	*
16	5.5	5.491	20	*
49	5.5	5.5	20	*
55	5.5	5.51	20	*
76	5.5	5.493	20	*
82	5.5	5.49	20	*

Type 6 Radar Waveform_1				
Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
23	5.5	5.508	20	*
31	5.5	5.499	20	*
84	5.5	5.491	20	*

Type 6 Radar Waveform_2

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
24	5.5	5.508	20	*
85	5.5	5.493	20	*
92	5.5	5.496	20	*

Type 6 Radar Waveform_3

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
20	5.5	5.499	20	*
27	5.5	5.498	20	*
48	5.5	5.506	20	*
55	5.5	5.508	20	*
81	5.5	5.503	20	*

Type 6 Radar Waveform_4

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.5	5.494	20	*
11	5.5	5.504	20	*
23	5.5	5.493	20	*
51	5.5	5.501	20	*
60	5.5	5.507	20	*
94	5.5	5.496	20	*

Type 6 Radar Waveform_5

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.5	5.508	20	*
6	5.5	5.5	20	*
18	5.5	5.503	20	*
33	5.5	5.498	20	*

Type 6 Radar Waveform_6

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
34	5.5	5.491	20	*
62	5.5	5.505	20	*
81	5.5	5.496	20	*
95	5.5	5.508	20	*

Type 6 Radar Waveform_7

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
39	5.5	5.49	20	*
40	5.5	5.509	20	*
47	5.5	5.501	20	*
48	5.5	5.492	20	*
73	5.5	5.508	20	*

Type 6 Radar Waveform_8

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
32	5.5	5.493	20	*
42	5.5	5.494	20	*
82	5.5	5.507	20	*

Type 6 Radar Waveform_9

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.5	5.496	20	*
26	5.5	5.504	20	*
33	5.5	5.502	20	*
51	5.5	5.51	20	*
84	5.5	5.498	20	*

Type 6 Radar Waveform_10

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
8	5.5	5.506	20	*
11	5.5	5.5	20	*
21	5.5	5.504	20	*
27	5.5	5.503	20	*
45	5.5	5.493	20	*
46	5.5	5.494	20	*
53	5.5	5.499	20	*

Type 6 Radar Waveform_11

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
25	5.5	5.496	20	*
49	5.5	5.49	20	*
61	5.5	5.492	20	*
63	5.5	5.494	20	*

Type 6 Radar Waveform_12

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
37	5.5	5.509	20	*
91	5.5	5.491	20	*

Type 6 Radar Waveform_13

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
62	5.5	5.509	20	*
73	5.5	5.508	20	*
75	5.5	5.49	20	*
97	5.5	5.492	20	*

Type 6 Radar Waveform_14

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
45	5.5	5.499	20	*
82	5.5	5.507	20	*

Type 6 Radar Waveform_15

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
9	5.5	5.505	20	*
11	5.5	5.49	20	*
36	5.5	5.5	20	*
60	5.5	5.51	20	*
80	5.5	5.491	20	*
97	5.5	5.494	20	*

Type 6 Radar Waveform_16

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
15	5.5	5.491	20	*
71	5.5	5.503	20	*
79	5.5	5.509	20	*
87	5.5	5.494	20	*
93	5.5	5.508	20	*
97	5.5	5.497	20	*

Type 6 Radar Waveform_17

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
41	5.5	5.494	20	*

Type 6 Radar Waveform_18

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
9	5.5	5.498	20	*
37	5.5	5.51	20	*
61	5.5	5.493	20	*

Type 6 Radar Waveform_19

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
48	5.5	5.509	20	*
60	5.5	5.5	20	*
61	5.5	5.496	20	*
82	5.5	5.498	20	*
92	5.5	5.51	20	*
96	5.5	5.502	20	*

Type 6 Radar Waveform_20

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
33	5.5	5.493	20	*
35	5.5	5.498	20	*
39	5.5	5.49	20	*
56	5.5	5.504	20	*
58	5.5	5.497	20	*

Type 6 Radar Waveform_21

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
20	5.5	5.51	20	*

Type 6 Radar Waveform_22

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.5	5.503	20	*
28	5.5	5.509	20	*
29	5.5	5.494	20	*
53	5.5	5.504	20	*
77	5.5	5.506	20	*
91	5.5	5.491	20	*

Type 6 Radar Waveform_23

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
8	5.5	5.494	20	*
13	5.5	5.503	20	*
18	5.5	5.501	20	*
43	5.5	5.506	20	*
64	5.5	5.505	20	*
80	5.5	5.499	20	*

Type 6 Radar Waveform_24

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
15	5.5	5.493	20	*
33	5.5	5.499	20	*
70	5.5	5.498	20	*

Type 6 Radar Waveform_25

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
40	5.5	5.495	20	*

Type 6 Radar Waveform_26

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
33	5.5	5.495	20	*
43	5.5	5.492	20	*
53	5.5	5.49	20	*
62	5.5	5.501	20	*
77	5.5	5.51	20	*
85	5.5	5.503	20	*
87	5.5	5.508	20	*
94	5.5	5.505	20	*
99	5.5	5.507	20	*

Type 6 Radar Waveform_27

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
4	5.5	5.495	20	*
21	5.5	5.493	20	*
42	5.5	5.503	20	*
67	5.5	5.49	20	*
70	5.5	5.508	20	*
81	5.5	5.497	20	*

Type 6 Radar Waveform_28

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
7	5.5	5.505	20	*
38	5.5	5.502	20	*

Type 6 Radar Waveform_29

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
20	5.5	5502	20	*



Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/29~2021/09/30		
Test Item	Radar Statistical Performance Check (802.11ac-VHT40 – 5510MHz)		
Test Mode	Mode 1 (AP Mode)		

Radar Type 1-4 - Radar Statistical Performance								
Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect
0	5491	1	5491	1	5491	1	5491	1
1	5510	1	5500	1	5522	1	5509	1
2	5506	1	5512	1	5495	1	5494	1
3	5516	1	5516	0	5521	1	5519	1
4	5501	1	5518	1	5518	0	5515	1
5	5506	1	5498	1	5507	1	5491	1
6	5491	1	5500	1	5491	1	5515	1
7	5512	1	5512	1	5510	1	5515	1
8	5505	1	5508	1	5492	1	5504	1
9	5515	1	5510	1	5523	1	5516	1
10	5523	1	5501	1	5498	1	5509	1
11	5498	1	5492	1	5493	1	5522	0
12	5493	1	5517	0	5524	1	5507	0
13	5511	1	5517	1	5510	1	5510	0
14	5514	1	5494	1	5518	1	5504	1
15	5525	1	5497	1	5506	1	5502	1
16	5513	1	5521	1	5502	1	5502	1
17	5491	1	5494	1	5526	1	5526	1
18	5513	1	5510	1	5516	1	5496	1
19	5492	1	5500	1	5519	1	5527	1
20	5525	1	5517	1	5516	0	5500	1
21	5501	1	5509	1	5491	1	5515	1
22	5518	1	5495	1	5492	1	5516	1
23	5521	1	5529	1	5522	1	5508	1
24	5504	1	5529	1	5526	1	5501	1
25	5503	0	5513	1	5526	1	5518	1
26	5528	1	5515	1	5511	1	5512	0
27	5517	1	5519	1	5503	0	5496	1

Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect
28	5516	1	5495	1	5507	1	5500	1
29	5529	1	5529	1	5529	1	5529	1
Probability:	96.7%		93.3%		90.0%		86.7%	
Aggregate:	$\frac{P_d1+P_d2+P_d3+P_d4}{4} = (96.7\% + 93.3\% + 90.0\% + 86.7\%) = \mathbf{91.7\% (>80\%)}$							

Radar Type 1 - Radar Waveform				Radar Type 2 - Radar Waveform			
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μs)	Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μs)
1	81	1	658	1	29	2.9	192
2	59	1	898	2	26	1.5	227
3	95	1	558	3	26	3.9	198
4	65	1	818	4	27	4.8	180
5	89	1	598	5	23	1.6	214
6	63	1	838	6	26	2.3	205
7	70	1	758	7	23	4.3	199
8	58	1	918	8	24	2.9	181
9	92	1	578	9	26	3.3	187
10	78	1	678	10	25	3.6	199
11	57	1	938	11	27	4.3	208
12	62	1	858	12	24	1	217
13	61	1	878	13	25	4	167
14	72	1	738	14	26	1.2	216
15	98	1	538	15	26	4.1	230
16	37	1	1448	16	26	4.4	227
17	49	1	1078	17	26	2.4	171
18	22	1	2491	18	24	4.8	174
19	29	1	1868	19	26	1.6	172
20	43	1	1254	20	26	3.5	154
21	34	1	1559	21	27	1.4	220
22	27	1	2025	22	27	2	191
23	18	1	3044	23	25	1.8	218
24	18	1	2930	24	27	4.6	177
25	44	1	1221	25	26	2	212
26	19	1	2784	26	27	1	183
27	22	1	2438	27	27	5	166
28	50	1	1065	28	28	2.4	193
29	31	1	1721	29	23	4.3	162
30	94	1	566	30	25	4.5	230

Radar Type 3 - Radar Waveform				Radar Type 4 - Radar Waveform			
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)
1	17	6.6	295	1	14	18.9	454
2	17	6.3	448	2	12	14.3	394
3	18	9.3	494	3	14	12.8	376
4	18	7.6	451	4	16	15.6	356
5	17	9.8	467	5	14	13.4	375
6	18	7.8	451	6	13	15.8	378
7	17	8.4	322	7	13	11.9	210
8	16	8.8	482	8	15	17.1	235
9	18	9.1	404	9	14	16.1	280
10	17	9.2	472	10	16	14.9	378
11	16	8.8	489	11	15	18.4	453
12	16	9.9	239	12	15	19.7	490
13	17	6.8	481	13	14	11.5	302
14	18	9.7	389	14	13	11.3	355
15	18	9.2	434	15	15	13.7	260
16	18	6.8	443	16	16	13.5	321
17	16	8.6	241	17	13	19.6	224
18	17	6.1	266	18	15	11.4	419
19	17	7.7	345	19	16	19.4	281
20	17	9.7	344	20	14	13.5	327
21	17	9.4	456	21	12	11.1	491
22	18	8.1	342	22	13	14.1	355
23	16	7.7	455	23	13	19.5	415
24	16	7.9	300	24	13	15.4	250
25	18	8	475	25	16	11.7	284
26	16	9.3	394	26	15	15.5	387
27	17	6.2	423	27	16	11.7	322
28	17	6.6	448	28	14	14.6	322
29	17	9.9	470	29	14	11.5	224
30	18	9.8	226	30	16	13.8	460

Radar Type 5 - Radar Statistical Performance					
Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
0	5510	1	15	5495	1
1	5510	1	16	5499	1
2	5510	1	17	5498.6	1
3	5510	1	18	5493.4	1
4	5510	1	19	5497.8	1
5	5510	1	20	5526.6	1
6	5510	1	21	5521	1
7	5510	1	22	5525.8	1
8	5510	1	23	5526.6	1
9	5510	1	24	5523.4	0
10	5493	1	25	5525.8	1
11	5499	1	26	5524.2	1
12	5497.8	1	27	5525	1
13	5497	1	28	5525.4	0
14	5497.8	1	29	5525.4	1
Detection Percentage (%)			93.3%		

Type 5 Radar Waveform_0						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	77.7	6	1222		878.855
2	1	72.4	6			792.241
3	3	88	6	1734	1228	911.892
4	2	78.2	6	1782		203.523
5	2	90.5	6	1624		541.804
6	3	99.4	6	1054	1086	374.825
7	2	95.8	6	1398		10.855
8	3	65.9	6	1223	1499	770.056
9	1	85.3	6			637.907
10	2	75.7	6	1726		1029.118
11	3	56.9	6	1948	1328	393.009

Type 5 Radar Waveform_1

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	89.8	6	1645	1358	451.505
2	1	61.3	6			54.182
3	1	59.9	6			641.015
4	2	83.5	6	1663		675.223
5	1	87.9	6			392.101
6	2	74.4	6	1449		429.458
7	1	77.3	6			559.636
8	2	80.9	6	1978		550.284
9	2	94.8	6	1680		44.941
10	1	56.8	6			256.009
11	2	81.6	6	1932		647.006
12	2	55.7	6	1665		16.394
13	2	64.1	6	1156		356.132
14	1	59.2	6			56.589
15	2	89.8	6	1016		658.647
16	3	61.9	6	1874	1912	358.165
17	2	89.6	6	1862		479.882

Type 5 Radar Waveform_2

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	70.2	6			501.75
2	1	76.1	6			1126.117
3	1	62.6	6			303.773
4	3	76.9	6	1872	1806	882.3
5	1	71.5	6			828.277
6	2	85.1	6	1869		1133.313
7	3	84	6	1909	1439	287.86
8	1	60.8	6			1119.767
9	2	87.1	6	1746		1068.533

Type 5 Radar Waveform_3

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	98.1	5	1484		1133.26
2	1	80.6	5			685.55
3	3	76.5	5	1265	1688	488.34
4	2	75.1	5	1529		658.21
5	2	76.8	5	1463		539.73
6	3	72.8	5	1978	1793	1236.68
7	2	73.6	5	1401		1239.6
8	2	55.4	5	1389		341.8

Type 5 Radar Waveform_4

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	84.6	13			98.963
2	3	55.8	13	1961	1511	983.591
3	2	74.5	13	1502		894.242
4	2	71.8	13	1116		661.003
5	2	75.7	13	1299		1051.544
6	2	97.5	13	1818		950.705
7	2	79.3	13	1938		707.935
8	1	83.4	13			571.506
9	1	81	13			511.717
10	2	69.4	13	1704		492.618
11	2	55.7	13	1810		1009.809

Type 5 Radar Waveform_5

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	58.9	9	1034		282.189
2	2	89.3	9	1071		297.158
3	1	67.5	9			50.292
4	2	93.3	9	1416		294.853
5	2	66.7	9	1916		569.794
6	1	66.3	9			304.625
7	2	68.4	9	1136		596.866
8	2	69	9	1502		386.887
9	1	53.1	9			601.798
10	2	98.7	9	1892		531.339
11	3	70.2	9	1496	1519	425.141
12	2	92.1	9	1936		624.572
13	2	94.5	9	1000		357.603
14	1	81.7	9			4.794
15	2	79.7	9	1341		236.865
16	2	97.7	9	1113		307.256
17	3	99.6	9	1875	1275	289.637
18	1	91.2	9			263.858
19	1	90.9	9			280.279

Type 5 Radar Waveform_6

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	79.4	5	1634		526.458
2	2	51.4	5	1307		401.921
3	2	60.1	5	1468		619.232
4	2	62.2	5	1391		582.713
5	1	52.7	5			566.474
6	2	89.1	5	1267		308.405
7	2	60.1	5	1180		124.476
8	2	59.8	5	1738		46.647
9	3	57.8	5	1366	1256	340.528
10	1	82.1	5			466.149
11	1	60.5	5			166.721
12	3	85.9	5	1911	1238	354.642
13	3	70.2	5	1204	1822	120.873
14	1	91	5			620.804
15	2	67.4	5	1668		334.455
16	3	73.3	5	1289	1737	592.916
17	3	51.1	5	1925	1390	232.937
18	1	97.5	5			431.858
19	3	75.4	5	1919	1616	44.179

Type 5 Radar Waveform_7

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	89	6	1141	1205	79.573
2	1	56.5	6			455.701
3	3	72.9	6	1695	1759	617.962
4	2	69.4	6	1610		546.203
5	1	63.8	6			614.774
6	2	92	6	1382		162.295
7	3	60.8	6	1117	1209	429.606
8	2	61.9	6	1956		355.507
9	1	81.1	6			460.238
10	2	67.9	6	1809		569.549
11	3	66.2	6	1186	1454	16.401
12	1	94.3	6			591.242
13	1	93.9	6			511.343
14	3	85.8	6	1259	1809	454.914
15	3	67.5	6	1788	1562	210.295
16	3	68.9	6	1496	1578	350.596
17	1	78.2	6			560.637
18	1	94.4	6			246.458
19	2	96.9	6	1923		74.379

Type 5 Radar Waveform_8

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	67.5	19	1328		11.732
2	1	95	19			1168.597
3	3	68	19	1264	1243	1023.143
4	2	62.7	19	1640		667.35
5	2	57.2	19	1807		165.447
6	3	96.7	19	1892	1821	280.253
7	3	85.6	19	1186	1163	746.88
8	2	54.4	19	1220		516.057
9	2	82.6	19	1538		467.533

Type 5 Radar Waveform_9

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	59.8	17			388.094
2	2	53.8	17	1275		43.047
3	2	96.9	17	1030		581.505
4	2	64.5	17	1764		690.713
5	2	60	17	1602		319.481
6	2	97	17	1260		437.988
7	3	85.1	17	1697	1051	22.466
8	3	53.8	17	1677	1116	349.324
9	2	98.2	17	1435		660.341
10	3	94.1	17	1866	1869	82.519
11	3	97.2	17	1157	1871	89.816
12	3	67.8	17	1004	1899	92.414
13	2	82.8	17	1678		470.422
14	1	80.9	17			616.389
15	2	96.4	17	1842		326.047
16	1	58.5	17			287.365
17	2	91.3	17	1127		221.882

Type 5 Radar Waveform_10

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	94.6	5			158.564
2	2	64.5	5	1063		353.13
3	2	70.9	5	1462		107.53
4	3	88	5	1854	1992	595.6
5	1	73.9	5			154.05
6	2	59.4	5	1068		495.41
7	2	58.7	5	1314		555.41
8	1	64.9	5			335.04
9	2	98.3	5	1467		104.58
10	3	89	5	1806	1364	379.61
11	2	70.1	5	1382		449.57
12	2	62.9	5	1229		645.56
13	2	78.3	5	1370		629.98
14	2	94	5	1281		16.41
15	2	60.3	5	1180		476.7
16	3	92.8	5	1044	1096	538.4

Type 5 Radar Waveform_11

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	96.2	20			19.507
2	3	78.9	20	1497	1022	374.783
3	2	65.1	20	1981		585.337
4	3	76.2	20	1606	1927	187.96
5	2	51.7	20	1372		379.563
6	2	75.3	20	1134		329.937
7	1	95.6	20			501.57
8	3	84.7	20	1762	1437	658.403
9	3	55.6	20	1052	1756	539.987
10	2	73.5	20	1046		191.18
11	2	72.1	20	1809		584.743
12	1	68.8	20			118.067
13	2	88.3	20	1973		186.79
14	2	58.4	20	1701		621.383
15	2	93.6	20	1078		301.227
16	2	62.9	20	1997		233.3
17	1	56.4	20			643.733
18	1	90.1	20			205.767

Type 5 Radar Waveform_12

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	84.7	17			623.184
2	2	98.5	17	1020		33.106
3	3	61.2	17	1805	1976	326.307
4	1	52.3	17			215.94
5	3	78.4	17	1553	1529	106.223
6	2	77.1	17	1805		321.697
7	2	50.5	17	1218		650.71
8	2	58.6	17	1638		393.543
9	3	83.8	17	1876	1742	39.747
10	2	63.8	17	1116		47.69
11	1	62.6	17			580.893
12	3	66.1	17	1909	1606	248.787
13	2	59.4	17	1365		421.77
14	2	84.4	17	1636		115.503
15	3	91.4	17	1835	1044	53.097
16	1	73.6	17			297.6
17	1	56.6	17			558.733
18	2	56.3	17	1821		482.667

Type 5 Radar Waveform_13

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	54	15	1453		502.151
2	3	75.5	15	1799	1596	1051.21
3	2	72.5	15	1060		44.71
4	1	68.6	15			1166.85
5	2	87.4	15	1703		79.69
6	2	69.5	15	1779		39.02
7	1	60.6	15			18.05
8	2	72	15	1038		172.08
9	2	73	15	1664		1110
10	3	63.6	15	1058	1065	687.2

Type 5 Radar Waveform_14

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	80.3	17	1768	1143	310.274
2	3	88.2	17	1395	1230	551.08
3	1	61.5	17			55.28
4	2	55.6	17	1698		334.57
5	2	99.2	17	1856		208.28
6	2	72	17	1535		553.49
7	2	90.9	17	1900		470.94
8	2	73.1	17	1029		309.06
9	2	89.9	17	1410		311.85
10	2	53.9	17	1103		9.77
11	1	79.9	17			451.51
12	2	71.5	17	1682		355.98
13	2	92.1	17	1645		92.1
14	1	57.3	17			472.97
15	2	83.9	17	1499		311.41
16	2	72.8	17	1429		53.23
17	2	50.7	17	1647		593.3
18	1	96.9	17			220.6
19	2	53	17	1420		558.6
20	1	85.9	17			92.9

Type 5 Radar Waveform_15

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	60.6	10	1615		246.908
2	1	91.9	10			665.897
3	2	77.6	10	1563		917.283
4	3	97.1	10	1725	1144	899.48
5	2	50.6	10	1021		803.607
6	2	64.2	10	1462		15.663
7	2	76.2	10	1295		891.68
8	2	70.8	10	1773		967.467
9	3	91.9	10	1312	1474	913.333

Type 5 Radar Waveform_16

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	95.6	20	1774	1547	315.225
2	2	72.6	20	1329		596.611
3	1	69.4	20			113.932
4	2	67.1	20	1602		542.653
5	2	94.1	20	1138		39.674
6	1	59.8	20			78.925
7	2	82.3	20	1738		263.996
8	2	54.7	20	1673		410.267
9	2	94.4	20	1191		125.008
10	2	55.1	20	1982		396.619
11	1	58.6	20			305.691
12	2	67.7	20	1869		553.242
13	1	78.8	20			158.873
14	1	81.5	20			567.304
15	1	85.8	20			350.855
16	3	86.4	20	1263	1300	254.686
17	1	88.5	20			311.137
18	3	76.6	20	1874	1317	109.958
19	3	83.4	20	1861	1734	540.079

Type 5 Radar Waveform_17

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	79.8	19			964.555
2	2	95.9	19	1416		649.277
3	2	93.8	19	1382		1210.303
4	2	79.1	19	1055		371.36
5	3	71.8	19	1161	1336	180.747
6	2	51.6	19	1643		817.063
7	3	59.6	19	1323	1144	361.46
8	2	68.8	19	1306		941.567
9	1	81.2	19			1315.233

Type 5 Radar Waveform_18

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	96.1	6	1667	1693	362.684
2	3	64.9	6	1952	1552	596.013
3	3	59.8	6	1834	1179	4.747
4	3	56	6	1491	1178	360.78
5	1	78.1	6			455.553
6	2	86.1	6	1989		305.817
7	2	70	6	1691		478.99
8	2	80.8	6	1819		588.063
9	2	85.7	6	1028		89.697
10	2	98.1	6	1826		57.73
11	1	93.8	6			362.873
12	3	58.4	6	1724	1019	453.017
13	2	50.8	6	1628		40.79
14	3	69.8	6	1113	1367	468.833
15	2	64.9	6	1543		410.377
16	1	87.6	6			619.4
17	3	97.8	6	1808	1556	550.333
18	3	86.2	6	1321	1332	112.367

Type 5 Radar Waveform_19

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	73.8	17	1116		384.364
2	2	93.6	17	1942		281.517
3	2	98.2	17	1519		370.55
4	1	59.7	17			579.28
5	1	79.2	17			149.67
6	1	50	17			522.2
7	2	84.5	17	1981		247.25
8	2	95.7	17	1871		588.64
9	2	63.9	17	1448		516.01
10	1	55.8	17			35.79
11	1	66.5	17			110.42
12	2	99.2	17	1468		375.14
13	1	65.2	17			274.68
14	3	62.5	17	1257	1520	133.76
15	3	95.5	17	1083	1967	52.04
16	1	91.1	17			193.97
17	3	94.4	17	1256	1198	112.34
18	3	55	17	1187	1640	527.3
19	2	65.1	17	1935		310.7
20	2	58.9	17	1031		178.3

Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	92.4	6	1048		193.78
2	1	86.5	6			442.78
3	1	66.4	6			240.27
4	2	95.7	6	1032		692.45
5	3	82.4	6	1100	1604	950.83
6	2	66.7	6	1184		1073.41
7	2	60.8	6	1772		1172.79
8	3	95.7	6	1523	1131	836.75
9	2	75.8	6	1473		1030.1
10	1	60.5	6			125

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	91.1	20	1279	1605	728.613
2	2	91.7	20	1351		470.03
3	3	66	20	1125	1186	759.68
4	1	54.2	20			782.72
5	1	97.5	20			259.98
6	3	61	20	1487	1105	375.65
7	2	72.1	20	1192		130.26
8	3	54.3	20	1420	1684	45.87
9	1	79.4	20			707.2
10	2	85.3	20	1658		866.7

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	60.5	8			259.971
2	3	73.7	8	1532	1582	1133.877
3	1	72.3	8			1008.833
4	2	73.1	8	1329		180.72
5	2	71.4	8	1125		1049.967
6	2	55.5	8	1022		63.033
7	2	64.5	8	1058		1009.01
8	2	63.6	8	1260		1258.567
9	1	86.1	8			1227.533

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	85.6	6	1240	1001	181.578
2	2	93.7	6	1211		336.397
3	3	83.8	6	1523	1466	285.692
4	2	82.9	6	1533		189.443
5	1	83.5	6			182.214
6	1	86	6			479.385
7	3	53.7	6	1654	1515	477.236
8	1	69.6	6			226.857
9	3	52.3	6	1069	1191	408.058
10	1	71.4	6			334.319
11	2	65	6	1011		47.621
12	1	63.1	6			77.872
13	1	51	6			113.423
14	2	63.8	6	1433		402.414
15	1	88.4	6			92.925
16	1	53.4	6			587.716
17	2	61.3	6	1089		144.537
18	3	77.2	6	1429	1097	598.958
19	2	94.7	6	1380		168.379

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	77	14			372.03
2	2	66.3	14	1306		216.578
3	1	78.5	14			36.585
4	1	50	14			437.363
5	2	76.2	14	1580		35.291
6	2	82.5	14	1775		305.318
7	3	99.8	14	1133	1335	507.296
8	2	77.9	14	1938		110.664
9	2	60.8	14	1755		583.491
10	1	66.9	14			170.539
11	3	78.7	14	1511	1781	545.416
12	2	66.3	14	1298		249.914
13	2	99	14	1139		361.072
14	3	91.5	14	1254	1657	137.999
15	2	67.1	14	1106		73.607
16	2	95.8	14	1188		139.165
17	2	63	14	1348		553.082

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	93.3	8	1272		643.28
2	1	70.3	8			566.1
3	2	67.5	8	1321		722.05
4	3	52.6	8	1557	1430	649.73
5	2	76.5	8	1498		294.57
6	1	63.4	8			1134.57
7	2	89.8	8	1282		465.33
8	2	53	8	1215		221.99
9	1	71.7	8			910.2
10	2	50.7	8	1144		737.8

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	73.3	12	1193		372.534
2	2	86.1	12	1322		309.705
3	2	72.7	12	1425		320.42
4	3	79.6	12	1870	1320	177.48
5	2	51.5	12	1156		325.03
6	1	99.3	12			258.86
7	2	61.4	12	1002		53.58
8	2	93.8	12	1299		330.51
9	2	88.4	12	1115		469.87
10	1	97.5	12			261.59
11	1	55.9	12			431.83
12	3	79.9	12	1151	1758	289.64
13	2	67.6	12	1550		363.37
14	3	52.6	12	1412	1820	190.52
15	1	71.2	12			455.94
16	2	95.4	12	1888		377.08
17	3	65.4	12	1074	1968	562.6
18	2	73.3	12	1758		208.5
19	2	70.9	12	1141		257.6
20	2	77.3	12	1615		496.8

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	88.4	10	1324		84.186
2	2	64.2	10	1605		864.433
3	2	79.8	10	1835		492.866
4	3	89.5	10	1538	1139	865.509
5	2	86.7	10	1811		558.932
6	2	50.7	10	1124		524.445
7	1	95.3	10			505.688
8	3	60.4	10	1808	1532	825.052
9	2	96.1	10	1737		873.355
10	3	69.1	10	1728	1539	359.118
11	2	87.2	10	1443		665.561
12	3	79.5	10	1866	1448	827.754
13	1	78.5	10			412.077

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	78.9	9	1715		659.195
2	1	72.6	9			538.33
3	1	75.8	9			344.32
4	3	64.2	9	1994	1672	684.06
5	2	79.2	9	1974		21.39
6	2	85.8	9	1421		390.24
7	3	56.9	9	1089	1240	146.65
8	1	88.9	9			553.1
9	3	81	9	1746	1149	424.5
10	2	62.3	9	1376		580.02
11	1	91.9	9			29.01
12	2	53.7	9	1514		271.52
13	1	67.4	9			242.2
14	2	60.1	9	1456		616.3
15	2	90.9	9	1090		403.7
16	2	82.3	9	1739		614.5

Type 5 Radar Waveform_29

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	80.8	9	1863	1291	646.277
2	2	93.5	9	1453		290.157
3	2	97.3	9	1847		605.634
4	3	70.4	9	1931	1500	143.931
5	2	84.4	9	1934		776.659
6	2	71.2	9	1187		619.406
7	1	70.9	9			581.853
8	1	87.3	9			124.36
9	3	71.9	9	1383	1327	402.427
10	3	82.1	9	1651	1665	553.614
11	3	53.1	9	2000	1664	193.071
12	2	74.9	9	1684		834.029
13	3	85.2	9	1578	1308	152.086
14	1	57.8	9			139.443

Radar Type 6 - Radar Statistical Performance			
Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
0	1	15	1
1	1	16	1
2	1	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	1
Detection Percentage (%)		100%	

Type 6 Radar Waveform_0				
Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.51	5.51	40	*
20	5.51	5.518	40	*
30	5.51	5.525	40	*
33	5.51	5.528	40	*
40	5.51	5.519	40	*
61	5.51	5.491	40	*
74	5.51	5.494	40	*
92	5.51	5.496	40	*

Type 6 Radar Waveform_1

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
55	5.51	5.516	40	*
56	5.51	5.524	40	*
65	5.51	5.498	40	*
69	5.51	5.53	40	*
73	5.51	5.514	40	*
74	5.51	5.505	40	*
95	5.51	5.494	40	*

Type 6 Radar Waveform_2

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
4	5.51	5.498	40	*
8	5.51	5.499	40	*
14	5.51	5.513	40	*
38	5.51	5.506	40	*
41	5.51	5.51	40	*
64	5.51	5.516	40	*
69	5.51	5.519	40	*
75	5.51	5.507	40	*
79	5.51	5.491	40	*
83	5.51	5.523	40	*

Type 6 Radar Waveform_3

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
3	5.51	5.527	40	*
6	5.51	5.526	40	*
44	5.51	5.502	40	*
53	5.51	5.505	40	*
54	5.51	5.496	40	*
72	5.51	5.522	40	*
81	5.51	5.491	40	*

Type 6 Radar Waveform_4

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
4	5.51	5.51	40	*
8	5.51	5.519	40	*
25	5.51	5.491	40	*
30	5.51	5.506	40	*
75	5.51	5.521	40	*
77	5.51	5.501	40	*

Type 6 Radar Waveform_5

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
8	5.51	5.53	40	*
22	5.51	5.499	40	*
25	5.51	5.506	40	*
32	5.51	5.5	40	*
46	5.51	5.512	40	*
53	5.51	5.491	40	*
55	5.51	5.507	40	*
59	5.51	5.505	40	*
64	5.51	5.524	40	*
65	5.51	5.522	40	*
79	5.51	5.528	40	*
80	5.51	5.526	40	*
86	5.51	5.527	40	*

Type 6 Radar Waveform_6

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
6	5.51	5.523	40	*
17	5.51	5.496	40	*
19	5.51	5.514	40	*
20	5.51	5.494	40	*
31	5.51	5.513	40	*
36	5.51	5.511	40	*
54	5.51	5.517	40	*
59	5.51	5.504	40	*
71	5.51	5.495	40	*

Type 6 Radar Waveform_7

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.51	5.528	40	*
19	5.51	5.499	40	*
26	5.51	5.518	40	*
51	5.51	5.496	40	*
54	5.51	5.519	40	*

Type 6 Radar Waveform_8

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
13	5.51	5.527	40	*
21	5.51	5.526	40	*
23	5.51	5.506	40	*
25	5.51	5.496	40	*
66	5.51	5.507	40	*
68	5.51	5.521	40	*
71	5.51	5.518	40	*
80	5.51	5.491	40	*
92	5.51	5.514	40	*
93	5.51	5.512	40	*

Type 6 Radar Waveform_9

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
13	5.51	5.499	40	*
17	5.51	5.514	40	*
18	5.51	5.526	40	*
31	5.51	5.53	40	*
48	5.51	5.496	40	*
76	5.51	5.492	40	*
86	5.51	5.516	40	*

Type 6 Radar Waveform_10

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
54	5.51	5.514	40	*
70	5.51	5.496	40	*
78	5.51	5.501	40	*

Type 6 Radar Waveform_11

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
9	5.51	5.516	40	*
16	5.51	5.51	40	*
29	5.51	5.497	40	*
45	5.51	5.502	40	*
66	5.51	5.515	40	*
81	5.51	5.529	40	*
82	5.51	5.511	40	*
84	5.51	5.526	40	*
98	5.51	5.505	40	*

Type 6 Radar Waveform_12

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
6	5.51	5.501	40	*
10	5.51	5.504	40	*
22	5.51	5.529	40	*
23	5.51	5.491	40	*
42	5.51	5.51	40	*
43	5.51	5.502	40	*
67	5.51	5.5	40	*
68	5.51	5.519	40	*

Type 6 Radar Waveform_13

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.51	5.526	40	*
13	5.51	5.514	40	*
17	5.51	5.52	40	*
23	5.51	5.499	40	*
27	5.51	5.491	40	*
28	5.51	5.494	40	*
33	5.51	5.522	40	*
50	5.51	5.49	40	*
62	5.51	5.492	40	*
64	5.51	5.503	40	*
87	5.51	5.493	40	*
93	5.51	5.506	40	*

Type 6 Radar Waveform_14

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
10	5.51	5.526	40	*
23	5.51	5.499	40	*
54	5.51	5.502	40	*
55	5.51	5.519	40	*
82	5.51	5.527	40	*
85	5.51	5.51	40	*
91	5.51	5.522	40	*

Type 6 Radar Waveform_15

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
10	5.51	5.507	40	*
20	5.51	5.515	40	*
31	5.51	5.495	40	*
53	5.51	5.494	40	*
97	5.51	5.53	40	*
99	5.51	5.493	40	*
100	5.51	5.51	40	*

Type 6 Radar Waveform_16

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.51	5.504	40	*
24	5.51	5.517	40	*
60	5.51	5.527	40	*
71	5.51	5.506	40	*
75	5.51	5.51	40	*
77	5.51	5.494	40	*
91	5.51	5.507	40	*
96	5.51	5.495	40	*
97	5.51	5.496	40	*

Type 6 Radar Waveform_17

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
20	5.51	5.514	40	*
38	5.51	5.502	40	*
39	5.51	5.511	40	*
61	5.51	5.51	40	*
68	5.51	5.522	40	*
78	5.51	5.506	40	*
94	5.51	5.512	40	*

Type 6 Radar Waveform_18

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
24	5.51	5.515	40	*
32	5.51	5.52	40	*
33	5.51	5.519	40	*
40	5.51	5.53	40	*
70	5.51	5.527	40	*
72	5.51	5.51	40	*
86	5.51	5.498	40	*
89	5.51	5.503	40	*
90	5.51	5.526	40	*

Type 6 Radar Waveform_19

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.51	5.507	40	*
25	5.51	5.516	40	*
31	5.51	5.526	40	*
44	5.51	5.529	40	*
63	5.51	5.494	40	*
86	5.51	5.52	40	*

Type 6 Radar Waveform_20

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
10	5.51	5.5	40	*
47	5.51	5.492	40	*
52	5.51	5.514	40	*
72	5.51	5.496	40	*
73	5.51	5.507	40	*
75	5.51	5.494	40	*
78	5.51	5.53	40	*
85	5.51	5.498	40	*

Type 6 Radar Waveform_21

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
45	5.51	5.515	40	*
72	5.51	5.525	40	*
94	5.51	5.494	40	*

Type 6 Radar Waveform_22

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
10	5.51	5.501	40	*
18	5.51	5.509	40	*
19	5.51	5.502	40	*
22	5.51	5.525	40	*
31	5.51	5.503	40	*
41	5.51	5.514	40	*
57	5.51	5.518	40	*
71	5.51	5.495	40	*
77	5.51	5.522	40	*
90	5.51	5.491	40	*

Type 6 Radar Waveform_23

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
7	5.51	5.491	40	*
10	5.51	5.517	40	*
57	5.51	5.516	40	*
61	5.51	5.529	40	*
65	5.51	5.513	40	*
74	5.51	5.508	40	*
96	5.51	5.495	40	*

Type 6 Radar Waveform_24

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
6	5.51	5.498	40	*
16	5.51	5.516	40	*
31	5.51	5.491	40	*
40	5.51	5.501	40	*
41	5.51	5.515	40	*
48	5.51	5.514	40	*
75	5.51	5.522	40	*
83	5.51	5.527	40	*

Type 6 Radar Waveform_25

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.51	5.499	40	*
5	5.51	5.514	40	*
16	5.51	5.509	40	*
26	5.51	5.521	40	*
31	5.51	5.517	40	*
33	5.51	5.526	40	*
44	5.51	5.508	40	*
48	5.51	5.513	40	*
54	5.51	5.501	40	*
93	5.51	5.522	40	*
95	5.51	5.511	40	*
98	5.51	5.494	40	*

Type 6 Radar Waveform_26

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
8	5.51	5.495	40	*
21	5.51	5.502	40	*
28	5.51	5.503	40	*
33	5.51	5.513	40	*
40	5.51	5.498	40	*
47	5.51	5.499	40	*
60	5.51	5.516	40	*
65	5.51	5.493	40	*
72	5.51	5.5	40	*
82	5.51	5.512	40	*
86	5.51	5.491	40	*
95	5.51	5.529	40	*

Type 6 Radar Waveform_27

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
10	5.51	5.509	40	*
23	5.51	5.515	40	*
27	5.51	5.498	40	*
37	5.51	5.493	40	*
60	5.51	5.527	40	*
91	5.51	5.516	40	*
92	5.51	5.524	40	*
97	5.51	5.519	40	*

Type 6 Radar Waveform_28

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
7	5.51	5.527	40	*
14	5.51	5.494	40	*
79	5.51	5.495	40	*
82	5.51	5.52	40	*
86	5.51	5.502	40	*

Type 6 Radar Waveform_29

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.51	5.526	40	*
17	5.51	5.51	40	*
18	5.51	5.49	40	*
36	5.51	5.505	40	*
38	5.51	5.513	40	*
86	5.51	5.507	40	*
90	5.51	5.509	40	*



Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/29~2021/09/30		
Test Item	Radar Statistical Performance Check (802.11ac-VHT80 – 5530MHz)		
Test Mode	Mode 1 (AP Mode)		

Radar Type 1-4 - Radar Statistical Performance								
Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect
0	5491	1	5491	1	5491	0	5491	0
1	5511	1	5554	1	5525	1	5537	1
2	5530	1	5512	1	5559	1	5496	1
3	5530	1	5557	1	5534	1	5501	1
4	5544	1	5541	1	5530	1	5566	1
5	5569	1	5512	1	5501	1	5512	1
6	5525	1	5554	1	5520	1	5532	1
7	5530	1	5516	1	5500	1	5518	1
8	5534	1	5514	0	5512	1	5544	1
9	5498	1	5537	1	5508	1	5503	0
10	5550	1	5566	1	5561	0	5540	1
11	5542	1	5530	1	5514	1	5530	1
12	5503	1	5569	1	5568	1	5504	1
13	5551	1	5557	1	5569	1	5545	1
14	5563	1	5563	1	5529	1	5534	1
15	5492	1	5504	1	5531	1	5569	1
16	5523	1	5518	1	5497	1	5520	0
17	5564	1	5519	1	5549	1	5509	1
18	5493	1	5515	1	5515	1	5521	1
19	5556	1	5534	0	5520	1	5511	1
20	5524	1	5559	1	5566	1	5546	1
21	5568	1	5563	1	5558	1	5510	1
22	5558	1	5561	1	5523	1	5568	0
23	5545	1	5530	1	5518	0	5510	1
24	5494	1	5512	1	5553	1	5519	1
25	5532	1	5521	1	5565	1	5533	1
26	5548	1	5505	1	5556	1	5502	1
27	5499	1	5537	0	5516	0	5500	1

Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect
28	5554	1	5494	1	5502	1	5520	0
29	5569	1	5569	1	5569	0	5569	0
Probability:	100%		90.0%		83.3%		80.0%	
Aggregate:	$\frac{P_d1+P_d2+P_d3+P_d4}{4} = (100\% + 90.0\% + 83.3\% + 80.0\%) = \mathbf{88.3\% (>80\%)}$							

Radar Type 1 - Radar Waveform				Radar Type 2 - Radar Waveform			
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μs)	Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μs)
1	63	1	838	1	27	4.5	155
2	92	1	578	2	24	2.6	199
3	68	1	778	3	28	4.5	221
4	62	1	858	4	26	2.2	161
5	59	1	898	5	26	3.3	200
6	98	1	538	6	24	3	160
7	81	1	658	7	26	4.4	206
8	18	1	3066	8	26	3.6	166
9	58	1	918	9	29	3.7	165
10	74	1	718	10	25	1.2	213
11	89	1	598	11	28	1.5	155
12	95	1	558	12	27	1	170
13	70	1	758	13	27	4.6	224
14	61	1	878	14	24	3.5	169
15	67	1	798	15	25	1.9	171
16	56	1	955	16	27	4.4	195
17	24	1	2203	17	26	4.3	186
18	28	1	1901	18	27	1.7	212
19	31	1	1711	19	25	3.2	213
20	25	1	2190	20	25	3.6	186
21	30	1	1766	21	27	3.8	162
22	43	1	1242	22	27	2.7	228
23	24	1	2248	23	29	3.5	224
24	31	1	1702	24	26	3.5	211
25	29	1	1872	25	23	2.5	203
26	31	1	1715	26	27	4.1	163
27	99	1	536	27	25	1.6	203
28	20	1	2762	28	26	3.4	156
29	20	1	2747	29	25	1.8	209
30	20	1	2643	30	29	4.1	214

Radar Type 3 - Radar Waveform				Radar Type 4 - Radar Waveform			
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)
1	17	8.3	296	1	13	13.8	237
2	17	8.6	291	2	16	15.3	355
3	17	8	489	3	15	15.6	354
4	18	6.4	471	4	13	19.3	353
5	18	8.7	447	5	15	15.3	482
6	17	6.8	326	6	16	18.9	277
7	16	9.3	389	7	15	16.1	367
8	16	6.4	496	8	14	12.1	436
9	16	9	384	9	15	13.5	469
10	17	8.4	334	10	12	16.6	428
11	17	8.6	307	11	12	12.8	241
12	18	7.7	443	12	15	15.3	495
13	17	6.5	310	13	15	17.7	246
14	16	8	240	14	14	14.7	480
15	17	6.2	484	15	12	16.6	454
16	17	7.3	283	16	13	19.9	389
17	18	8.7	316	17	13	19.4	337
18	17	8.6	376	18	15	19	243
19	18	10	404	19	14	12.2	370
20	18	7	270	20	15	13.9	381
21	17	8.2	281	21	16	13.5	234
22	17	9.3	399	22	15	16.2	319
23	17	9.1	436	23	13	16.9	248
24	16	8.4	204	24	16	18.8	319
25	16	6.5	220	25	13	19.8	341
26	17	9.3	463	26	13	18.2	255
27	17	9.6	419	27	14	16.2	394
28	16	8.7	387	28	13	17.5	456
29	17	6.9	426	29	15	14.7	448
30	17	9.7	326	30	13	13.2	360

Radar Type 5 - Radar Statistical Performance					
Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
0	5530	1	15	5495.8	1
1	5530	1	16	5494.2	1
2	5530	1	17	5494.6	1
3	5530	1	18	5493.4	1
4	5530	1	19	5498.2	1
5	5530	1	20	5566.6	1
6	5530	1	21	5565	1
7	5530	1	22	5561.8	1
8	5530	1	23	5565.4	1
9	5530	1	24	5565.8	1
10	5495.4	1	25	5563.4	1
11	5496.6	1	26	5563	1
12	5497.4	1	27	5563.4	1
13	5496.2	1	28	5565.4	1
14	5496.6	1	29	5563.4	1
Detection Percentage (%)			100%		

Type 5 Radar Waveform_0						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	80	12	1461		322.26
2	1	71.9	12			43.381
3	3	97.1	12	1323	1452	1080.122
4	2	69.3	12	1502		98.983
5	1	83.1	12			1012.904
6	1	77.5	12			212.895
7	2	50.8	12	1864		1036.465
8	2	81.9	12	1804		933.216
9	3	72.1	12	1461	1890	174.657
10	2	95.1	12	1388		997.618
11	1	66.6	12			446.509

Type 5 Radar Waveform_1

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	71.9	6			128.482
2	3	85.7	6	1832	1341	525.531
3	3	55.4	6	1083	1768	56.182
4	2	98.2	6	1237		609.653
5	3	80.1	6	1697	1369	304.994
6	2	57.7	6	1109		128.685
7	2	97.5	6	1422		547.556
8	3	99.2	6	1262	1496	624.467
9	3	53.9	6	1893	1781	206.548
10	1	66.4	6			468.029
11	2	59.4	6	1998		339.241
12	2	97.8	6	1775		53.222
13	1	58.3	6			79.203
14	3	82.4	6	1956	1164	500.274
15	2	84.7	6	1114		332.535
16	2	74.7	6	1208		83.526
17	3	55.1	6	1575	1983	513.337
18	2	67	6	1924		475.858
19	1	59.6	6			261.079

Type 5 Radar Waveform_2

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	88	13	1520		315.427
2	1	75.8	13			383.95
3	3	98.1	13	1697	1735	135.53
4	2	50.4	13	1162		730.92
5	2	78.5	13	1911		22.55
6	3	71.6	13	1154	1083	480.54
7	2	60.2	13	1154		734.56
8	1	88.8	13			642.51
9	3	89.1	13	1591	1095	396.73
10	2	86	13	1987		400.2
11	2	97.7	13	1454		491.96
12	2	81.5	13	1327		359.02
13	2	74.8	13	1938		489.09
14	1	94.7	13			69.33
15	1	65	13			527.6
16	2	62.1	13	1441		88.6

Type 5 Radar Waveform_3

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	53.3	18	1771	1351	673.125
2	2	61.6	18	1632		729.62
3	2	73.1	18	1162		505.38
4	3	64.6	18	1572	1595	144.21
5	2	77.6	18	1029		626.32
6	2	62.2	18	1396		185.05
7	1	58.3	18			454.82
8	1	96	18			414.9
9	1	51.8	18			595.17
10	3	89.4	18	1706	1812	252.34
11	2	92.5	18	1423		522.55
12	3	88.2	18	1178	1577	14.2
13	3	55	18	1396	1384	367.43
14	1	71.3	18			529.8
15	1	76.8	18			363.9

Type 5 Radar Waveform_4

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	96.4	8	1399	1982	904.526
2	2	89.7	8	1048		1076.79
3	2	75.8	8	1357		899.48
4	3	90.9	8	1821	1165	148.05
5	2	76.4	8	1435		1240.72
6	3	82	8	1314	1634	360.49
7	2	90.3	8	1466		300.65
8	1	63.5	8			1419

Type 5 Radar Waveform_5

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	76	20			222.247
2	1	63.8	20			318.818
3	2	98.4	20	1775		374.942
4	2	89.1	20	1258		95.753
5	2	53.4	20	1712		131.054
6	2	94	20	1009		321.795
7	2	77.2	20	1892		390.836
8	1	88.3	20			428.187
9	2	56.2	20	1354		416.888
10	1	81.2	20			387.349
11	2	78.2	20	1860		81.221
12	3	69.8	20	1173	1712	395.162
13	2	96.3	20	1952		62.863
14	2	91.9	20	1502		503.594
15	1	61.6	20			480.015
16	1	51.9	20			407.426
17	2	80.7	20	1650		359.137
18	2	93.3	20	1829		435.958
19	2	94.6	20	1952		580.879

Type 5 Radar Waveform_6

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	89	15			495.729
2	1	73.3	15			983.57
3	1	80.9	15			905.39
4	3	63	15	1047	1017	735.85
5	1	99.7	15			164.43
6	1	86.3	15			1121.29
7	3	82.7	15	1565	1743	569.7
8	1	59.7	15			844.1
9	2	91.1	15	1832		679.9
10	3	96.8	15	1603	1185	434.7

Type 5 Radar Waveform_7

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	70.3	19			642.828
2	2	54	19	1517		631.11
3	2	61.6	19	1889		109.59
4	2	74.5	19	1506		441.5
5	3	69.1	19	1114	1455	29.14
6	1	89.2	19			81.34
7	1	57.1	19			386.34
8	3	63.4	19	1741	1828	225.29
9	3	60	19	1979	1187	142.05
10	1	82.2	19			405.39
11	1	85.1	19			398.44
12	3	97.2	19	1753	1330	106.87
13	3	69.2	19	1184	1705	714.11
14	2	75.6	19	1890		721.3
15	1	90.6	19			491.3
16	1	87.7	19			281.1

Type 5 Radar Waveform_8

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	73.2	14	1713		581.43
2	3	50.7	14	1853	1469	312.8
3	3	67.4	14	1923	1421	236.45
4	2	63.4	14	1683		793.33
5	2	97.1	14	1429		414.82
6	2	65.5	14	1355		778.94
7	2	61.8	14	1581		874.17
8	2	54.8	14	1664		444.56
9	1	70.8	14			226.4
10	1	91.4	14			432.1

Type 5 Radar Waveform_9

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	60.2	18			452.271
2	1	63.9	18			580.83
3	2	73.4	18	1371		99.68
4	2	91	18	1029		431.72
5	3	80.2	18	1244	1295	3.95
6	1	87.9	18			438.26
7	1	99.3	18			432.35
8	2	87.1	18	1226		166.25
9	2	85.8	18	1051		585.22
10	2	81.6	18	1978		271.27
11	2	65.8	18	1521		314.75
12	2	65.6	18	1067		288.96
13	2	95.5	18	1257		172.68
14	3	68	18	1763	1115	270.8
15	2	70.8	18	1224		111.65
16	2	72.3	18	1236		15.82
17	2	81.7	18	1377		501.5
18	2	67.8	18	1526		21.7
19	2	53.2	18	1295		479
20	1	55	18			92.4

Type 5 Radar Waveform_10

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	69.9	11			323.196
2	2	76.2	11	1362		460.688
3	2	59.8	11	1680		182.575
4	3	94	11	1288	1788	247.983
5	2	63.3	11	1585		530.561
6	2	95	11	1277		486.938
7	3	69.9	11	1116	1262	178.816
8	2	50.8	11	1027		504.544
9	2	85.4	11	1322		408.541
10	2	73.1	11	1389		84.099
11	2	52.9	11	1994		95.556
12	1	55.6	11			200.944
13	3	74.1	11	1617	1757	168.612
14	3	52.4	11	1495	1217	148.719
15	2	88.1	11	1213		475.447
16	1	99.3	11			12.565
17	2	86.1	11	1525		371.282

Type 5 Radar Waveform_11

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	64.7	14			63.854
2	2	62.1	14	1685		299.648
3	3	90.8	14	1753	1041	542.715
4	2	86.5	14	1508		55.593
5	2	56.9	14	1168		680.541
6	1	69.2	14			474.718
7	2	94.4	14	1803		578.746
8	3	79.5	14	1225	1757	472.474
9	1	60	14			693.931
10	2	90.3	14	1454		55.579
11	2	62	14	1879		222.726
12	3	52.8	14	1484	1108	214.664
13	2	87.6	14	1753		428.492
14	3	61.4	14	1944	1670	310.099
15	3	66.7	14	1429	1490	470.447
16	2	60.3	14	1805		213.865
17	2	62.2	14	1495		259.482

Type 5 Radar Waveform_12

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	85.8	16			570.587
2	2	78	16	1202		69.634
3	1	50.9	16			199.927
4	2	83.6	16	1904		293.55
5	1	81.3	16			153.223
6	1	69.1	16			66.557
7	2	57.5	16	1982		321.21
8	2	98.9	16	1978		4.393
9	2	52.7	16	1178		432.417
10	2	79.4	16	1243		104.84
11	2	80.9	16	1477		487.533
12	2	68.4	16	1490		566.247
13	3	98.3	16	1981	1437	439.49
14	1	89.5	16			268.803
15	2	71.8	16	1316		554.507
16	2	52.6	16	1681		11.2
17	3	72.2	16	1739	1882	530.233
18	3	85.6	16	1723	1313	28.467

Type 5 Radar Waveform_13

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	86.9	13	1720		253.732
2	1	50.9	13			278.198
3	3	64.7	13	1582	1318	632.525
4	3	60.2	13	1307	1236	583.393
5	2	53.5	13	1990		662.541
6	1	94.4	13			570.028
7	1	51.8	13			231.876
8	1	98	13			218.514
9	2	54.9	13	1605		216.611
10	2	65.5	13	1864		260.039
11	3	69	13	1722	1308	378.196
12	3	82.8	13	1510	1257	628.604
13	3	59.1	13	1125	1520	164.252
14	3	93.1	13	1425	1583	18.779
15	2	72.7	13	1329		333.647
16	2	57.7	13	1440		11.365
17	2	94.2	13	1681		367.682

Type 5 Radar Waveform_14

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	55.2	14	1932	1704	182.338
2	1	54.4	14			404.23
3	3	68.4	14	1218	1286	693.44
4	2	59.4	14	1869		467.29
5	2	97	14	1655		177.73
6	3	59.8	14	1472	1843	481.92
7	3	64.8	14	1717	1017	565.78
8	1	85.9	14			21.78
9	1	75.1	14			346.7
10	3	70.8	14	1645	1917	234.23
11	2	90.6	14	1853		634.1
12	2	82.1	14	1832		785.51
13	1	95.3	14			409.9
14	2	59.1	14	1104		318.2
15	2	59.3	14	1314		61.8

Type 5 Radar Waveform_15

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	73.1	12	1489	1724	668.853
2	2	95	12	1592		379.418
3	2	59.2	12	1614		69.215
4	2	96.4	12	1035		488.873
5	2	67.2	12	1381		559.011
6	2	60.7	12	1224		383.478
7	2	60.2	12	1984		682.956
8	2	97.6	12	1252		217.144
9	2	78.9	12	1147		638.691
10	2	57.4	12	1931		350.159
11	2	98.7	12	1224		379.736
12	2	52.4	12	1361		294.924
13	1	70.4	12			354.892
14	2	56.9	12	1134		525.329
15	2	77.9	12	1956		230.147
16	1	91.6	12			186.165
17	2	86.8	12	1768		654.282

Type 5 Radar Waveform_16

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	99.9	8	1927	1057	180.942
2	2	57.1	8	1759		201.965
3	2	55.2	8	1299		637.197
4	2	51.2	8	1749		9.16
5	3	57.5	8	1207	1691	345.623
6	3	88.2	8	1524	1687	616.787
7	2	50.6	8	1785		75.13
8	2	81.8	8	1800		97.633
9	3	72.9	8	1165	1054	456.337
10	2	63.4	8	1954		347.12
11	2	93.1	8	1820		414.573
12	2	56.2	8	1727		648.697
13	3	60.1	8	1556	1349	433.54
14	2	91.1	8	1467		480.493
15	2	82.5	8	1694		117.497
16	3	54.5	8	1156	1412	3.2
17	1	91.1	8			142.533
18	2	70.8	8	1843		586.867

Type 5 Radar Waveform_17

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	72.6	9			527.998
2	2	98.4	9	1967		708.833
3	3	96.9	9	1414	1670	298.406
4	2	89.7	9	1723		241.729
5	1	54.9	9			843.842
6	3	57.3	9	1221	1492	853.095
7	2	64.4	9	1607		718.258
8	3	73.4	9	1903	1183	611.902
9	3	52	9	1105	1637	597.315
10	1	66.4	9			819.138
11	2	63.4	9	1353		700.721
12	3	58.6	9	1928	1236	436.254
13	3	67.2	9	1445	1811	177.077

Type 5 Radar Waveform_18

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	67.1	6	1015		268.447
2	3	88.4	6	1886	1907	0.511
3	1	67.1	6			296.55
4	2	61.3	6	1548		479.84
5	1	88.3	6			448.93
6	2	58.5	6	1993		463.34
7	2	75.2	6	1788		669.32
8	3	97.7	6	1631	1468	18.86
9	2	72.6	6	1778		631.92
10	3	57.3	6	1901	1216	112.38
11	2	75.5	6	1808		380.9
12	1	98.2	6			663.42
13	2	94.2	6	1039		29.48
14	1	90.5	6			459.7
15	1	74.1	6			105.5
16	2	92	6	1078		126.2

Type 5 Radar Waveform_19

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	56.1	18	1341		949.123
2	1	67.1	18			538.66
3	2	91.7	18	1717		899.57
4	2	89.8	18	1036		334.05
5	1	67.7	18			271.79
6	1	97.4	18			711.48
7	2	99.1	18	1102		966.9
8	3	74.3	18	1929	1038	514.36
9	2	99.2	18	1811		440.74
10	3	97.4	18	1757	1142	601.19
11	3	58.9	18	1127	1487	775.8
12	1	61.1	18			838.9

Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	68	6			685.692
2	2	76.3	6	1007		410.61
3	2	92.3	6	1707		727.81
4	2	78.7	6	1060		567.98
5	3	67.6	6	1567	1979	981.88
6	2	67.9	6	1607		565.88
7	1	90.1	6			251.02
8	2	75.8	6	1420		989.21
9	1	71.8	6			151.17
10	3	54.8	6	1537	1906	737.91
11	2	58.7	6	1884		940.8
12	1	94.6	6			654.9

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	95.1	10	1219		145.523
2	3	78.4	10	1666	1000	651.077
3	1	52.3	10			717.604
4	2	62.3	10	1526		337.941
5	1	95.7	10			524.459
6	2	63.8	10	1144		121.356
7	1	79.5	10			62.033
8	2	59.2	10	1599		108.84
9	2	57.6	10	1768		723.317
10	2	73.8	10	1318		583.834
11	1	90.9	10			491.291
12	2	94.9	10	1796		697.529
13	3	95.7	10	1345	1987	219.386
14	2	60.2	10	1390		240.243

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	69	18	1658	1881	789.334
2	1	50	18			267.873
3	3	61	18	1975	1105	350.446
4	2	85.1	18	1522		863.919
5	2	71.3	18	1356		749.822
6	3	98.9	18	1248	1172	453.665
7	3	65.4	18	1995	1947	82.418
8	3	79.3	18	1618	1855	431.572
9	2	66.9	18	1829		94.475
10	1	76.8	18			394.098
11	3	50.1	18	1828	1804	676.081
12	2	73.7	18	1726		609.254
13	2	74.5	18	1615		579.177

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	60.9	9	1606		730.32
2	2	53.7	9	1141		651.111
3	2	90.1	9	1844		921.012
4	2	83.9	9	1881		14.213
5	1	56.1	9			971.374
6	2	84.3	9	1979		136.705
7	2	82.1	9	1782		206.315
8	3	95.7	9	1752	1573	1013.796
9	2	54.4	9	1959		210.137
10	3	98.4	9	1959	1269	173.178
11	2	69.1	9	1536		434.609

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	65.4	8	1539		595.784
2	2	80.5	8	1187		609.41
3	2	87.1	8	1606		54.94
4	2	78	8	1046		359.5
5	2	96.3	8	1134		245.16
6	3	87.1	8	1795	1622	94.75
7	1	62.2	8			684.43
8	3	98.5	8	1043	1482	41.61
9	2	57.2	8	1254		183.37
10	3	60.7	8	1433	1415	573.52
11	2	64	8	1073		434.25
12	1	58.5	8			213.63
13	2	94.5	8	1248		431.8
14	3	65.2	8	1810	1154	459.8
15	3	60.8	8	1454	1944	497.8
16	2	77.1	8	1050		70.6

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	84	14	1156		656.415
2	1	73	14			223.42
3	2	75.1	14	1473		85.82
4	1	53	14			890.09
5	2	62	14	1791		105.63
6	2	71.3	14	1745		170.45
7	2	76.8	14	1700		184.44
8	3	91.7	14	1934	1927	461.66
9	2	65.6	14	1904		982
10	3	89.7	14	1861	1082	669.2

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	74.1	15	1589		331.907
2	3	82.8	15	1795	1889	535.878
3	2	96.3	15	1885		430.255
4	2	96.9	15	1945		387.103
5	3	63.3	15	1305	1720	392.091
6	2	62.6	15	1118		78.098
7	1	61.9	15			448.096
8	3	57.6	15	1497	1188	237.574
9	2	82.8	15	1070		6.861
10	2	84	15	1526		324.459
11	1	71.9	15			324.996
12	1	76.7	15			693.004
13	2	50.6	15	1978		610.302
14	2	88.9	15	1258		294.509
15	3	60.2	15	1995	1359	349.047
16	1	88.9	15			257.665
17	1	86.7	15			106.082

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	68.5	14	1259	1103	675.772
2	3	75.3	14	1011	1327	218.17
3	2	53.7	14	1746		580.08
4	2	65.3	14	1543		1079.5
5	2	63.8	14	1261		634.09
6	3	95.6	14	1790	1867	883.27
7	2	54.5	14	1410		1076.05
8	3	98.9	14	1243	1956	603.05
9	1	93.2	14			815.9
10	3	90	14	1744	1994	81

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	62	9			165.742
2	1	65.2	9			113.343
3	2	91.7	9	1355		463.732
4	1	61.3	9			133.103
5	3	86.7	9	1639	1508	264.644
6	2	75.5	9	1477		324.665
7	2	82.5	9	1761		475.986
8	1	59.6	9			81.037
9	1	83.9	9			100.538
10	3	61.7	9	1491	1033	618.719
11	2	88.7	9	1657		347.831
12	2	71.6	9	1377		586.612
13	1	94.4	9			463.483
14	3	91	9	1063	1462	39.034
15	2	53.7	9	1789		513.925
16	2	87.8	9	1845		492.676
17	2	63.9	9	1357		405.337
18	2	65.7	9	1001		431.458
19	2	68.8	9	1037		13.579

Type 5 Radar Waveform_29

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	59.4	14	1445		673.867
2	2	66.9	14	1077		318.37
3	2	61	14	1961		486.76
4	2	54.5	14	1671		617.28
5	1	81	14			1111.48
6	1	87.9	14			843.33
7	2	76.4	14	1921		692.93
8	1	87.3	14			178.57
9	1	93.6	14			866.3
10	3	97.5	14	1882	1359	169.6

Radar Type 6 - Radar Statistical Performance			
Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
0	1	15	1
1	1	16	1
2	1	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	1
Detection Percentage (%)		100%	

Type 6 Radar Waveform_0				
Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.535	80	*
6	5.53	5.51	80	*
7	5.53	5.57	80	*
20	5.53	5.508	80	*
31	5.53	5.551	80	*
33	5.53	5.497	80	*
49	5.53	5.543	80	*
58	5.53	5.554	80	*
61	5.53	5.538	80	*
62	5.53	5.503	80	*
66	5.53	5.532	80	*
72	5.53	5.516	80	*
88	5.53	5.544	80	*
89	5.53	5.548	80	*
91	5.53	5.536	80	*
93	5.53	5.519	80	*
94	5.53	5.549	80	*
97	5.53	5.558	80	*
98	5.53	5.506	80	*

Type 6 Radar Waveform_1

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.53	5.516	80	*
21	5.53	5.522	80	*
22	5.53	5.49	80	*
23	5.53	5.5	80	*
25	5.53	5.525	80	*
30	5.53	5.556	80	*
31	5.53	5.552	80	*
35	5.53	5.504	80	*
37	5.53	5.497	80	*
41	5.53	5.536	80	*
43	5.53	5.508	80	*
46	5.53	5.567	80	*
55	5.53	5.503	80	*
62	5.53	5.566	80	*
76	5.53	5.514	80	*
80	5.53	5.493	80	*
86	5.53	5.495	80	*
89	5.53	5.551	80	*
97	5.53	5.54	80	*

Type 6 Radar Waveform_2

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.547	80	*
6	5.53	5.539	80	*
8	5.53	5.549	80	*
10	5.53	5.529	80	*
12	5.53	5.546	80	*
14	5.53	5.533	80	*
15	5.53	5.503	80	*
16	5.53	5.557	80	*
18	5.53	5.497	80	*
30	5.53	5.502	80	*
43	5.53	5.534	80	*
44	5.53	5.542	80	*
59	5.53	5.495	80	*
64	5.53	5.565	80	*
70	5.53	5.535	80	*
72	5.53	5.564	80	*
78	5.53	5.551	80	*
88	5.53	5.55	80	*
90	5.53	5.512	80	*
92	5.53	5.552	80	*

Type 6 Radar Waveform_3

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.53	5.496	80	*
15	5.53	5.566	80	*
27	5.53	5.551	80	*
31	5.53	5.502	80	*
32	5.53	5.495	80	*
35	5.53	5.538	80	*
41	5.53	5.544	80	*
49	5.53	5.568	80	*
50	5.53	5.569	80	*
55	5.53	5.494	80	*
77	5.53	5.511	80	*
83	5.53	5.545	80	*
88	5.53	5.491	80	*

Type 6 Radar Waveform_4

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
3	5.53	5.513	80	*
10	5.53	5.541	80	*
14	5.53	5.553	80	*
22	5.53	5.56	80	*
25	5.53	5.568	80	*
32	5.53	5.5	80	*
38	5.53	5.547	80	*
39	5.53	5.49	80	*
41	5.53	5.502	80	*
43	5.53	5.497	80	*
50	5.53	5.512	80	*
53	5.53	5.564	80	*
55	5.53	5.518	80	*
59	5.53	5.532	80	*
62	5.53	5.566	80	*
64	5.53	5.496	80	*
66	5.53	5.565	80	*
70	5.53	5.57	80	*
79	5.53	5.536	80	*
83	5.53	5.526	80	*
96	5.53	5.491	80	*

Type 6 Radar Waveform_5

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.53	5.521	80	*
9	5.53	5.506	80	*
11	5.53	5.502	80	*
17	5.53	5.497	80	*
27	5.53	5.545	80	*
28	5.53	5.514	80	*
34	5.53	5.523	80	*
37	5.53	5.568	80	*
50	5.53	5.541	80	*
54	5.53	5.539	80	*
57	5.53	5.512	80	*
58	5.53	5.559	80	*
62	5.53	5.555	80	*
64	5.53	5.565	80	*
71	5.53	5.51	80	*
74	5.53	5.494	80	*
86	5.53	5.562	80	*
88	5.53	5.57	80	*
93	5.53	5.561	80	*
96	5.53	5.508	80	*

Type 6 Radar Waveform_6

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
4	5.53	5.531	80	*
10	5.53	5.56	80	*
13	5.53	5.543	80	*
19	5.53	5.564	80	*
21	5.53	5.565	80	*
25	5.53	5.524	80	*
27	5.53	5.539	80	*
40	5.53	5.501	80	*
47	5.53	5.548	80	*
54	5.53	5.513	80	*
59	5.53	5.562	80	*
62	5.53	5.542	80	*
65	5.53	5.508	80	*
66	5.53	5.51	80	*
74	5.53	5.568	80	*
75	5.53	5.492	80	*
76	5.53	5.507	80	*
78	5.53	5.52	80	*
92	5.53	5.498	80	*
93	5.53	5.547	80	*
95	5.53	5.5	80	*

Type 6 Radar Waveform_7

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.549	80	*
22	5.53	5.492	80	*
24	5.53	5.564	80	*
26	5.53	5.545	80	*
27	5.53	5.537	80	*
31	5.53	5.511	80	*
35	5.53	5.539	80	*
38	5.53	5.563	80	*
52	5.53	5.521	80	*
62	5.53	5.524	80	*
64	5.53	5.517	80	*
65	5.53	5.57	80	*
66	5.53	5.527	80	*
70	5.53	5.561	80	*
72	5.53	5.536	80	*
73	5.53	5.526	80	*
75	5.53	5.497	80	*
92	5.53	5.566	80	*
96	5.53	5.542	80	*
98	5.53	5.49	80	*
100	5.53	5.544	80	*

Type 6 Radar Waveform_8

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
28	5.53	5.517	80	*
29	5.53	5.506	80	*
53	5.53	5.523	80	*
60	5.53	5.55	80	*
70	5.53	5.539	80	*
71	5.53	5.554	80	*
75	5.53	5.528	80	*
79	5.53	5.566	80	*
86	5.53	5.565	80	*
94	5.53	5.564	80	*

Type 6 Radar Waveform_9

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
3	5.53	5.537	80	*
12	5.53	5.57	80	*
19	5.53	5.491	80	*
22	5.53	5.54	80	*
25	5.53	5.553	80	*
35	5.53	5.544	80	*
41	5.53	5.567	80	*
42	5.53	5.539	80	*
46	5.53	5.552	80	*
49	5.53	5.506	80	*
51	5.53	5.52	80	*
66	5.53	5.545	80	*
67	5.53	5.513	80	*
69	5.53	5.49	80	*
75	5.53	5.508	80	*
86	5.53	5.525	80	*

Type 6 Radar Waveform_10

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
11	5.53	5.526	80	*
13	5.53	5.515	80	*
14	5.53	5.569	80	*
16	5.53	5.547	80	*
24	5.53	5.495	80	*
27	5.53	5.503	80	*
32	5.53	5.538	80	*
40	5.53	5.557	80	*
43	5.53	5.504	80	*
48	5.53	5.562	80	*
60	5.53	5.496	80	*
63	5.53	5.524	80	*
65	5.53	5.519	80	*
68	5.53	5.539	80	*
70	5.53	5.532	80	*
77	5.53	5.544	80	*
78	5.53	5.535	80	*
86	5.53	5.567	80	*
95	5.53	5.543	80	*
97	5.53	5.553	80	*

Type 6 Radar Waveform_11

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
8	5.53	5.525	80	*
25	5.53	5.527	80	*
27	5.53	5.502	80	*
35	5.53	5.553	80	*
41	5.53	5.569	80	*
44	5.53	5.539	80	*
49	5.53	5.523	80	*
51	5.53	5.505	80	*
53	5.53	5.532	80	*
56	5.53	5.545	80	*
58	5.53	5.567	80	*
79	5.53	5.493	80	*
82	5.53	5.513	80	*
98	5.53	5.498	80	*

Type 6 Radar Waveform_12

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.492	80	*
17	5.53	5.541	80	*
29	5.53	5.549	80	*
35	5.53	5.546	80	*
38	5.53	5.527	80	*
39	5.53	5.556	80	*
50	5.53	5.552	80	*
54	5.53	5.501	80	*
62	5.53	5.495	80	*
71	5.53	5.537	80	*
97	5.53	5.514	80	*
98	5.53	5.522	80	*

Type 6 Radar Waveform_13

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
14	5.53	5.565	80	*
23	5.53	5.5	80	*
26	5.53	5.494	80	*
27	5.53	5.55	80	*
30	5.53	5.54	80	*
31	5.53	5.527	80	*
41	5.53	5.564	80	*
49	5.53	5.521	80	*
64	5.53	5.498	80	*
67	5.53	5.524	80	*
74	5.53	5.566	80	*
78	5.53	5.515	80	*
80	5.53	5.512	80	*
82	5.53	5.542	80	*
89	5.53	5.533	80	*
97	5.53	5.558	80	*

Type 6 Radar Waveform_14

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
31	5.53	5.504	80	*
33	5.53	5.541	80	*
58	5.53	5.506	80	*
61	5.53	5.54	80	*
63	5.53	5.545	80	*
64	5.53	5.538	80	*
65	5.53	5.512	80	*
66	5.53	5.527	80	*
69	5.53	5.49	80	*
75	5.53	5.493	80	*
78	5.53	5.503	80	*
87	5.53	5.532	80	*
89	5.53	5.496	80	*
90	5.53	5.528	80	*
93	5.53	5.516	80	*

Type 6 Radar Waveform_15

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.53	5.534	80	*
2	5.53	5.54	80	*
10	5.53	5.499	80	*
33	5.53	5.505	80	*
48	5.53	5.533	80	*
51	5.53	5.558	80	*
53	5.53	5.531	80	*
54	5.53	5.506	80	*
63	5.53	5.515	80	*
79	5.53	5.508	80	*
86	5.53	5.507	80	*
93	5.53	5.521	80	*
94	5.53	5.501	80	*
96	5.53	5.547	80	*
97	5.53	5.529	80	*

Type 6 Radar Waveform_16

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
13	5.53	5.566	80	*
19	5.53	5.519	80	*
25	5.53	5.524	80	*
27	5.53	5.543	80	*
35	5.53	5.539	80	*
40	5.53	5.557	80	*
54	5.53	5.555	80	*
58	5.53	5.56	80	*
61	5.53	5.528	80	*
64	5.53	5.546	80	*
68	5.53	5.507	80	*
88	5.53	5.57	80	*
94	5.53	5.508	80	*
96	5.53	5.541	80	*
98	5.53	5.506	80	*

Type 6 Radar Waveform_17

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
4	5.53	5.495	80	*
8	5.53	5.492	80	*
11	5.53	5.54	80	*
14	5.53	5.56	80	*
22	5.53	5.513	80	*
23	5.53	5.529	80	*
30	5.53	5.53	80	*
35	5.53	5.554	80	*
48	5.53	5.541	80	*
64	5.53	5.537	80	*
66	5.53	5.516	80	*
70	5.53	5.511	80	*
71	5.53	5.503	80	*
85	5.53	5.564	80	*
91	5.53	5.509	80	*
92	5.53	5.547	80	*
96	5.53	5.561	80	*

Type 6 Radar Waveform_18

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
10	5.53	5.523	80	*
14	5.53	5.552	80	*
15	5.53	5.499	80	*
28	5.53	5.565	80	*
30	5.53	5.556	80	*
36	5.53	5.547	80	*
39	5.53	5.524	80	*
47	5.53	5.543	80	*
52	5.53	5.505	80	*
57	5.53	5.553	80	*
60	5.53	5.504	80	*
64	5.53	5.536	80	*
67	5.53	5.567	80	*
74	5.53	5.502	80	*
77	5.53	5.527	80	*
93	5.53	5.493	80	*

Type 6 Radar Waveform_19

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.53	5.555	80	*
2	5.53	5.549	80	*
9	5.53	5.512	80	*
20	5.53	5.553	80	*
26	5.53	5.534	80	*
27	5.53	5.517	80	*
29	5.53	5.527	80	*
59	5.53	5.557	80	*
68	5.53	5.49	80	*
72	5.53	5.55	80	*
77	5.53	5.521	80	*
78	5.53	5.569	80	*
79	5.53	5.523	80	*
93	5.53	5.503	80	*
94	5.53	5.505	80	*
95	5.53	5.537	80	*

Type 6 Radar Waveform_20

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.514	80	*
12	5.53	5.5	80	*
17	5.53	5.57	80	*
24	5.53	5.519	80	*
25	5.53	5.563	80	*
26	5.53	5.494	80	*
27	5.53	5.504	80	*
30	5.53	5.548	80	*
32	5.53	5.545	80	*
43	5.53	5.526	80	*
47	5.53	5.534	80	*
56	5.53	5.553	80	*
62	5.53	5.56	80	*
69	5.53	5.49	80	*
78	5.53	5.568	80	*
83	5.53	5.549	80	*
95	5.53	5.523	80	*
96	5.53	5.53	80	*
97	5.53	5.517	80	*
98	5.53	5.567	80	*

Type 6 Radar Waveform_21

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
19	5.53	5.562	80	*
23	5.53	5.498	80	*
38	5.53	5.552	80	*
53	5.53	5.521	80	*
61	5.53	5.56	80	*
69	5.53	5.543	80	*
71	5.53	5.505	80	*
74	5.53	5.528	80	*
85	5.53	5.51	80	*
93	5.53	5.515	80	*
95	5.53	5.546	80	*
97	5.53	5.509	80	*

Type 6 Radar Waveform_22

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
8	5.53	5.547	80	*
9	5.53	5.546	80	*
21	5.53	5.559	80	*
26	5.53	5.506	80	*
35	5.53	5.535	80	*
36	5.53	5.555	80	*
44	5.53	5.504	80	*
45	5.53	5.567	80	*
46	5.53	5.52	80	*
47	5.53	5.531	80	*
49	5.53	5.56	80	*
66	5.53	5.556	80	*
93	5.53	5.57	80	*
100	5.53	5.494	80	*

Type 6 Radar Waveform_23

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
8	5.53	5.537	80	*
13	5.53	5.515	80	*
16	5.53	5.546	80	*
21	5.53	5.524	80	*
27	5.53	5.558	80	*
30	5.53	5.514	80	*
34	5.53	5.505	80	*
37	5.53	5.532	80	*
53	5.53	5.512	80	*
54	5.53	5.557	80	*
55	5.53	5.521	80	*
56	5.53	5.555	80	*
60	5.53	5.535	80	*
68	5.53	5.51	80	*
72	5.53	5.495	80	*
75	5.53	5.504	80	*
91	5.53	5.553	80	*
98	5.53	5.497	80	*

Type 6 Radar Waveform_24

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
17	5.53	5.511	80	*
18	5.53	5.548	80	*
22	5.53	5.532	80	*
38	5.53	5.54	80	*
39	5.53	5.559	80	*
41	5.53	5.564	80	*
53	5.53	5.499	80	*
54	5.53	5.512	80	*
59	5.53	5.502	80	*
72	5.53	5.561	80	*
89	5.53	5.516	80	*
90	5.53	5.492	80	*
91	5.53	5.57	80	*
93	5.53	5.525	80	*
95	5.53	5.517	80	*
97	5.53	5.529	80	*

Type 6 Radar Waveform_25

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
14	5.53	5.566	80	*
20	5.53	5.529	80	*
21	5.53	5.518	80	*
24	5.53	5.517	80	*
31	5.53	5.519	80	*
41	5.53	5.568	80	*
45	5.53	5.563	80	*
54	5.53	5.506	80	*
55	5.53	5.511	80	*
62	5.53	5.509	80	*
76	5.53	5.554	80	*
77	5.53	5.553	80	*
88	5.53	5.552	80	*
92	5.53	5.535	80	*
95	5.53	5.548	80	*
96	5.53	5.532	80	*
98	5.53	5.498	80	*

Type 6 Radar Waveform_26

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.55	80	*
7	5.53	5.543	80	*
11	5.53	5.544	80	*
13	5.53	5.538	80	*
17	5.53	5.498	80	*
21	5.53	5.525	80	*
28	5.53	5.542	80	*
29	5.53	5.565	80	*
33	5.53	5.532	80	*
38	5.53	5.502	80	*
39	5.53	5.56	80	*
40	5.53	5.522	80	*
48	5.53	5.513	80	*
53	5.53	5.521	80	*
62	5.53	5.545	80	*
67	5.53	5.508	80	*
82	5.53	5.568	80	*
85	5.53	5.518	80	*
86	5.53	5.563	80	*
89	5.53	5.557	80	*
91	5.53	5.546	80	*
97	5.53	5.554	80	*
98	5.53	5.547	80	*

Type 6 Radar Waveform_27

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
12	5.53	5.506	80	*
17	5.53	5.512	80	*
32	5.53	5.544	80	*
33	5.53	5.502	80	*
35	5.53	5.537	80	*
36	5.53	5.57	80	*
38	5.53	5.509	80	*
39	5.53	5.555	80	*
49	5.53	5.515	80	*
59	5.53	5.538	80	*
64	5.53	5.545	80	*
66	5.53	5.562	80	*
85	5.53	5.554	80	*
90	5.53	5.56	80	*

Type 6 Radar Waveform_28

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
3	5.53	5.54	80	*
6	5.53	5.525	80	*
16	5.53	5.544	80	*
21	5.53	5.501	80	*
23	5.53	5.514	80	*
24	5.53	5.531	80	*
31	5.53	5.511	80	*
38	5.53	5.562	80	*
39	5.53	5.546	80	*
43	5.53	5.555	80	*
44	5.53	5.553	80	*
48	5.53	5.542	80	*
54	5.53	5.507	80	*
57	5.53	5.499	80	*
75	5.53	5.55	80	*
89	5.53	5.569	80	*
91	5.53	5.549	80	*
94	5.53	5.513	80	*

Type 6 Radar Waveform_29

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
3	5.53	5.516	80	*
15	5.53	5.562	80	*
18	5.53	5.556	80	*
27	5.53	5.557	80	*
29	5.53	5.509	80	*
47	5.53	5.539	80	*
59	5.53	5.543	80	*
64	5.53	5.529	80	*
65	5.53	5.526	80	*
79	5.53	5.552	80	*
86	5.53	5.514	80	*
88	5.53	5.555	80	*
92	5.53	5.518	80	*
100	5.53	5.522	80	*



Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2021/09/29~2021/09/30		
Test Item	Radar Statistical Performance Check (802.11ac-VHT80 – 5530MHz)		
Test Mode	Mode 2 (Mesh Mode)		

Radar Type 1-4 - Radar Statistical Performance								
Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect
0	5491	1	5491	0	5491	1	5491	1
1	5543	1	5538	1	5563	1	5551	1
2	5548	1	5494	0	5492	1	5549	1
3	5542	1	5494	1	5508	1	5492	1
4	5568	1	5528	1	5536	1	5522	1
5	5499	1	5558	1	5544	1	5513	1
6	5501	1	5530	1	5539	0	5547	1
7	5540	1	5520	1	5562	1	5530	0
8	5505	1	5516	1	5544	1	5524	1
9	5543	1	5511	1	5530	0	5533	1
10	5518	1	5493	1	5545	1	5536	1
11	5556	1	5564	1	5565	1	5538	1
12	5534	1	5542	1	5549	1	5567	1
13	5519	1	5539	0	5530	1	5524	1
14	5530	1	5514	0	5504	1	5539	1
15	5516	1	5558	0	5512	1	5531	0
16	5511	1	5504	1	5535	1	5545	0
17	5526	1	5556	1	5526	1	5526	1
18	5532	1	5534	1	5524	1	5534	1
19	5531	1	5512	1	5501	1	5556	1
20	5496	1	5498	1	5543	0	5535	1
21	5519	1	5562	1	5507	1	5541	1
22	5540	1	5560	0	5556	1	5554	1
23	5562	0	5542	1	5563	1	5523	0
24	5512	1	5533	1	5537	1	5505	1
25	5555	1	5491	1	5548	1	5502	1
26	5497	1	5511	0	5563	1	5499	0
27	5506	1	5534	1	5549	1	5522	1

Trial	Radar Type 1		Radar Type 2		Radar Type 3		Radar Type 4	
	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect	Frequency (MHz)	1=detect 0=no detect
28	5514	1	5528	0	5523	1	5521	0
29	5569	1	5569	1	5569	1	5569	1
Probability:	96.7%		73.3%		90.0%		80.0%	
Aggregate:	$\frac{P_{d1}+P_{d2}+P_{d3}+P_{d4}}{4} = (96.7\% + 73.3\% + 90.0\% + 80.0\%) = \mathbf{85.0\%} (>80\%)$							

Radar Type 1 - Radar Waveform				Radar Type 2 - Radar Waveform			
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)
1	72	1	738	1	27	4.5	209
2	68	1	778	2	27	3.6	158
3	95	1	558	3	26	4.4	197
4	65	1	818	4	23	1.3	164
5	57	1	938	5	25	2	210
6	78	1	678	6	24	3.3	173
7	98	1	538	7	28	3.5	154
8	89	1	598	8	23	1.2	200
9	92	1	578	9	23	4.9	161
10	81	1	658	10	25	2.4	223
11	102	1	518	11	27	1.2	211
12	18	1	3066	12	24	1.6	228
13	83	1	638	13	25	1.6	156
14	86	1	618	14	26	3.6	217
15	62	1	858	15	24	1.7	195
16	20	1	2749	16	28	4.9	180
17	26	1	2071	17	24	1.9	180
18	19	1	2845	18	26	4.7	227
19	18	1	2972	19	25	2.8	214
20	32	1	1660	20	27	4.6	197
21	33	1	1630	21	29	2.2	180
22	41	1	1314	22	26	4	160
23	25	1	2114	23	26	4.6	195
24	34	1	1552	24	24	2	180
25	20	1	2678	25	27	3.6	182
26	25	1	2134	26	28	1.7	165
27	28	1	1950	27	28	3.7	213
28	53	1	1005	28	28	4	150
29	26	1	2038	29	29	4.4	216
30	79	1	670	30	25	2.5	202

Radar Type 3 - Radar Waveform				Radar Type 4 - Radar Waveform			
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)
1	17	9.8	287	1	16	16.9	429
2	18	9.8	222	2	14	18.5	200
3	17	8	462	3	16	12.6	337
4	17	6	461	4	13	19.5	334
5	17	6.9	224	5	15	11.4	328
6	17	7.2	468	6	13	15.8	284
7	16	8.2	445	7	13	13.9	322
8	16	10	283	8	12	16	300
9	18	7.3	406	9	16	19.4	375
10	17	6.1	485	10	15	13.5	236
11	16	6	447	11	15	14.2	439
12	17	7.8	273	12	15	14.2	300
13	16	6.5	383	13	14	14.8	360
14	18	6.3	273	14	12	15.8	355
15	18	10	203	15	13	13.5	265
16	16	9.4	383	16	15	14.9	249
17	17	6.9	282	17	15	14	388
18	17	8.4	455	18	14	14	461
19	16	8.5	220	19	15	13.8	418
20	17	7.8	218	20	14	14.7	299
21	16	7.9	322	21	16	11.5	227
22	17	6	238	22	13	11.3	390
23	17	6.3	400	23	14	11.4	453
24	18	6.2	410	24	12	12.8	477
25	18	7.7	453	25	14	11.2	340
26	16	8.5	346	26	14	19	385
27	17	8.1	397	27	13	13.1	223
28	16	6.8	286	28	12	17	377
29	17	8.9	311	29	16	14.4	490
30	17	7.6	291	30	13	16.2	232

Radar Type 5 - Radar Statistical Performance					
Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
0	5530	1	15	5495.4	1
1	5530	1	16	5495.4	1
2	5530	1	17	5493	1
3	5530	1	18	5497.4	1
4	5530	1	19	5499	1
5	5530	1	20	5566.2	1
6	5530	1	21	5563	1
7	5530	1	22	5561.4	1
8	5530	1	23	5561	1
9	5530	1	24	5561.8	1
10	5494.6	1	25	5564.6	1
11	5496.6	0	26	5567	1
12	5493.4	1	27	5561	1
13	5499	1	28	5563.4	1
14	5494.2	1	29	5566.6	1
Detection Percentage (%)			96.7%		

Type 5 Radar Waveform_0						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	51.8	18	1103		577.155
2	3	80	18	1825	1070	161.808
3	3	98.4	18	1400	1152	7.58
4	2	64.6	18	1106		154.19
5	3	89.8	18	1466	1527	520.31
6	2	80.2	18	1514		172.21
7	3	53.5	18	1260	1230	410.45
8	1	92.2	18			444.24
9	2	87.9	18	1176		476.91
10	2	52.5	18	1400		545
11	1	55	18			7.19
12	2	62.6	18	1023		536.5
13	1	73.8	18			424.7
14	2	74.6	18	1908		8.57
15	3	52.7	18	1143	1045	157.31
16	3	96.8	18	1985	1971	140.82
17	2	97.4	18	1674		296.06
18	2	71.9	18	1180		159.2
19	3	73.5	18	1720	1644	351.2
20	2	64.4	18	1412		451.6

Type 5 Radar Waveform_1

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	76.3	15	1626		619.583
2	2	88	15	1294		745.14
3	2	97.6	15	1840		187
4	1	53.3	15			640.08
5	3	71.6	15	1851	1437	777.51
6	1	66.4	15			706.26
7	3	97.6	15	1616	1450	134.63
8	2	94.3	15	1533		473.2
9	1	69.9	15			106.64
10	2	70.7	15	1926		586.31
11	1	55.2	15			146.29
12	2	63.2	15	1897		555.03
13	1	53.1	15			463.6
14	2	78.3	15	1404		762.4
15	2	77.2	15	1722		481.5

Type 5 Radar Waveform_2

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	82.6	7	1890		601.592
2	2	95.6	7	1017		19.437
3	1	60.2	7			743.733
4	2	97.4	7	1367		1051.05
5	1	78.4	7			942.757
6	1	89.6	7			21.593
7	2	74	7	1725		334.11
8	2	83.1	7	1229		646.087
9	3	71.9	7	1269	1541	557.733

Type 5 Radar Waveform_3

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	95.9	19	1148	1318	551.819
2	2	64.3	19	1231		647.47
3	1	94.2	19			221.82
4	1	91.7	19			595.57
5	1	87.7	19			230.92
6	2	91	19	1473		118.04
7	2	71.9	19	1962		606.45
8	1	69	19			402.88
9	1	54.5	19			641.67
10	1	69.2	19			707.53
11	1	61	19			221.43
12	2	62.2	19	1724		480.23
13	1	59.6	19			31.73
14	3	68.7	19	1745	1460	177.28
15	1	73.4	19			298.1
16	2	93.6	19	1625		345.4

Type 5 Radar Waveform_4

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	82.9	10	1443	1150	300.694
2	1	80.8	10			341.038
3	2	64.9	10	1839		585.675
4	3	89	10	1427	1388	198.043
5	2	61.2	10	1427		396.711
6	2	58.4	10	1119		144.848
7	3	74.5	10	1438	1239	358.956
8	2	92	10	1016		98.454
9	2	68.2	10	1631		650.621
10	1	78.4	10			433.879
11	2	69.6	10	1120		662.996
12	1	53.1	10			117.034
13	3	80.5	10	1816	1596	66.992
14	3	66.3	10	1760	1719	184.079
15	1	98.4	10			48.357
16	3	52.2	10	1783	1247	591.165
17	1	94.6	10			606.982

Type 5 Radar Waveform_5

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	67.5	13	1104	1741	938.046
2	2	52.9	13	1534		939.46
3	1	54.7	13			401.23
4	3	60.2	13	1829	1750	617.9
5	2	77.2	13	1939		1430.78
6	3	91.3	13	1061	1354	437.88
7	2	51.8	13	1282		1296.8
8	3	77.9	13	1952	1472	164.7

Type 5 Radar Waveform_6

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	55.9	20	1838		31.246
2	2	77.3	20	1185		145.666
3	3	56.7	20	1520	1289	104.85
4	3	96	20	1118	1467	356.51
5	2	63.3	20	1169		180.39
6	3	77.3	20	1838	1642	268.07
7	2	83.8	20	1681		73.47
8	1	58.6	20			184.01
9	3	61.2	20	1549	1859	519.15
10	3	81.1	20	1400	1753	708.98
11	1	58.5	20			101.25
12	2	59.9	20	1825		604.24
13	2	74	20	1513		476.51
14	2	61.2	20	1534		644.6
15	2	85.5	20	1463		329.1
16	2	65.3	20	1334		545.5

Type 5 Radar Waveform_7

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	68.8	9	1350	1904	414.671
2	2	91.8	9	1437		510.5
3	2	61	9	1492		790.52
4	2	91.6	9	1914		130.35
5	1	67.4	9			948.07
6	3	85.1	9	1290	1590	346.45
7	2	63.6	9	1610		343.52
8	2	99.7	9	1647		911.36
9	1	79.7	9			921.19
10	3	78.1	9	1206	1897	890.64
11	2	51.9	9	1032		964.7
12	2	76	9	1495		952.9

Type 5 Radar Waveform_8

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	89.8	11	1988		790.881
2	1	53.6	11			628.957
3	2	83.8	11	1754		784.064
4	2	90.2	11	1423		496.491
5	1	92.3	11			80.639
6	2	82.2	11	1479		499.556
7	2	97	11	1427		198.053
8	3	76.1	11	1066	1591	769.01
9	2	82	11	1179		284.797
10	2	63.9	11	1343		21.084
11	1	58.4	11			622.801
12	1	72.4	11			377.899
13	3	85.4	11	1471	1354	109.386
14	2	68.7	11	1240		138.243

Type 5 Radar Waveform_9

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	54.8	17	1109	1314	39.35
2	2	52	17	1980		481.311
3	2	54.5	17	1905		366.942
4	1	52.9	17			35.993
5	1	88.2	17			850.844
6	1	82.4	17			741.515
7	2	69	17	1098		215.575
8	1	55.7	17			490.986
9	1	87.9	17			690.867
10	2	86.4	17	1701		684.618
11	2	63.3	17	1055		270.809

Type 5 Radar Waveform_10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	92.7	9	1442	1250	774.609
2	2	62.2	9	1221		778.76
3	3	73.6	9	1722	1113	208.09
4	3	89.8	9	1969	1832	867.18
5	2	99	9	1463		887
6	1	82.2	9			33.86
7	2	75.6	9	1542		500.26
8	1	57.3	9			577.07
9	2	61.2	9	1442		755.01
10	3	69.7	9	1554	1817	988.07
11	2	93.7	9	1303		240.8
12	2	61.2	9	1503		356.3

Type 5 Radar Waveform_11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	83.1	14	1471		499.476
2	2	56.9	14	1508		808.491
3	2	63.3	14	1545		811.452
4	2	81.2	14	1145		487.533
5	1	53.5	14			895.894
6	1	68.1	14			717.545
7	1	65.2	14			739.905
8	2	59.9	14	1849		1010.266
9	1	71.9	14			132.157
10	3	86.2	14	1721	1133	871.218
11	2	79.4	14	1077		822.809

Type 5 Radar Waveform_12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	97.6	6	1475	1260	77.319
2	2	53.6	6	1711		115.692
3	2	99.7	6	1135		514.857
4	2	96.7	6	1549		174.03
5	1	87.5	6			43.303
6	2	57.9	6	1923		362.327
7	1	99.4	6			513.94
8	3	59.6	6	1234	1200	521.283
9	3	86	6	1064	1397	352.497
10	2	62.4	6	1674		516.95
11	1	98.6	6			168.873
12	2	78.2	6	1082		450.937
13	2	70.8	6	1284		498.18
14	2	61.8	6	1349		184.093
15	2	79.8	6	1895		32.417
16	1	99.6	6			494.3
17	3	55.1	6	1675	1386	26.033
18	2	68.6	6	1811		367.667

Type 5 Radar Waveform_13

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	56.4	20			471.722
2	2	51.5	20	1583		366.16
3	1	71.4	20			198.95
4	2	77.5	20	1605		90.73
5	2	64.3	20	1020		657.68
6	3	55.5	20	1174	1181	298.45
7	2	94.8	20	1279		38.45
8	3	80.6	20	1372	1929	291.77
9	3	67.3	20	1873	1887	394.88
10	3	95.7	20	1625	1758	192.09
11	2	69.6	20	1524		156.48
12	3	64.7	20	1255	1535	222.87
13	2	91.8	20	1649		318.05
14	1	55.4	20			640.8
15	1	99.2	20			14.2
16	2	67.7	20	1940		242.4

Type 5 Radar Waveform_14

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	66.7	8	1557		111.433
2	3	59.2	8	1886	1344	942.657
3	3	59.1	8	1887	1660	278.413
4	2	85.9	8	1379		933.53
5	2	99.8	8	1578		1129.507
6	2	68	8	1944		1052.773
7	2	89.2	8	1966		1300.87
8	3	80.4	8	1222	1378	17.357
9	2	83.1	8	1140		869.733

Type 5 Radar Waveform_15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	57.2	11	1008	1178	840.064
2	2	84.7	11	1416		226.96
3	2	55.8	11	1565		182.82
4	1	55.6	11			982.09
5	3	76.6	11	1203	1074	937.57
6	1	92.9	11			280.99
7	2	89.1	11	1987		838.52
8	3	75.6	11	1552	1525	272.31
9	1	76.4	11			965.69
10	2	94.4	11	1245		659.46
11	2	88.3	11	1320		311.7
12	3	59	11	1595	1372	892.3

Type 5 Radar Waveform_16

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	61.5	11	1992		390.898
2	2	52.2	11	1184		216.47
3	3	95.6	11	1967	1368	322.9
4	2	78	11	1676		601.97
5	3	80.9	11	1467	1080	521.19
6	2	57.9	11	1934		212.95
7	3	82.4	11	1302	1898	678.91
8	2	72.2	11	1465		196.91
9	3	57.1	11	1818	1671	777.53
10	2	60.7	11	1515		706.64
11	3	95.3	11	1945	1708	58.56
12	2	59.8	11	1171		360.06
13	2	79.7	11	1779		583.9
14	2	80.6	11	1081		666.5
15	2	97.1	11	1481		222

Type 5 Radar Waveform_17

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	53.6	5	1439	1665	931.911
2	3	84.8	5	1750	1794	1251.64
3	1	87.5	5			153.9
4	3	62.5	5	1597	1457	34.99
5	2	52.3	5	1411		527.98
6	2	62.5	5	1853		114.87
7	3	56.6	5	1198	1486	210.68
8	3	88	5	1435	1584	1107.2

Type 5 Radar Waveform_18

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	71.7	16	1101		84.317
2	2	72.3	16	1231		614.4
3	3	81	16	1555	1745	576.32
4	1	64.1	16			251.39
5	2	80.9	16	1138		602.88
6	1	67.3	16			322.16
7	1	99.6	16			693.03
8	3	93.3	16	1410	1551	592.1
9	3	92.7	16	1568	1462	333.64
10	2	57.5	16	1199		463.28
11	2	79.3	16	1308		646.1
12	1	89.8	16			405.7

Type 5 Radar Waveform_19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	58.4	20	1854	1476	356.892
2	1	86.8	20			392.74
3	1	82.7	20			195.1
4	3	85.7	20	1542	1620	441.77
5	2	64.8	20	1662		507.27
6	1	88	20			133.21
7	3	84.4	20	1616	1423	376.08
8	2	74.8	20	1424		456.51
9	1	72.3	20			171.09
10	2	54.1	20	1955		248.4
11	2	63.9	20	1648		362.52
12	2	79.4	20	1509		249.17
13	2	67	20	1979		60.31
14	2	65.2	20	1423		91.6
15	2	58.2	20	1736		256.71
16	2	88.4	20	1675		554.39
17	1	64.8	20			366.45
18	1	56.6	20			577.2
19	2	76.7	20	1881		370.4
20	3	51.8	20	1119	1859	357.1

Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	51	7	1882		606.874
2	2	54.3	7	1865		886.851
3	1	63	7			1057.182
4	2	96.1	7	1328		106.643
5	2	88.5	7	1410		1023.484
6	3	61.4	7	1442	1486	835.675
7	1	86.7	7			360.975
8	2	96.7	7	1042		380.666
9	3	93.6	7	1112	1269	743.307
10	1	93.1	7			1041.718
11	3	51.1	7	1787	1763	569.109

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	60.4	15			458.017
2	3	59.4	15	1696	1281	567.74
3	3	97.9	15	1030	1281	256.14
4	2	54.8	15	1471		684.64
5	2	84.6	15	1048		384.92
6	2	57.3	15	1849		784.43
7	2	54.6	15	1201		510.72
8	1	61.2	15			498.11
9	2	86.2	15	1856		715.68
10	1	96.6	15			177
11	3	83.8	15	1198	1311	354.12
12	1	68.3	15			185.81
13	2	81.6	15	1988		745.6
14	1	84	15			32.3
15	3	51.8	15	1739	1188	455.6

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	80.6	19	1575	1566	308.44
2	1	94.7	19			131.29
3	2	94.9	19	1557		501.18
4	2	54.1	19	1227		22.39
5	3	80.4	19	1919	1576	922.91
6	3	56.2	19	1073	1582	859.42
7	2	65.2	19	1366		404.83
8	3	56.5	19	1937	1325	907.55
9	2	78.4	19	1620		896
10	2	65	19	1587		585.6

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	96.8	20	1628		471.599
2	2	68.1	20	1205		14.583
3	2	64.2	20	1485		595.605
4	3	59.1	20	1134	1334	343.103
5	2	73.8	20	1251		171.151
6	2	66.4	20	1697		660.178
7	3	73.3	20	1770	1262	321.536
8	1	74.9	20			380.444
9	1	56.5	20			571.431
10	2	98.5	20	1905		384.829
11	2	84.1	20	1908		210.066
12	2	79.8	20	1250		603.874
13	3	79	20	1873	1559	552.762
14	1	65.4	20			687.329
15	2	79.8	20	1524		650.947
16	2	95.7	20	1945		637.965
17	3	97.6	20	1379	1202	261.782

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	78.3	18			838.719
2	2	62.8	18	1603		710.217
3	2	51.8	18	1792		447.814
4	3	57.9	18	1363	1502	419.541
5	2	53	18	1892		35.379
6	2	89.1	18	1337		182.646
7	3	67.4	18	1584	1985	35.293
8	2	94.8	18	1621		611.52
9	3	84.2	18	1269	1242	835.387
10	2	62.5	18	1185		619.804
11	3	57.7	18	1598	1109	655.561
12	2	51.9	18	1805		741.829
13	2	70.6	18	1734		662.486
14	2	62.2	18	1683		848.843

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	68.3	11	1698		186.511
2	2	58	11	1995		452.641
3	3	70.1	11	1502	1405	207.492
4	2	93.7	11	1385		164.703
5	3	99.6	11	1567	1149	332.794
6	1	76.6	11			524.725
7	3	69.4	11	1353	1939	166.556
8	1	66.3	11			392.057
9	3	81.8	11	1327	1776	158.988
10	2	71.8	11	1961		615.109
11	1	69	11			101.051
12	2	90	11	1608		294.562
13	2	85.9	11	1590		90.843
14	2	92.6	11	1672		374.244
15	2	86.1	11	1591		79.235
16	2	93.9	11	1064		472.416
17	2	59.1	11	1805		348.837
18	2	79.2	11	1516		314.458
19	2	74.6	11	1897		168.279

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	65.1	5	1374		1003.59
2	2	61.4	5	1224		918.317
3	1	57.6	5			1204.953
4	2	87.3	5	1948		1201.56
5	1	53.2	5			1051.347
6	2	58.6	5	1467		1058.193
7	1	96.2	5			1322.68
8	1	72.4	5			598.997
9	2	79.7	5	1410		243.833

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	90.2	20			71.534
2	2	80.8	20	1956		159.825
3	1	81.4	20			531.88
4	3	75.7	20	1737	1577	175.07
5	2	52.4	20	1963		244.56
6	2	63	20	1778		44.62
7	2	82.5	20	1176		320.51
8	2	75.3	20	1539		105.92
9	2	61.2	20	1645		239.29
10	2	81	20	1072		293.32
11	3	71.8	20	1990	1053	334.68
12	2	90.7	20	1333		124.06
13	1	93.5	20			358.38
14	2	86.1	20	1739		556.43
15	2	81.3	20	1518		307.51
16	1	57.7	20			2.74
17	2	99.4	20	1705		534.9
18	1	55.6	20			434.9
19	2	70.8	20	1057		166.6
20	2	57.4	20	1300		476.8

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	75.8	14			315.129
2	3	74.3	14	1455	1865	640.037
3	2	97.1	14	1595		1083.473
4	1	62.2	14			1282.39
5	1	97	14			1271.887
6	2	71.9	14	1033		461.733
7	2	64.8	14	1898		970.72
8	2	75.4	14	1472		304.947
9	2	68.6	14	1521		73.933

Type 5 Radar Waveform_29

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	50.7	6	1700		654.369
2	2	77.1	6	1848		688.77
3	3	63.9	6	1057	1599	137.56
4	1	50.2	6			233.46
5	2	94.3	6	1294		356.17
6	2	94.6	6	1144		463.68
7	3	75.3	6	1551	1838	143.02
8	1	50.8	6			153.35
9	2	78	6	1433		410.6
10	3	89	6	1008	1982	450.53
11	2	63.8	6	1855		659.69
12	3	76.2	6	1363	1324	631.88
13	1	57.3	6			168.8
14	1	79.8	6			458.2
15	2	92.7	6	1960		471.9
16	2	60.1	6	1305		219.6

Radar Type 6 - Radar Statistical Performance			
Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
0	1	15	1
1	1	16	1
2	1	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	1
Detection Percentage (%)		100%	

Type 6 Radar Waveform_0				
Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.53	5.518	80	*
7	5.53	5.491	80	*
10	5.53	5.494	80	*
16	5.53	5.567	80	*
21	5.53	5.546	80	*
32	5.53	5.495	80	*
35	5.53	5.513	80	*
36	5.53	5.503	80	*
42	5.53	5.507	80	*
54	5.53	5.528	80	*
61	5.53	5.564	80	*
62	5.53	5.509	80	*
73	5.53	5.519	80	*
77	5.53	5.53	80	*
81	5.53	5.525	80	*
82	5.53	5.536	80	*
93	5.53	5.522	80	*
99	5.53	5.51	80	*

Type 6 Radar Waveform_1

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.5	80	*
11	5.53	5.544	80	*
16	5.53	5.511	80	*
18	5.53	5.567	80	*
22	5.53	5.537	80	*
32	5.53	5.543	80	*
33	5.53	5.509	80	*
38	5.53	5.524	80	*
42	5.53	5.554	80	*
60	5.53	5.508	80	*
66	5.53	5.53	80	*
69	5.53	5.532	80	*
73	5.53	5.555	80	*
74	5.53	5.525	80	*
78	5.53	5.535	80	*
85	5.53	5.557	80	*
89	5.53	5.552	80	*
90	5.53	5.547	80	*
99	5.53	5.556	80	*

Type 6 Radar Waveform_2

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.512	80	*
4	5.53	5.518	80	*
6	5.53	5.504	80	*
18	5.53	5.499	80	*
21	5.53	5.555	80	*
29	5.53	5.551	80	*
36	5.53	5.519	80	*
43	5.53	5.51	80	*
50	5.53	5.544	80	*
51	5.53	5.538	80	*
52	5.53	5.563	80	*
54	5.53	5.543	80	*
61	5.53	5.553	80	*
66	5.53	5.505	80	*
68	5.53	5.508	80	*
70	5.53	5.491	80	*
75	5.53	5.57	80	*
81	5.53	5.53	80	*
82	5.53	5.541	80	*
88	5.53	5.49	80	*
92	5.53	5.527	80	*
98	5.53	5.535	80	*

Type 6 Radar Waveform_3

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
2	5.53	5.504	80	*
10	5.53	5.529	80	*
23	5.53	5.544	80	*
28	5.53	5.526	80	*
35	5.53	5.538	80	*
36	5.53	5.509	80	*
41	5.53	5.552	80	*
44	5.53	5.541	80	*
47	5.53	5.503	80	*
49	5.53	5.562	80	*
53	5.53	5.565	80	*
60	5.53	5.537	80	*
64	5.53	5.499	80	*
65	5.53	5.517	80	*
67	5.53	5.501	80	*
76	5.53	5.494	80	*
77	5.53	5.558	80	*
84	5.53	5.519	80	*
88	5.53	5.531	80	*
92	5.53	5.502	80	*

Type 6 Radar Waveform_4

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
3	5.53	5.569	80	*
7	5.53	5.494	80	*
9	5.53	5.492	80	*
17	5.53	5.499	80	*
28	5.53	5.558	80	*
42	5.53	5.504	80	*
48	5.53	5.505	80	*
49	5.53	5.527	80	*
63	5.53	5.547	80	*
65	5.53	5.535	80	*
90	5.53	5.537	80	*
94	5.53	5.548	80	*
98	5.53	5.541	80	*

Type 6 Radar Waveform_5

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.53	5.49	80	*
12	5.53	5.557	80	*
15	5.53	5.565	80	*
20	5.53	5.546	80	*
24	5.53	5.568	80	*
26	5.53	5.497	80	*
28	5.53	5.522	80	*
32	5.53	5.521	80	*
35	5.53	5.56	80	*
37	5.53	5.53	80	*
44	5.53	5.506	80	*
48	5.53	5.555	80	*
50	5.53	5.538	80	*
55	5.53	5.544	80	*
56	5.53	5.523	80	*
67	5.53	5.505	80	*
70	5.53	5.512	80	*
73	5.53	5.517	80	*
74	5.53	5.513	80	*
76	5.53	5.501	80	*
85	5.53	5.533	80	*
88	5.53	5.509	80	*
92	5.53	5.503	80	*
100	5.53	5.556	80	*

Type 6 Radar Waveform_6

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
16	5.53	5.547	80	*
38	5.53	5.533	80	*
41	5.53	5.522	80	*
42	5.53	5.538	80	*
46	5.53	5.491	80	*
47	5.53	5.523	80	*
49	5.53	5.567	80	*
54	5.53	5.56	80	*
57	5.53	5.557	80	*
59	5.53	5.508	80	*
60	5.53	5.518	80	*
64	5.53	5.568	80	*
95	5.53	5.5	80	*

Type 6 Radar Waveform_7

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.53	5.526	80	*
9	5.53	5.545	80	*
12	5.53	5.538	80	*
19	5.53	5.494	80	*
21	5.53	5.506	80	*
34	5.53	5.554	80	*
36	5.53	5.562	80	*
41	5.53	5.515	80	*
44	5.53	5.51	80	*
45	5.53	5.509	80	*
68	5.53	5.5	80	*
70	5.53	5.542	80	*
80	5.53	5.548	80	*
83	5.53	5.564	80	*
88	5.53	5.546	80	*
92	5.53	5.49	80	*
94	5.53	5.556	80	*

Type 6 Radar Waveform_8

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
12	5.53	5.495	80	*
15	5.53	5.568	80	*
19	5.53	5.55	80	*
20	5.53	5.512	80	*
45	5.53	5.529	80	*
50	5.53	5.565	80	*
52	5.53	5.549	80	*
53	5.53	5.544	80	*
54	5.53	5.558	80	*
55	5.53	5.515	80	*
57	5.53	5.507	80	*
58	5.53	5.528	80	*
62	5.53	5.562	80	*
65	5.53	5.547	80	*
68	5.53	5.497	80	*
88	5.53	5.496	80	*
92	5.53	5.531	80	*

Type 6 Radar Waveform_9

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
29	5.53	5.543	80	*
31	5.53	5.498	80	*
43	5.53	5.509	80	*
49	5.53	5.53	80	*
59	5.53	5.555	80	*
60	5.53	5.516	80	*
67	5.53	5.508	80	*
78	5.53	5.557	80	*
80	5.53	5.549	80	*
82	5.53	5.504	80	*
89	5.53	5.537	80	*
93	5.53	5.533	80	*
94	5.53	5.536	80	*
96	5.53	5.531	80	*
100	5.53	5.534	80	*

Type 6 Radar Waveform_10

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
5	5.53	5.568	80	*
6	5.53	5.553	80	*
11	5.53	5.5	80	*
26	5.53	5.513	80	*
28	5.53	5.538	80	*
34	5.53	5.515	80	*
42	5.53	5.528	80	*
44	5.53	5.511	80	*
54	5.53	5.507	80	*
60	5.53	5.518	80	*
68	5.53	5.561	80	*
70	5.53	5.55	80	*
73	5.53	5.496	80	*
79	5.53	5.514	80	*
85	5.53	5.512	80	*
88	5.53	5.556	80	*
91	5.53	5.552	80	*
92	5.53	5.54	80	*
100	5.53	5.565	80	*

Type 6 Radar Waveform_11

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
7	5.53	5.544	80	*
18	5.53	5.554	80	*
24	5.53	5.518	80	*
27	5.53	5.532	80	*
39	5.53	5.515	80	*
42	5.53	5.501	80	*
44	5.53	5.529	80	*
46	5.53	5.556	80	*
48	5.53	5.526	80	*
57	5.53	5.531	80	*
68	5.53	5.546	80	*
70	5.53	5.508	80	*
73	5.53	5.491	80	*
77	5.53	5.525	80	*
85	5.53	5.521	80	*
88	5.53	5.495	80	*
89	5.53	5.536	80	*
92	5.53	5.566	80	*
99	5.53	5.497	80	*

Type 6 Radar Waveform_12

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
1	5.53	5.519	80	*
15	5.53	5.5	80	*
24	5.53	5.561	80	*
35	5.53	5.544	80	*
58	5.53	5.509	80	*
61	5.53	5.549	80	*
65	5.53	5.558	80	*
67	5.53	5.497	80	*
71	5.53	5.493	80	*
84	5.53	5.531	80	*
86	5.53	5.537	80	*
88	5.53	5.498	80	*
89	5.53	5.506	80	*

Type 6 Radar Waveform_13

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
4	5.53	5.507	80	*
7	5.53	5.56	80	*
13	5.53	5.497	80	*
16	5.53	5.541	80	*
18	5.53	5.565	80	*
21	5.53	5.521	80	*
25	5.53	5.548	80	*
41	5.53	5.553	80	*
42	5.53	5.533	80	*
54	5.53	5.503	80	*
60	5.53	5.545	80	*
62	5.53	5.534	80	*
65	5.53	5.502	80	*
68	5.53	5.511	80	*
74	5.53	5.563	80	*
80	5.53	5.557	80	*
84	5.53	5.54	80	*
86	5.53	5.542	80	*
90	5.53	5.561	80	*
93	5.53	5.546	80	*
99	5.53	5.562	80	*

Type 6 Radar Waveform_14

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
4	5.53	5.551	80	*
9	5.53	5.507	80	*
12	5.53	5.52	80	*
33	5.53	5.524	80	*
35	5.53	5.521	80	*
39	5.53	5.561	80	*
41	5.53	5.57	80	*
43	5.53	5.534	80	*
46	5.53	5.519	80	*
49	5.53	5.537	80	*
51	5.53	5.543	80	*
55	5.53	5.523	80	*
69	5.53	5.514	80	*
80	5.53	5.536	80	*
83	5.53	5.547	80	*
86	5.53	5.518	80	*
88	5.53	5.529	80	*
99	5.53	5.508	80	*

Type 6 Radar Waveform_15

Burst	Carrier (GHz)	Hop (GHz)	DUT BW (MHz)	Within RX
3	5.53	5.552	80	*
6	5.53	5.558	80	*
10	5.53	5.538	80	*
15	5.53	5.546	80	*
21	5.53	5.497	80	*
28	5.53	5.529	80	*
36	5.53	5.55	80	*
41	5.53	5.544	80	*
43	5.53	5.503	80	*
46	5.53	5.528	80	*
49	5.53	5.517	80	*
52	5.53	5.549	80	*
57	5.53	5.492	80	*
71	5.53	5.548	80	*
77	5.53	5.509	80	*
81	5.53	5.535	80	*
82	5.53	5.551	80	*