



**中认信通**

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



## DFS TEST REPORT

**Applicant:** SHENZHEN TENDA TECHNOLOGY CO.,LTD.

Address: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

**FCC ID:** V7TW30E

**Product Name:** AX3000 Dual Band Wi-Fi6 Wireless Hotspot Router

**Model Number:** W30E

**Standard(s):** 47 CFR Part 15, Subpart E(15.407)  
FCC KDB 905462 D02 UNII DFS Compliance  
Procedures New Rules v02

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

**Report Number:** CR230206428-00D

**Date Of Issue:** 2023/3/31

**Reviewed By:** Sun Zhong

*Sun Zhong*

Title: Manager

**Test Laboratory:** China Certification ICT Co., Ltd (Dongguan)

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## Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

## Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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## DOCUMENT REVISION HISTORY

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Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230206428-00D	Original Report	2023/3/31

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

<b>EUT Name:</b>	AX3000 Dual Band Wi-Fi6 Wireless Hotspot Router
<b>EUT Model:</b>	W30E
<b>Operation Frequency:</b>	5260-5320 MHz (802.11a/n ht20/ac vht20/ax he20) 5270-5310 MHz(802.11n ht40/ac vht40/ax he40) 5290 MHz(802.11ac vht80/ax he80) <b>5250 MHz(802.11ac vht160/ax he160)</b>
<b>Maximum Average Output Power (Conducted):</b>	23.21 dBm (5250-5350 MHz)
<b>Maximum Average Output Power (EIRP):</b>	29.23 dBm (5250-5350 MHz)
<b>Modulation Type:</b>	802.11a/n/ac/ax:OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM, 1024QAM
<b>Rated Input Voltage:</b>	DC 12V from Adapter
<b>Serial Number:</b>	21EC
<b>EUT Received Date:</b>	2023/2/16
<b>EUT Received Status:</b>	Good

### 1.1.3 Antenna Information Detail▲:

Antenna Chain	Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Chain 0	SHENZHEN TENDA TECHNOLOGY CO.,LTD.	Dipole	50	5250-5350MHz	6.02 dBi
Chain 1	SHENZHEN TENDA TECHNOLOGY CO.,LTD.	Dipole	50	5250-5350MHz	6.02 dBi

### 1.1.4 Accessory Information:

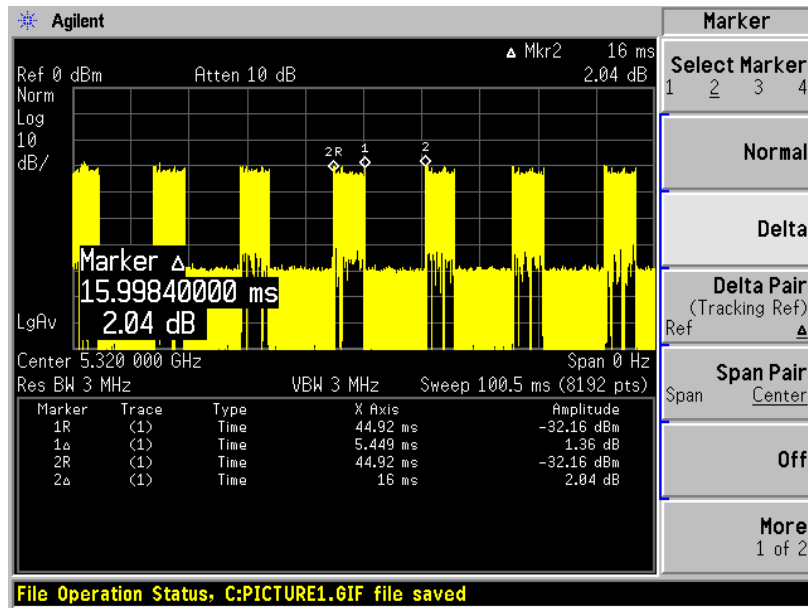
Accessory Description	Manufacturer	Model	Parameters
Adapter	SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.,LTD	BN074-A18012U	Input: 100-240Vac, 50/60Hz, 0.6A Output: DC12V, 1.5A

## 1.2 Description of Test Configuration

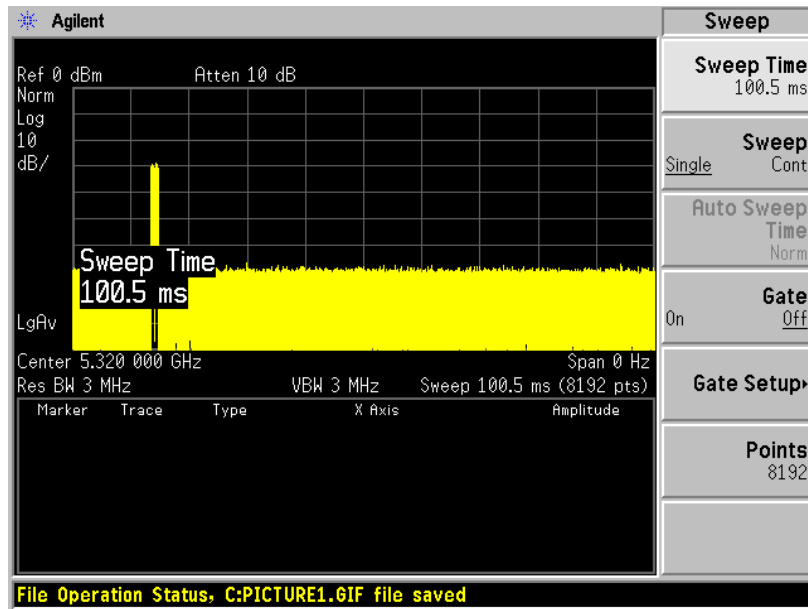
### 1.2.1 EUT Operation Condition:

<b>EUT Operation Mode:</b>	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.	
<b>Equipment Modifications:</b>	No	
<b>EUT Exercise Software:</b>	Tfgen	
The software was provided by manufacturer ▲. The below mode and data rate was used when testing:		
<b>Bandwidth</b>	<b>Modes</b>	<b>Data Rate</b>
20MHz	802.11ax hew20	MCS0
40MHz	802.11ax hew40	MCS0
80MHz	802.11ax hew80	MCS0
160MHz	802.11ax hew160	MCS0
WLAN traffic is generated by software “Tfgen”, software is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Data pakge streamed from the Access Point to the Client using the software “Tfgen”. The following duty cycle was used when test:		

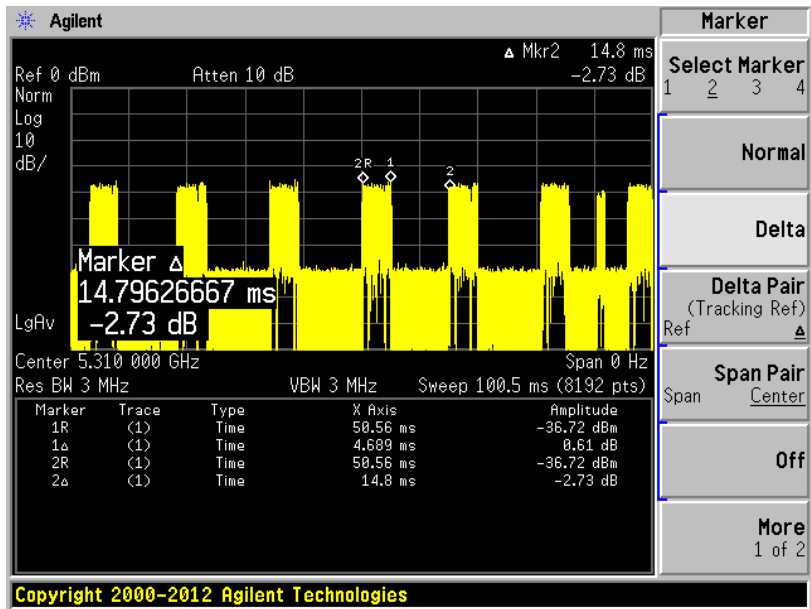
20MHz mode Traffic  
 Duty Cycle:  
 $5.449 * 7 / 100.5 = 37.95\%$



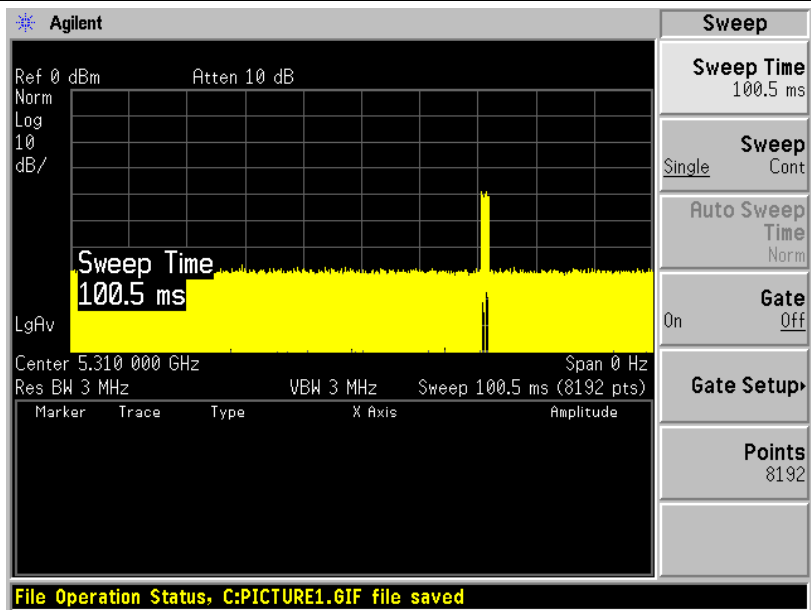
20MHz mode Without  
 Traffic



40MHz mode Traffic  
 Duty Cycle:  
 $4.689 * 7 / 100.5 = 32.66\%$

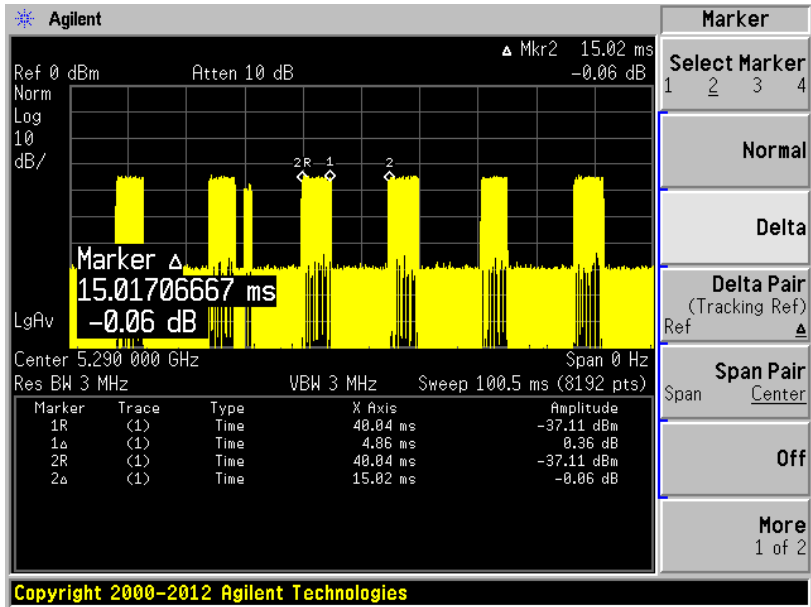


40MHz mode Without  
 Traffic

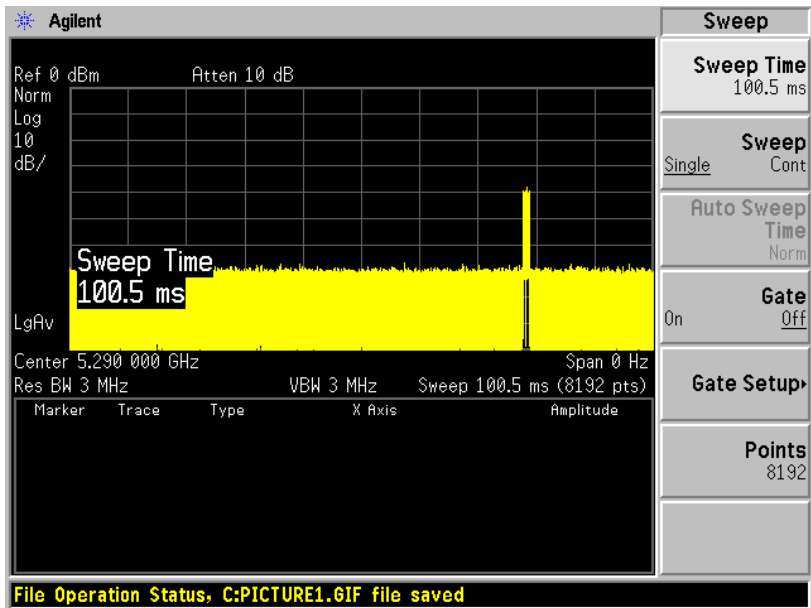




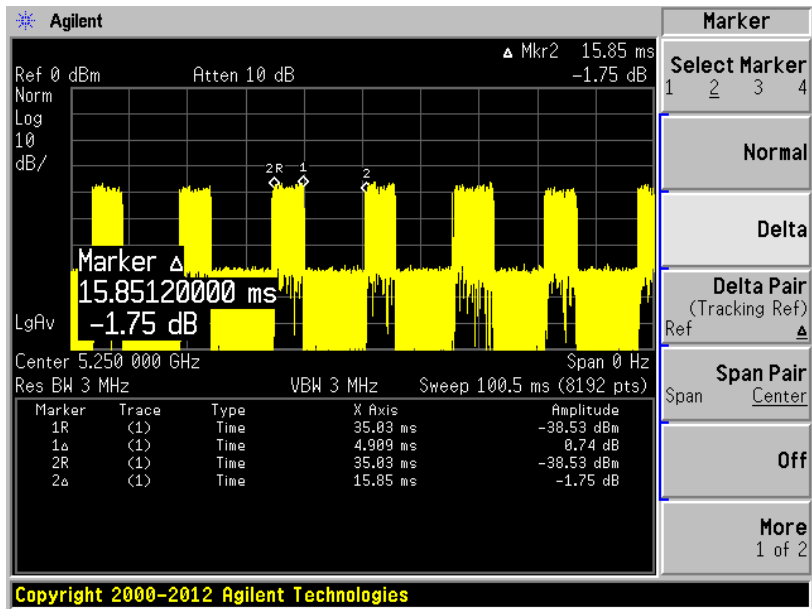
80MHz mode Traffic  
 Duty Cycle:  
 $4.86 * 6 / 100.5 = 29.01\%$



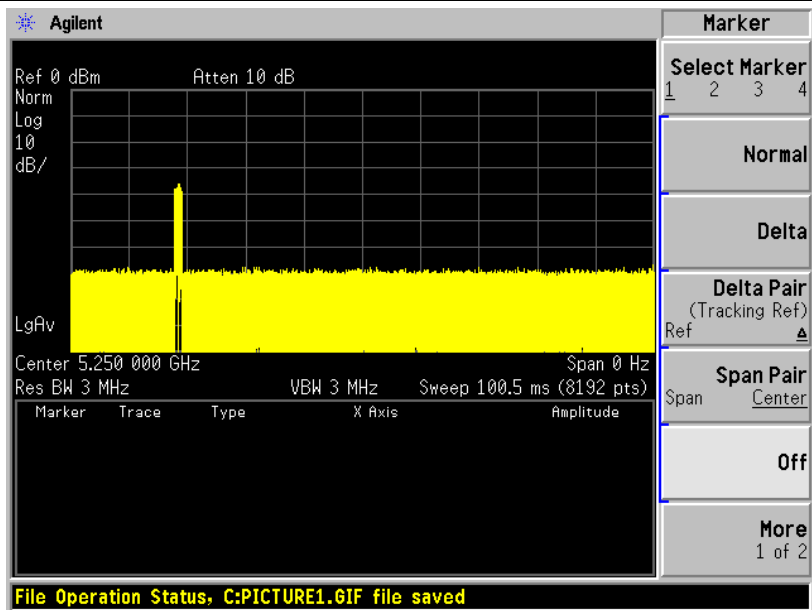
80MHz mode Without Traffic



160MHz mode Traffic  
 Duty Cycle:  
 $4.909 * 7 / 100.5 = 34.19\%$



160MHz mode Without  
 Traffic



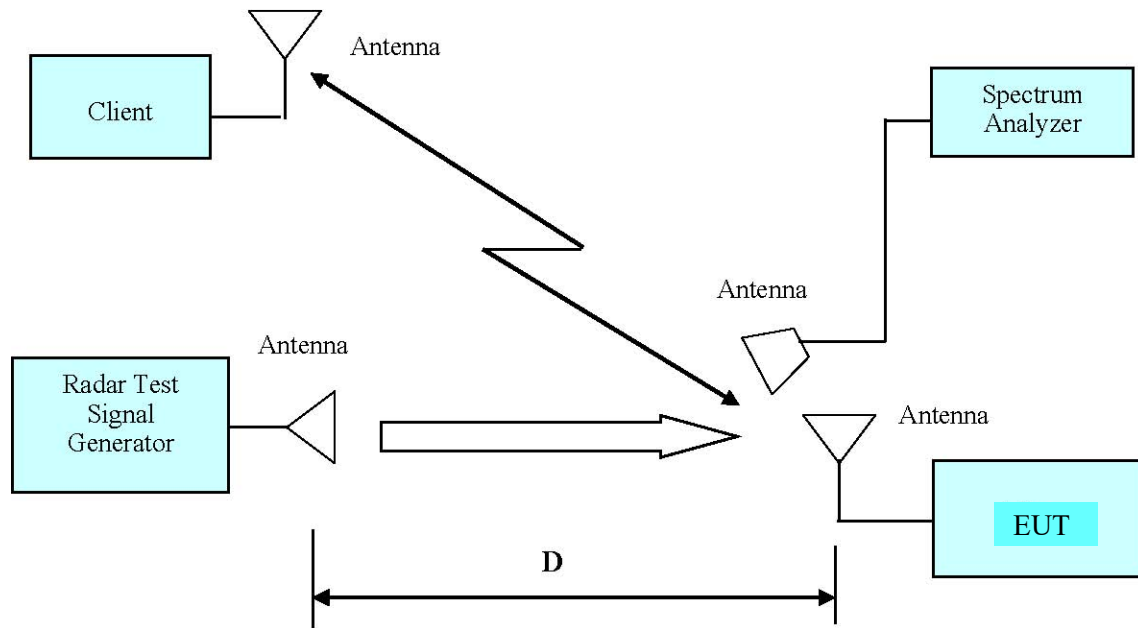
**1.2.2 Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T430	AA887-03
Asustek	Laptop	FX504G	J6NRCX014047232

**1.2.3 Support Cable List and Details**

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

**1.2.4 Block Diagram of Test Setup**



## 2. SUMMARY OF TEST RESULTS

The following result table represents the list of measurements required under the CFR §47 Part 15.407(h), KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

Items	Description of Test	Result
Detection Bandwidth	UNII Detection Bandwidth	Compliant
Performance Requirements Check	Initial Channel Availability Check Time (CAC)	Compliant
	Radar Burst at the Beginning of the CAC	Compliant
	Radar Burst at the End of the CAC	Compliant
In-Service Monitoring	Channel Move Time	Compliant
	Channel Closing Transmission Time	Compliant
	Non-Occupancy Period	Compliant
Radar Detection	Statistical Performance Check	Compliant

### 3. REQUIREMENTS AND TEST PROCEDURES

#### 3.1 DFS Requirement

CFR §47 Part 15.407(h)

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

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

**Table 2: Applicability of DFS requirements during normal operation**

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

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required

**Note:** Frequencies selected for statistical performance check (Section 7.8.4) 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: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection**

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p><b>Note 3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

**Table 4: DFS Response Requirement Values**

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U- NII 99% transmission power bandwidth. See Note 3.
<p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel move</i> (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.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> 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.</p>	

**Table 5 – 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 5a	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
<b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

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. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 usec is selected, the number of pulses

would be  $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Roundup} \{17.2\} = 18.$

**Table 5a - Pulse Repetition Intervals Values for Test A**

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

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$			



**Table 6 – Long Pulse Radar Test Waveform**

Radar Type	Pulse Width ( $\mu\text{sec}$ )	Chirp Width (MHz)	PRI ( $\mu\text{sec}$ )	Number of Pulses per <i>Burst</i>	Number of <i>Bursts</i>	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

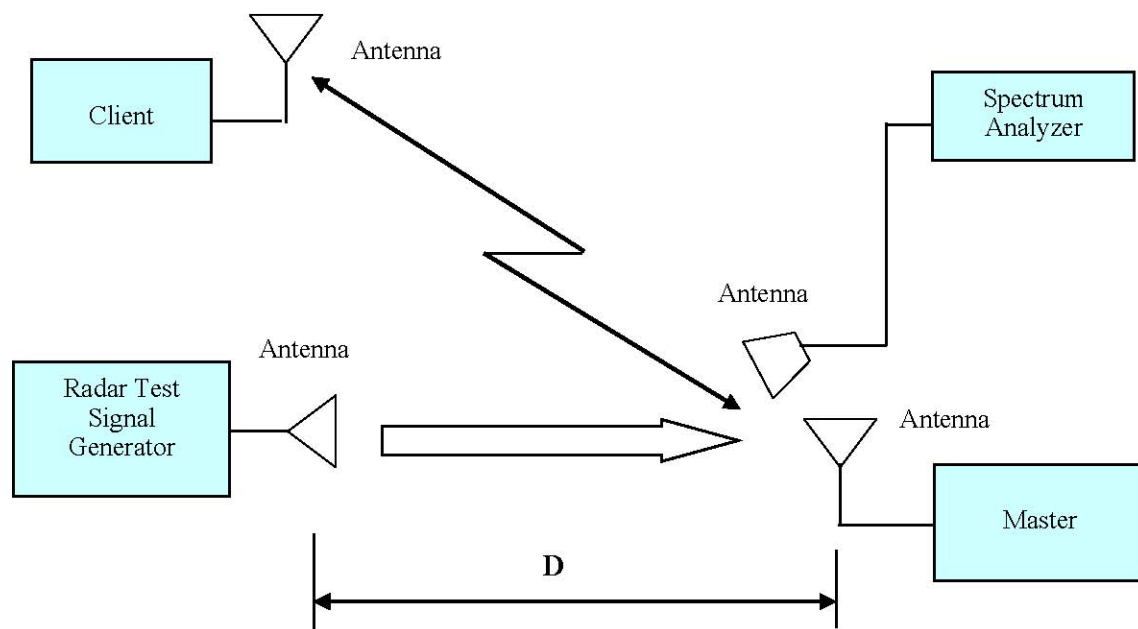
**Table 7 – Frequency Hopping Radar Test Waveform**

Radar Type	Pulse Width ( $\mu\text{sec}$ )	PRI ( $\mu\text{sec}$ )	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

### 3.2 DFS Measurement System

BACL DFS measurement system consists of two subsystems: (1) The radar signal generating subsystem and (2) the traffic monitoring subsystem.

### 3.3 System Block Diagram



### 3.4 Test Procedure

A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.

#### 4. Test DATA AND RESULTS

Serial Number:	21EC	Test Date:	2023/03/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ada Yan	Test Result:	Pass

##### Environmental Conditions:

Temperature: (°C)	23.6	Relative Humidity: (%)	66	ATM Pressure: (kPa)	100.9
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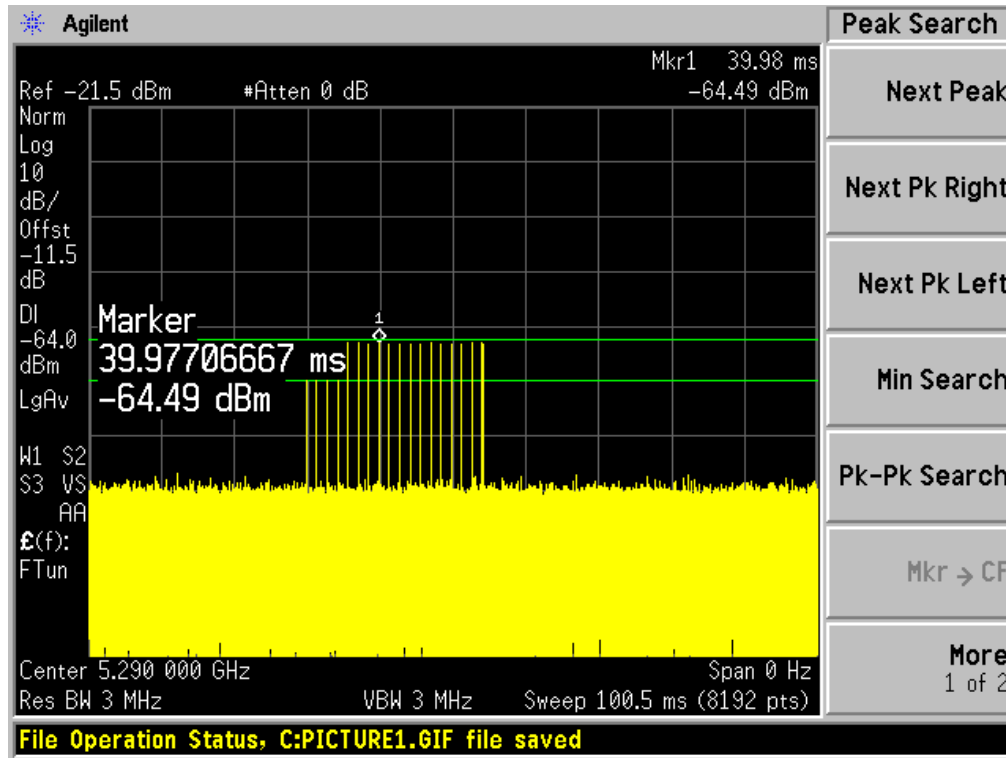
##### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	VOBX40FBD	N/A	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A	N/A
ASCOR	Upconverter	AS-7202	N/A	N/A	N/A
Agilent	Spectrum Analyzer	E4440A	SG43360054	2022/07/15	2023/07/14
Ditorn	Splitter/Combiner	D3C4080	SN2244	N/A	N/A
TDK RF	horn antenna	HRN-0118	130 084	2021/10/12	2024/10/12
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12

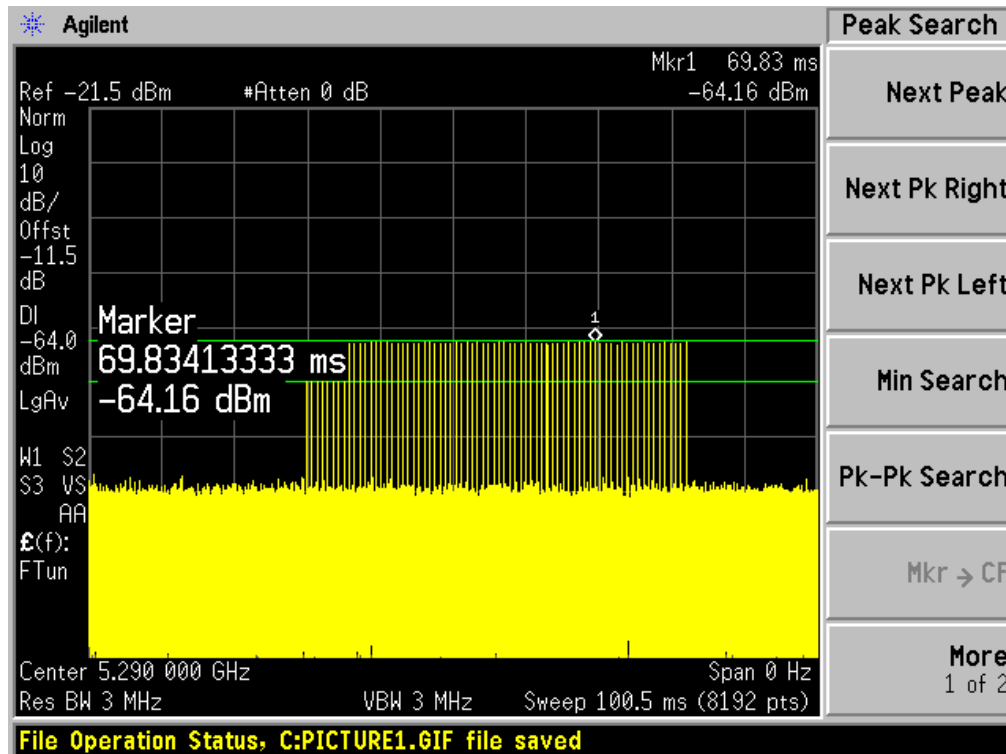
\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### 4.1 Radar Waveform Calibration 5290MHz:

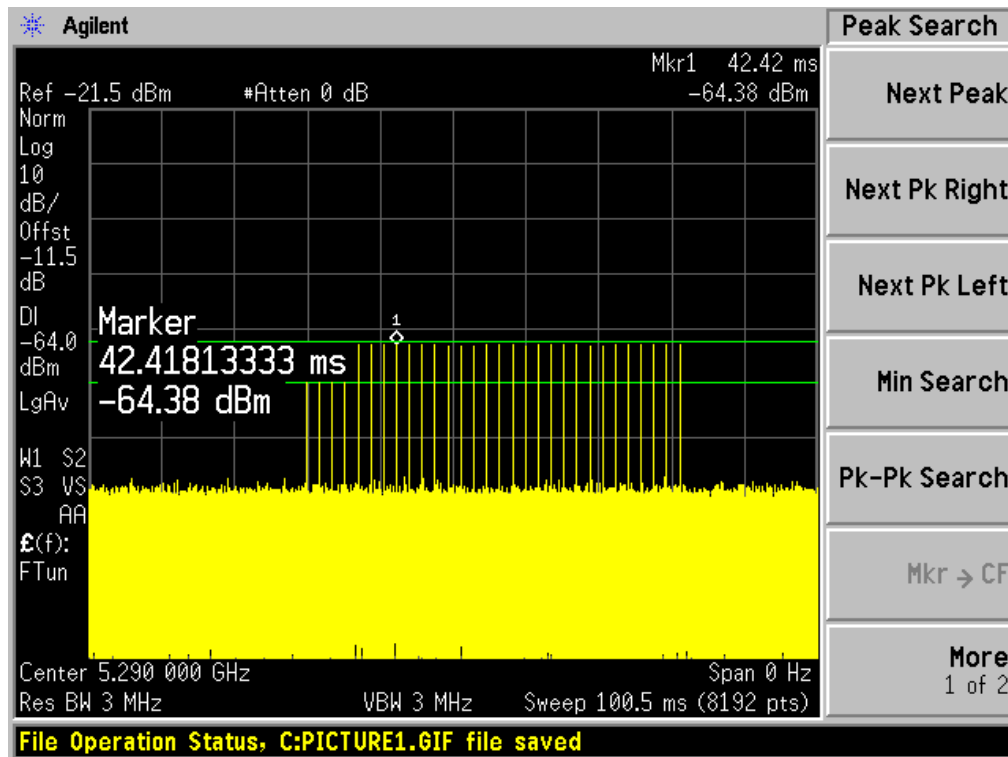
#### Radar Type 0



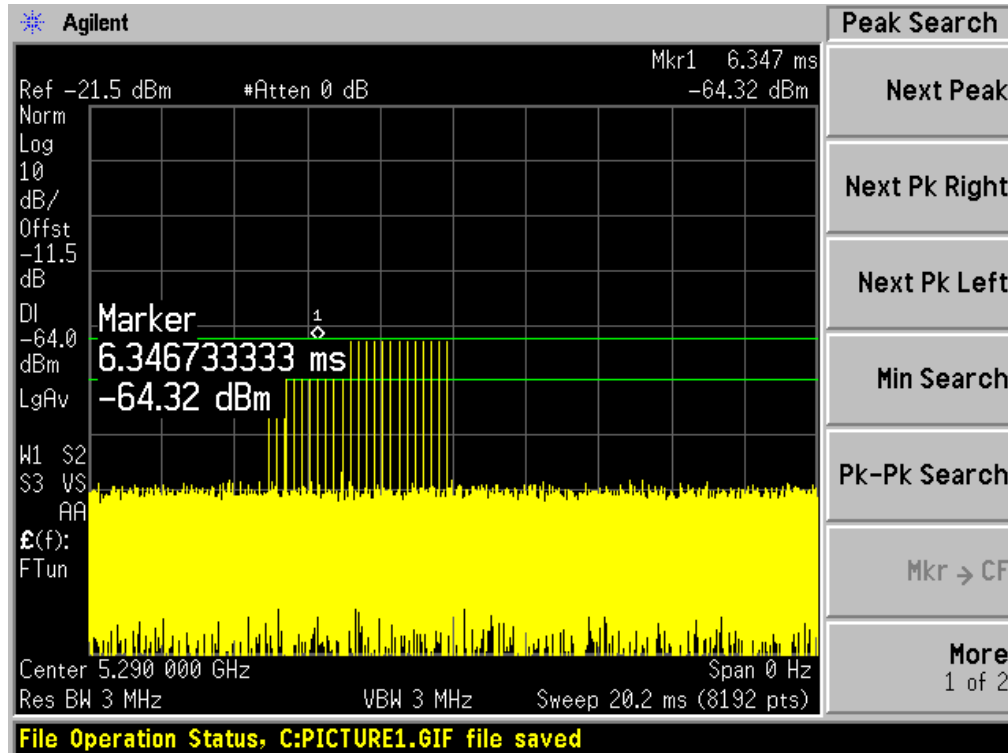
#### Radar Type 1A



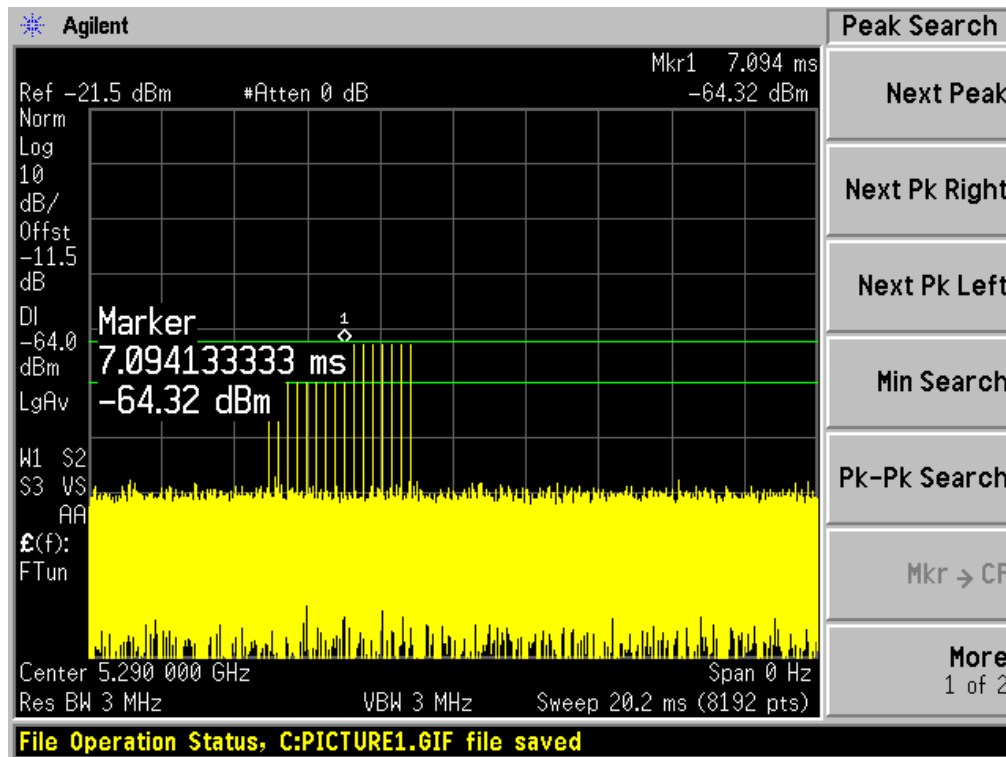
### Radar Type 1B



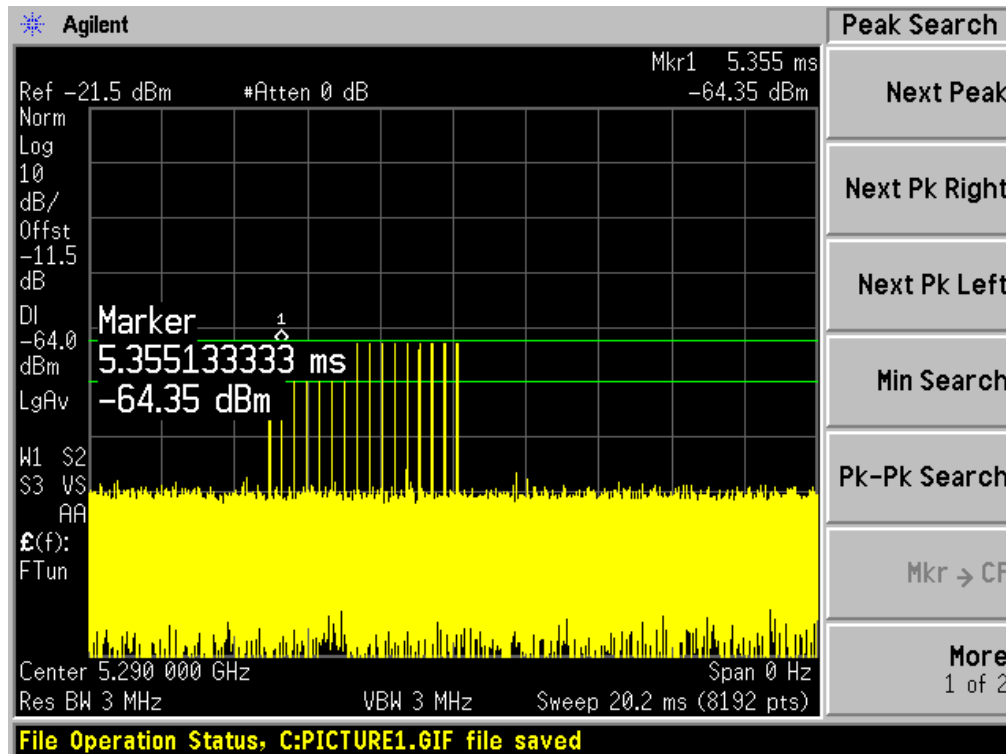
### Radar Type 2



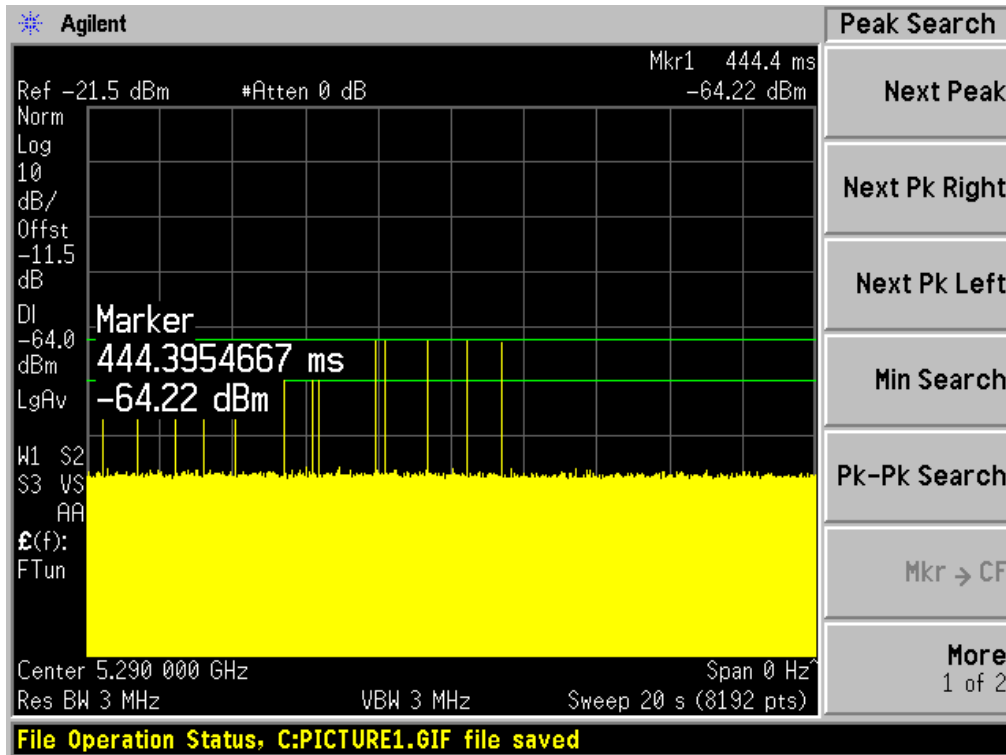
### Radar Type 3



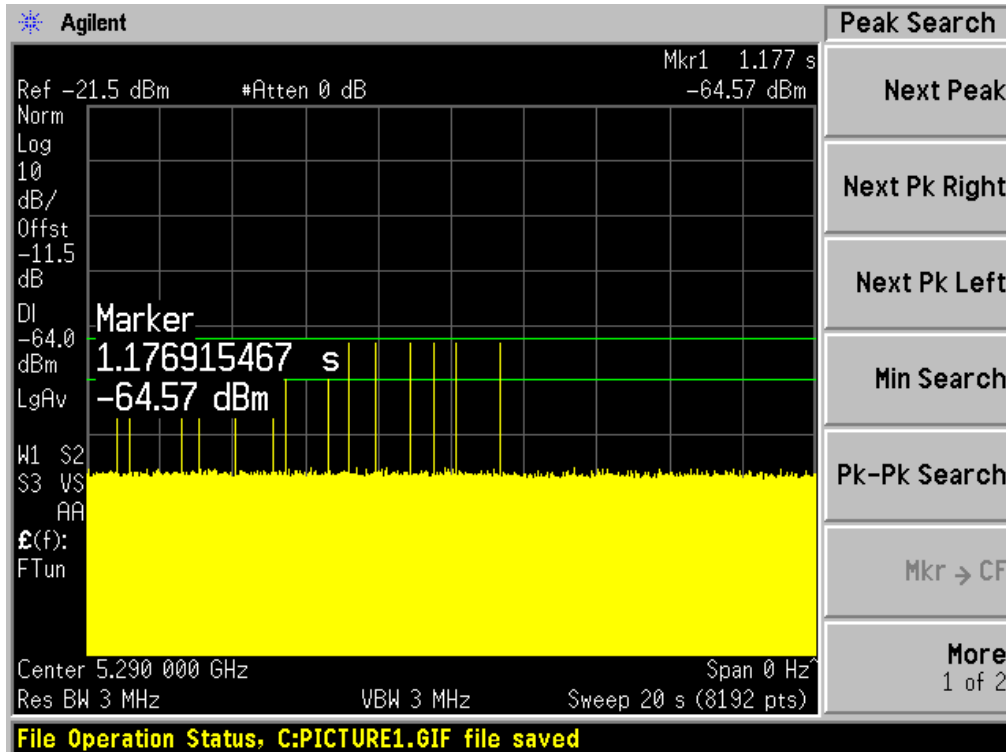
### Radar Type 4



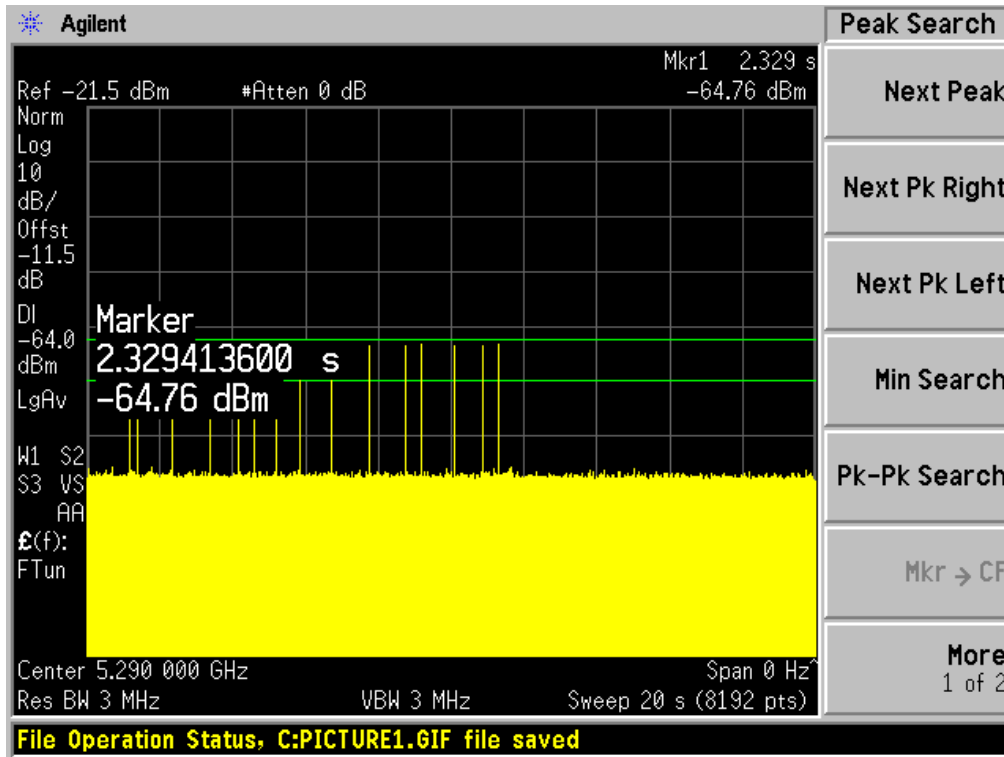
### Radar Type 5 Case 1



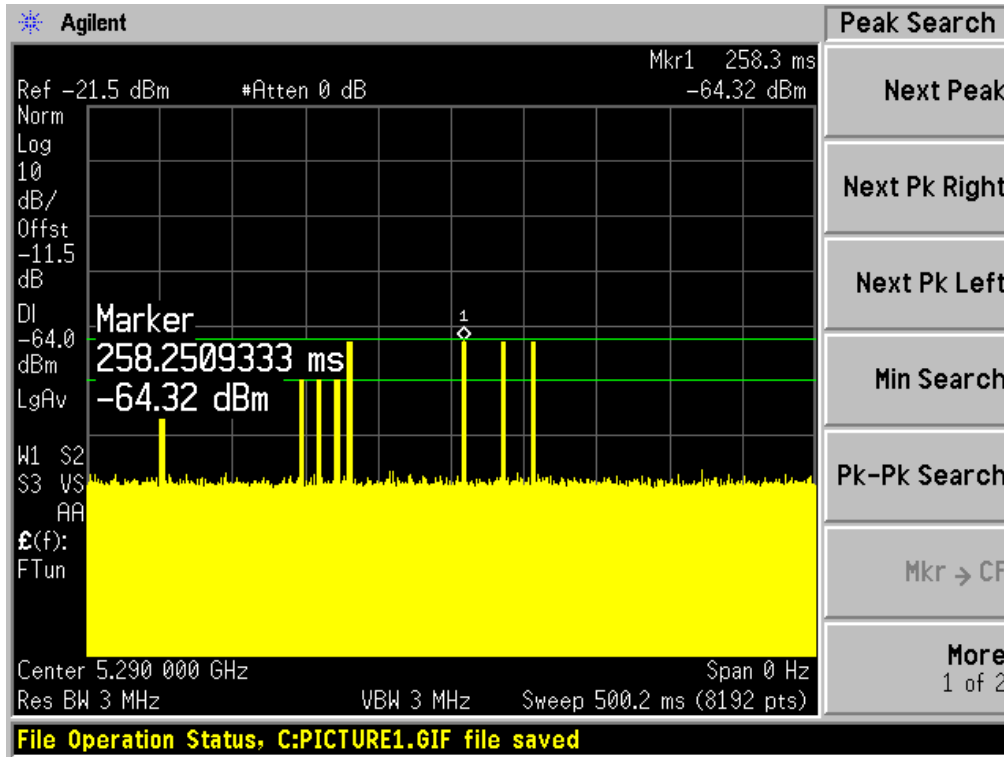
### Radar Type 5 Case 2



### Radar Type 5 Case 3



### Radar Type 6



## 4.2 Channel Availability Check Time (CAC)

### 4.2.1 Test Procedure

- 1) Channel Availability Check Time (CAC)
- 2) With link established on channel, apply a radar signal within 0~6 seconds after the initial power-up period; monitor the transmissions on channel from the spectrum analyzer.
- 3) Reboot EUT, with a link established on channel, apply a radar signal within 54~60 seconds after the initial power-up period, and monitor the transmission on channel from the spectrum analyzer.

### 4.2.2 EUT Initial power-up Cycle Time

Test Frequency (MHz)	EUT initial Power-up cycle (Second)
5290	62.9

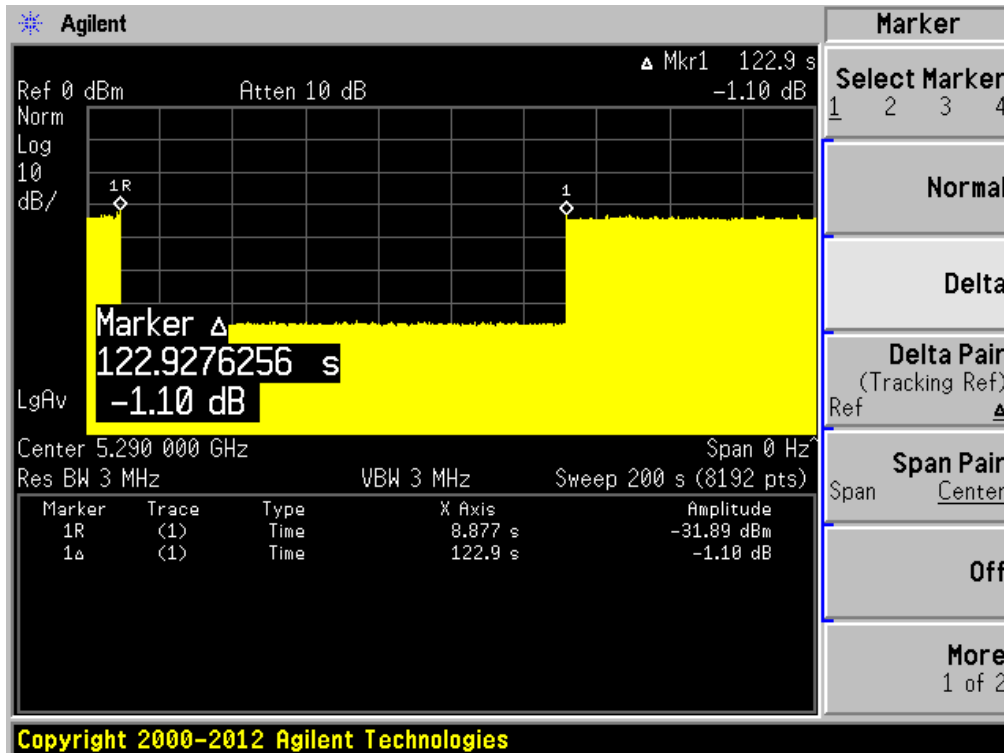
### 4.2.3 Results:

Timing of Radar Burst	Spectrum Analyzer Display
No Radar Triggered	Transmission begin after power-up cycle +60 seconds CAC
Within 6 seconds of the CAC starting	No transmission
Within the last 6 seconds of the CAC	No transmission

Please refer to the following plots.

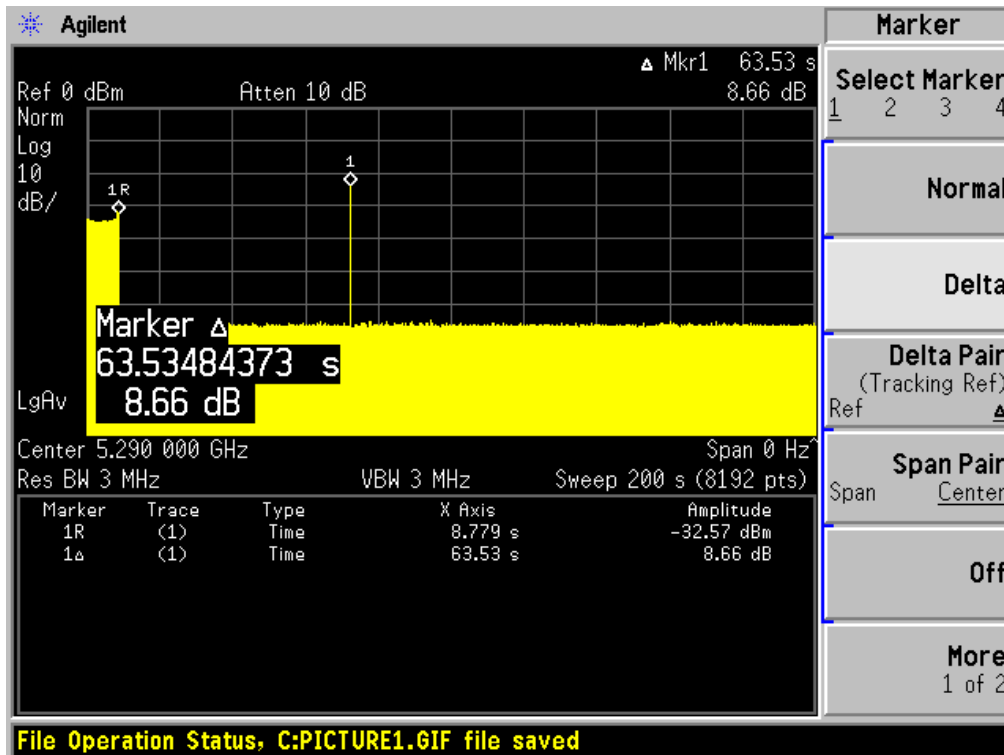


**Plot of without Radar signal applied**



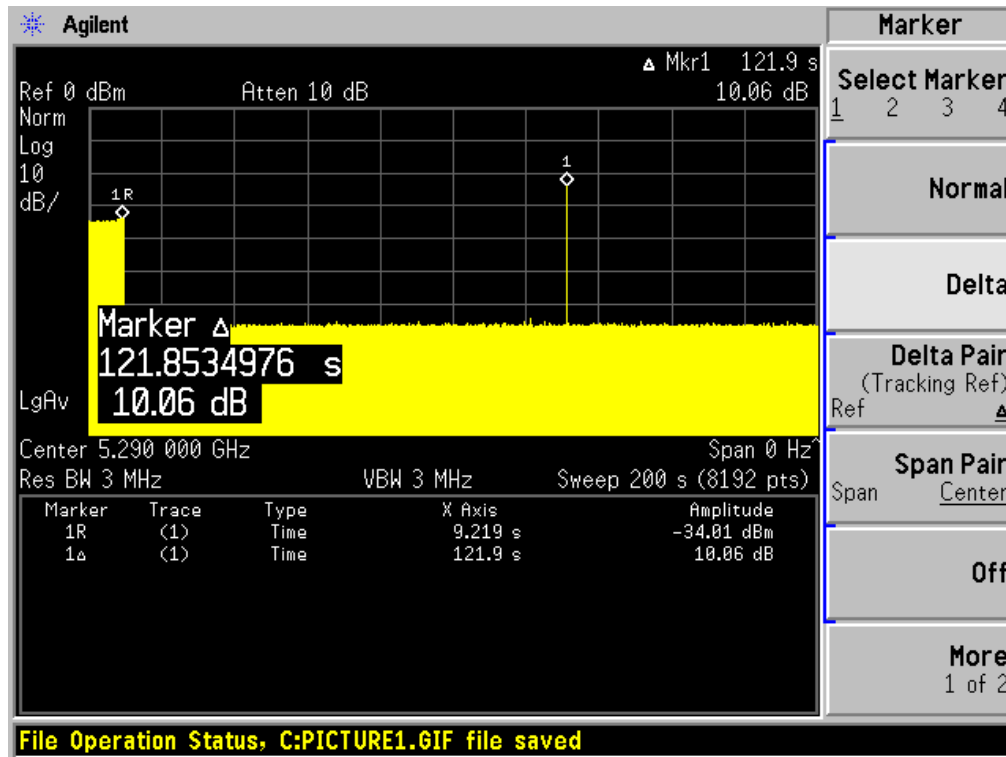
Note: The power-up cycle is 62.9 seconds.

**Plot of Radar signal applied within 6 seconds of start of CAC**



No transmissions found after radar signal applied.

**Plot of Radar signal applied at the end of 6 seconds of CAC**



No transmissions found after radar signal applied.

### 4.3 Channel Move Time And Channel Closing Transmission Time

#### 4.3.1 Test Procedure

Perform type 0 short pulse radar waveform.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N\*Dwell Time

N is the number of spectrum analyzer bins showing a device transmission Dwell Time is the dwell time per bin (i.e. Dwell Time = S/B, S is the sweep time and B is the number of bin, i.e. 8192)

#### 4.3.2 Test Results

Test Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5250 (Radar Frequency is 5290 MHz)	160	Type 0	Compliant

Please refer to the following tables and plots.

#### 4.3.3 Results:

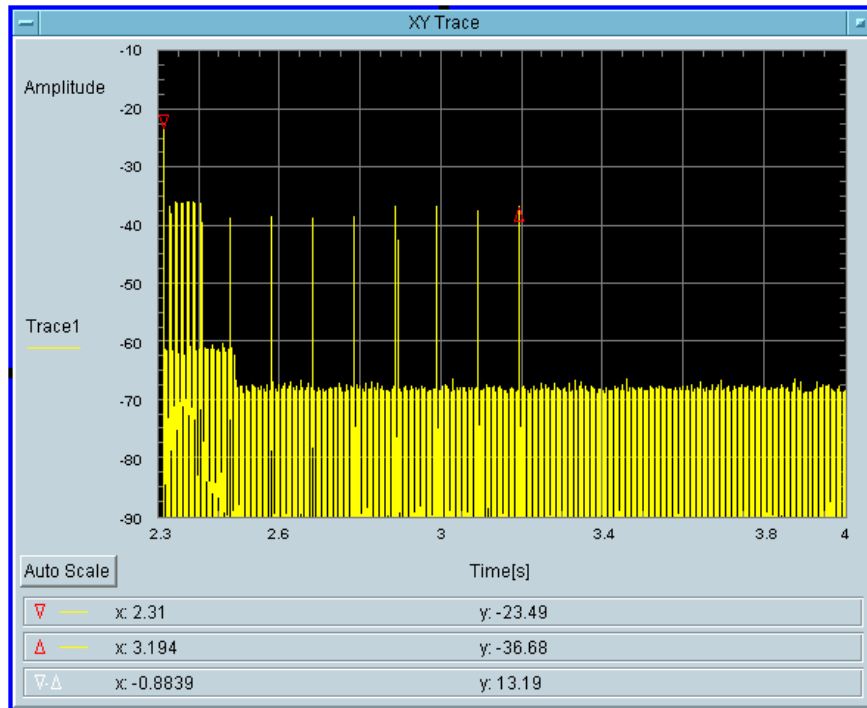
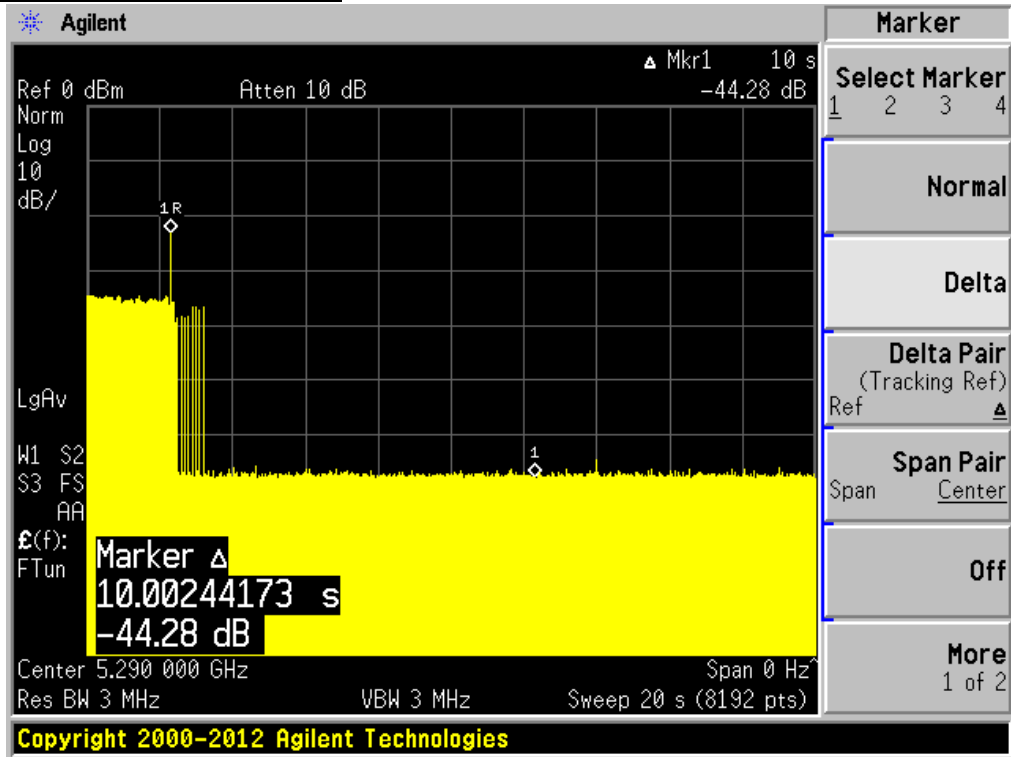
Type 0 radar channel move time result:

Channel Move Time (s)	Channel Move Time Limit (s)	Result
0.8839	10	Pass

Type0 radar channel closing transmission time result:

Transmission After 200ms	Aggregate Transmission Time After 200ms Delay (ms)	Limit for Aggregate Transmission Time After 200ms Delay (ms)	Result
No	19.53	60	Pass

Type 0 radar channel move time result:



Total On Time [s]  
0.1099

Total On Time After Delay [s]  
19.53m

### 4.4 Non-occupancy Period

#### 4.4.1 Test Procedure

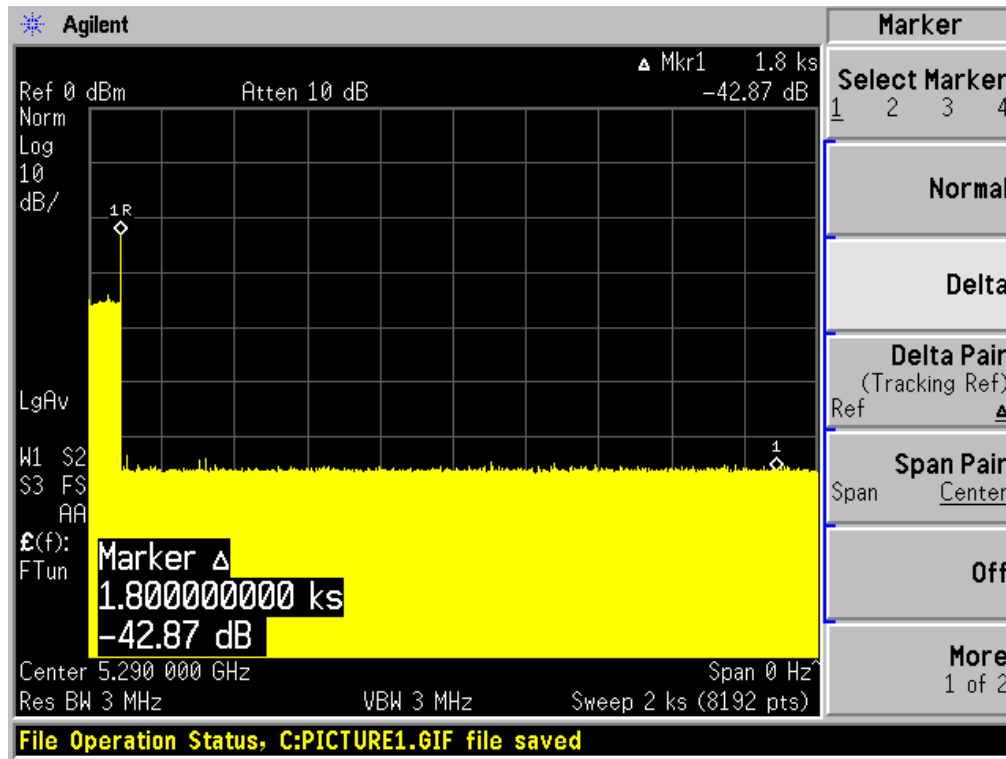
Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

#### 4.4.2 Test Result

Test Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5250 (Radar Frequency is 5290 MHz)	160	No transmission within 30 minutes

Please refer to the following plots.

5290 MHz



## 4.5 DETECTION BANDWIDTH

### 4.5.1 Test Procedure

Performed with Type 0 radar waveforms

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 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as  $F_H$ ) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies above  $F_H$  is not required to demonstrate compliance.

Starting at the center frequency of the UUT operating *Channel*, decrease 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 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as  $F_L$ ) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies below  $F_L$  is not required to demonstrate compliance.

The *U-NII Detection Bandwidth* is calculated as follows:

$$U\text{-NII Detection Bandwidth} = F_H - F_L$$

The *U-NII Detection Bandwidth* must meet the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Otherwise, the UUT does not comply with DFS requirements. This is essential to ensure that the UUT is capable of detecting *Radar Waveforms* across the same frequency spectrum that contains the significant energy from the system. In the case that the *U-NII Detection Bandwidth* is greater than or equal to the 99 percent power bandwidth for the measured  $F_H$  and  $F_L$ , the test can be truncated and the *U-NII Detection Bandwidth* can be reported as the measured  $F_H$  and  $F_L$ .

### 4.5.2 Test Result

Frequency (MHz)	Bandwidth Systems (MHz)	$F_L$ (MHz)	$F_H$ (MHz)	Detection Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Minimum Limit	Result
5320	20	5309	5331	22	19.28	100%	Compliance
5310	40	5289	5331	42	37.76	100%	Compliance
5290	80	5250	5331	81	77.44	100%	Compliance
5250	160	5250	5331	81	156.80*	100%	Compliance

\*:**Detection Bandwidth** Covered all bandwidth fall into 5250-5350 MHz

Please refer to the following tables.

## Results of Detection Bandwidth:

20MHz Bandwidth, EUT Frequency = 5320MHz											
DFS Detection Trials ( 1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5308	1	1	1	1	1	1	1	0	1	0	80 %
5309(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	0	90 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
<b>5320</b>	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
<b>5330</b>	1	1	1	1	1	1	1	1	1	1	100 %
<b>5331(F<sub>H</sub>)</b>	1	1	1	1	1	1	1	1	1	1	100 %
<b>5332</b>	1	1	1	1	1	1	1	0	1	0	80 %
<b>Detection Bandwidth = F<sub>H</sub> - F<sub>L</sub> = 5331-5309 = 22MHz</b>											
<b>EUT 99% BW = 19.28 MHz</b>										<b>Result: Pass</b>	

40MHz Bandwidth, EUT Frequency = 5310 MHz											
DFS Detection Trials ( 1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5288	1	1	1	1	1	1	1	1	0	0	80 %
5289(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	0	90 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
<b>5310</b>	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330	1	1	1	1	1	1	1	1	1	1	100 %
<b>5331(F<sub>H</sub>)</b>	1	1	1	1	1	1	1	1	1	1	100 %
5332	1	1	1	1	1	1	1	1	0	0	80 %
<b>Detection Bandwidth = F<sub>H</sub> - F<sub>L</sub> = 5331-5289 = 42 MHz</b>											
<b>EUT 99% BW = 37.76MHz;</b>										<b>Result: Pass</b>	

80MHz Bandwidth, EUT Frequency = 5290 MHz											
DFS Detection Trials ( 1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5250(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330	1	1	1	1	1	1	1	1	1	1	100 %
5331 (F <sub>H</sub> )	1	1	1	1	1	1	1	1	1	0	90 %
5332	1	1	1	1	1	1	1	1	0	0	80 %
<b>Detection Bandwidth</b> = F <sub>H</sub> – F <sub>L</sub> = 5331-5250=81MHz											
<b>EUT 99% BW</b> = 77.44 MHz;										<b>Result:</b> Pass	



160MHz Bandwidth, EUT Frequency = 5290 MHz											
DFS Detection Trials ( 1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5250(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330	1	1	1	1	1	1	1	1	1	1	100 %
5331 (F <sub>H</sub> )	1	1	1	1	1	1	1	1	1	0	90 %
5332	1	1	1	1	1	1	1	1	0	0	80 %
<b>Detection Bandwidth</b> = F <sub>H</sub> – F <sub>L</sub> = 5331-5250=81 MHz											
<b>EUT 99% BW</b> = 156.8 MHz ( <b>Detection Bandwidth</b> Covered all bandwidth fall into 5250-5350 MHz)											
<b>Result: Pass</b>											

## 4.6 STATISTICAL PERFORMANCE CHECK

### 4.6.1 Procedure:

The steps below define the procedure to determine the minimum percentage of successful detection requirements found in **Tables 5-7** 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*).

- a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
- b) In case the UUT is a U-NII device operating as a Client Device (with or without Radar Detection), a U-NII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the UUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- c) Stream the channel loading test file from the *Master Device* to the Client Device on the test *Channel* for the entire period of the test.
- d) At time  $T_0$  the *Radar Waveform* generator sends the individual waveform for each of the Radar Types 1- 6 in **Tables 5-7**, at levels defined in **Table 3**, on the *Operating Channel*. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.
- e) Observe the transmissions of the UUT at the end of the Burst on the *Operating Channel* for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.
- f) Observe the transmissions of the UUT 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.
- g) In case the UUT is a U-NII device operating as a *Client Device* with *In-Service Monitoring*, perform steps a) to f).

**4.6.2 Result:****160MHz(Radar Signal is 5290MHz)**

<b>Radar Signal Type</b>	<b>Waveform/Trial Number</b>	<b>Detection (%)</b>	<b>Limit (%)</b>	<b>Pass/Fail</b>
Type 1A	15	100%	60%	pass
Type 1B	15	93.33%	60%	pass
Type 2	30	100 %	60%	Pass
Type 3	30	93.33%	60%	Pass
Type 4	30	93.33 %	60%	Pass
Aggregate(Type1 to 4)	120	95.83 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

**5290MHz****Radar Type 1A Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	83	1	638	1
2	5290	92	1	578	1
3	5290	57	1	938	1
4	5290	89	1	598	1
5	5290	59	1	898	1
6	5290	68	1	778	1
7	5290	81	1	658	1
8	5290	63	1	838	1
9	5290	70	1	758	1
10	5290	74	1	718	1
11	5290	65	1	818	1
12	5290	61	1	878	1
13	5290	76	1	698	1
14	5290	102	1	518	1
15	5290	72	1	738	1
Detection Percentage: 100 % (>60%)					

**Radar Type 1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	55	1	960	1
2	5290	101	1	526	1
3	5290	31	1	1715	1
4	5290	36	1	1480	1
5	5290	36	1	1492	1
6	5290	44	1	1218	1
7	5290	18	1	2950	0
8	5290	21	1	2589	1
9	5290	45	1	1195	1
10	5290	79	1	672	1
11	5290	20	1	2777	1
12	5290	21	1	2531	1
13	5290	36	1	1495	1
14	5290	61	1	868	1
15	5290	36	1	1496	1
Detection Percentage: 93.33 % (>60%)					

**Radar Type 2 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	23	2.4	189	1
2	5290	29	1.7	152	1
3	5290	23	3.6	204	1
4	5290	29	1.3	202	1
5	5290	27	5	169	1
6	5290	27	3.4	219	1
7	5290	26	5	191	1
8	5290	28	2.9	181	1
9	5290	28	3.6	219	1
10	5290	24	3.8	214	1
11	5290	24	3.5	173	1
12	5290	27	3.5	167	1
13	5290	25	1.2	213	1
14	5290	24	1.2	213	1
15	5290	27	4.1	167	1
16	5290	27	1.8	174	1
17	5290	28	1.3	190	1
18	5290	24	1.5	199	1
19	5290	28	3	171	1
20	5290	25	3.6	152	1
21	5290	28	2.3	215	1
22	5290	25	2.4	221	1
23	5290	29	1.1	226	1
24	5290	23	1	187	1
25	5290	27	2.8	168	1
26	5290	27	4	226	1
27	5290	25	1.7	185	1
28	5290	26	1.8	192	1
29	5290	27	4	160	1
30	5290	29	1	183	1
<b>Detection Percentage: 100 % (&gt;60%)</b>					

**Radar Type 3 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	18	8.3	418	1
2	5290	17	7.2	316	1
3	5290	17	9	359	1
4	5290	18	6.6	241	1
5	5290	18	10	453	0
6	5290	16	8.7	370	1
7	5290	18	8.1	405	1
8	5290	18	7.1	488	1
9	5290	17	6.7	299	1
10	5290	18	7.3	364	1
11	5290	18	7.3	499	1
12	5290	17	6.7	329	1
13	5290	16	9.4	411	1
14	5290	18	8	430	1
15	5290	17	6.4	373	1
16	5290	18	9.7	262	1
17	5290	18	9.6	400	1
18	5290	18	6.6	330	1
19	5290	16	7.2	302	1
20	5290	17	7.1	345	1
21	5290	16	9.4	310	0
22	5290	18	9.5	363	1
23	5290	17	6.8	229	1
24	5290	17	8.4	314	1
25	5290	16	7.1	350	1
26	5290	16	8.5	413	1
27	5290	16	6.7	384	1
28	5290	17	6.9	449	1
29	5290	16	7.4	490	1
30	5290	16	8.8	493	1
<b>Detection Percentage: 93.33% (&gt;60%)</b>					

**Radar Type 4 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μS)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5290	14	16	240	1
2	5290	15	13	495	1
3	5290	15	12.7	378	1
4	5290	12	14.1	269	1
5	5290	12	16.3	422	1
6	5290	13	17.9	325	1
7	5290	14	12.5	281	1
8	5290	16	17.5	200	1
9	5290	15	13.8	200	1
10	5290	12	11.9	378	1
11	5290	12	19.2	225	1
12	5290	13	15.6	492	1
13	5290	16	16.9	425	1
14	5290	15	19.7	343	0
15	5290	14	18.3	452	1
16	5290	14	19.6	229	1
17	5290	13	19.2	232	1
18	5290	14	11.9	405	0
19	5290	15	16.1	424	1
20	5290	15	17.2	396	1
21	5290	12	18.7	349	1
22	5290	15	18.9	294	1
23	5290	12	18.3	224	1
24	5290	16	15.3	315	1
25	5290	15	13.5	331	1
26	5290	13	19.3	219	1
27	5290	16	12.5	244	1
28	5290	12	19.2	367	1
29	5290	13	19.6	378	1
30	5290	14	12.9	234	1
<b>Detection Percentage: 93.33 % (&gt;60%)</b>					

**Radar Type 5 Case 1 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	11	56.6	1550		0.61052	1
1	1	11	92.7			1.046058	
2	1	11	75.5			1.984619	
3	3	11	52	1438	1709	2.392737	
4	2	11	70.4	1154		3.347257	
5	2	11	70.9	1203		3.531026	
6	2	11	74.3	1927		4.644647	
7	3	11	64.5	1912	1106	5.516678	
8	3	11	65.9	1587	1951	5.839399	
9	3	11	65.6	1482	1808	6.921864	
10	3	11	55.1	1523	1821	7.421977	
11	2	11	84	1429		7.810189	
12	1	11	86.1			8.837886	
13	1	11	81.6			9.346872	
14	1	11	86.4			10.51883	
15	3	11	77	1587	1933	11.12585	
16	3	11	83.1	1103	1678	11.43204	

Statistics 2 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	13	71.8			0.627585	1
1	2	13	52.2	1933		1.170812	
2	1	13	77.3			1.456901	
3	1	13	62.7			2.186285	
4	3	13	67.6	1154	1981	2.94553	
5	1	13	99.9			3.588314	
6	1	13	69.1			3.885699	
7	3	13	55.6	1883	1234	5.038663	
8	3	13	52.2	1438	1424	5.64938	
9	3	13	90	1891	1338	6.095256	
10	2	13	77.1	1154		6.607202	
11	3	13	51.8	1267	1158	7.01277	
12	2	13	54.9	1414		8.105663	
13	2	13	58.5	1782		8.791179	
14	3	13	63.1	1404	1573	9.219206	
15	3	13	56.2	1862	1099	10.06588	
16	2	13	77.9	1824		10.14724	
17	3	13	53.4	1867	1487	11.29728	
18	3	13	71.6	1722	1091	11.43351	



## Statistics 3 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	11	84.9	1224	1975	0.011188	1
1	1	11	76.9			1.362714	
2	1	11	71			1.738547	
3	1	11	73			2.792535	
4	2	11	58.3	1159		3.335268	
5	1	11	68.6			4.031879	
6	3	11	88	1028	1621	4.533918	
7	2	11	52.7	1733		5.751583	
8	1	11	64.8			6.088508	
9	2	11	74.2	1179		7.166269	
10	1	11	50.5			7.642686	
11	2	11	88.3	1307		8.618076	
12	3	11	83.8	1653	1509	9.111966	
13	2	11	86.4	1739		10.09101	
14	3	11	58.7	1681	1381	10.95611	
15	1	11	98.3			11.6323	

## Statistics 4 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	8	82.1	1981	1174	1.090007	1
1	3	8	72.1	1676	1434	1.441622	
2	1	8	79.6			3.098455	
3	2	8	94.6	1010		4.744405	
4	2	8	74.4	1572		6.458016	
5	1	8	50.6			7.432488	
6	3	8	63.7	1188	1666	8.516514	
7	2	8	71.8	1207		10.13498	
8	1	8	71.1			11.81	

Statistics 5(ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	11	54.2			0.085286	1
1	1	11	65.5			1.143126	
2	1	11	63.8			2.380694	
3	1	11	62.7			3.587029	
4	1	11	50.1			4.612411	
5	1	11	75.3			4.992781	
6	2	11	81	1022		5.559329	
7	1	11	92.4			6.512888	
8	3	11	73.7	1885	1532	7.424188	
9	2	11	88.6	1200		9.078271	
10	2	11	88.7	1097		9.83654	
11	2	11	79.2	1486		10.85156	
12	3	11	74.3	1237	1958	11.13405	

Statistics 6 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	57.3	1295		0.136347	1
1	2	6	55.7	1015		0.941171	
2	3	6	67.1	1987	1324	1.712421	
3	1	6	56.5			2.182967	
4	1	6	93.4			3.215613	
5	2	6	54.9	1103		3.896769	
6	1	6	71.9			4.722957	
7	2	6	95.1	1506		5.611917	
8	3	6	96.9	1162	1978	6.196084	
9	1	6	50.3			6.458231	
10	1	6	79.9			7.701834	
11	2	6	87.6	1979		8.212781	
12	2	6	52.5	1222		8.578741	
13	1	6	89.2			9.794406	
14	2	6	98.5	1787		10.16607	
15	3	6	89	1114	1032	10.60122	
16	2	6	93.2	1770		11.5242	

Statistics 7(ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	53	1443		0.127016	1
1	1	10	92.9			0.757325	
2	2	10	70.2	1297		1.561115	
3	1	10	76.8			1.952777	
4	2	10	73.3	1104		2.683869	
5	2	10	51.4	1053		3.761241	
6	3	10	85.6	1981	1066	3.977458	
7	2	10	69.7	1756		4.79224	
8	2	10	68.9	1651		5.358288	
9	2	10	80.1	1705		5.993641	
10	1	10	85.8			6.653419	
11	2	10	73	1248		7.102988	
12	3	10	63.6	1266	1584	7.785966	
13	2	10	96	1996		8.442099	
14	1	10	62.1			9.234705	
15	2	10	91.3	1161		9.680727	
16	2	10	60.3	1911		10.31264	
17	1	10	85			10.87032	
18	1	10	77.7			11.54233	

Statistics 8 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	9	71.9	1009		0.469876	1
1	3	9	71.6	1587	1087	1.359888	
2	2	9	70.1	1265		2.470133	
3	2	9	85.8	1253		4.288559	
4	3	9	95.4	1184	1053	4.519777	
5	2	9	96.1	1597		6.050406	
6	2	9	99	1688		6.969455	
7	2	9	72	1890		7.662706	
8	3	9	86.5	1480	1065	9.414939	
9	2	9	98.5	1758		10.43891	
10	2	9	55.2	1213		10.9998	

Statistics 9 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	99.5	1642		0.650841	1
1	1	7	90.7			1.016192	
2	1	7	88.7			2.970893	
3	2	7	97.8	1987		3.398067	
4	2	7	71.8	1073		4.519343	
5	2	7	79.7	1167		5.549039	
6	1	7	93.6			6.14803	
7	2	7	60.1	1641		7.267198	
8	2	7	53.1	1147		8.231818	
9	3	7	89.8	1646	1184	9.267742	
10	2	7	64.8	1738		10.41339	
11	2	7	59.9	1802		11.27865	

Statistics 10 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	66.8	1530		0.825763	1
1	2	12	51.2	1135		1.505267	
2	2	12	54.5	1294		2.429673	
3	2	12	60.1	1345		3.380469	
4	1	12	64.5			4.109936	
5	2	12	76.4	1038		4.83427	
6	2	12	68.8	1420		6.302676	
7	2	12	69.6	1273		7.36027	
8	1	12	92.8			7.851636	
9	1	12	61.2			8.402664	
10	2	12	67.8	1790		9.395573	
11	1	12	54.6			10.99599	
12	2	12	61.3	1075		11.29392	

**Radar Type 5 Case 2 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5254 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	9	76.9	1016		0.567586	1
1	3	9	54.9	1837	1587	1.0279	
2	2	9	83.6	1830		2.108425	
3	2	9	97.1	1176		3.269515	
4	2	9	60.9	1850		3.609376	
5	3	9	97.9	1032	1668	4.597033	
6	3	9	88	1674	1617	5.628625	
7	2	9	79.9	1653		6.693177	
8	1	9	74			7.265687	
9	1	9	60			8.142632	
10	2	9	98.9	1318		8.854123	
11	1	9	51.5			10.17261	
12	3	9	62.1	1078	1849	10.34979	
13	3	9	82.7	1286	1175	11.24542	

Statistics 2 (ChirpCenter Frequency: 5254MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	9	99.2	1455	1855	0.328472	1
1	1	9	58.3			1.267834	
2	3	9	61.8	1513	1588	1.658469	
3	3	9	70	1224	1558	2.66845	
4	3	9	61.8	1496	1283	3.471403	
5	2	9	95	1313		4.491956	
6	2	9	92.3	1970		5.438801	
7	2	9	53.1	1172		6.377828	
8	3	9	81.4	1158	1083	6.643924	
9	1	9	97.7			7.229249	
10	1	9	95.1			8.294141	
11	3	9	58.3	1892	1944	9.277725	
12	2	9	61.3	1604		9.783655	
13	1	9	95			11.13993	
14	3	9	65.5	1828	1485	11.95832	

Statistics 3 (ChirpCenter Frequency: 5257.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	71.6	1330		0.395354	1
1	2	12	63.4	1729		1.167655	
2	3	12	94.9	1915	1940	1.856449	
3	1	12	69.7			2.555239	
4	2	12	56.2	1944		2.851246	
5	2	12	56.5	1719		3.763633	
6	3	12	53.1	1592	1374	4.521609	
7	1	12	68.8			5.014227	
8	3	12	68	1627	1027	5.946684	
9	3	12	71.1	1617	1664	6.945155	
10	2	12	55.3	1333		7.286324	
11	2	12	90.7	1573		8.455989	
12	3	12	97.4	1139	1387	9.126235	
13	2	12	95.8	1272		9.831556	
14	2	12	98.6	1571		10.4385	
15	1	12	64.6			11.18288	
16	2	12	86.6	1943		11.36885	

Statistics 4 (ChirpCenter Frequency: 5256.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	19	92.1	1500		0.877447	1
1	1	19	51.5			1.884494	
2	2	19	72.3	1871		2.527906	
3	2	19	58.8	1448		3.735352	
4	2	19	71.9	1463		5.20738	
5	2	19	96.5	1565		6.33528	
6	3	19	92	1272	1195	8.151621	
7	1	19	76.6			8.704748	
8	1	19	74.1			9.957476	
9	1	19	77.4			11.87367	

Statistics 5 (ChirpCenter Frequency: 5259.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	18	65.1	1032		0.133876	1
1	3	18	64.2	1988	1806	1.279003	
2	2	18	71.1	1290		2.032123	
3	2	18	86.7	1825		2.622173	
4	1	18	96			3.445439	
5	1	18	53.3			3.963956	
6	3	18	92.3	1015	1881	4.948415	
7	2	18	77.2	1596		5.76152	
8	2	18	90.6	1063		6.137691	
9	1	18	86.1			7.26866	
10	3	18	78.8	1529	1631	7.999999	
11	2	18	56.4	1652		8.971346	
12	1	18	88.3			9.478612	
13	3	18	70.1	1216	1104	10.06277	
14	2	18	55.6	1871		11.18325	
15	1	18	81.8			11.45105	

Statistics 6 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	11	89.4	1104		0.842002	1
1	2	11	88.8	1028		1.577712	
2	2	11	93.5	1189		2.907818	
3	2	11	77.3	1515		3.54564	
4	2	11	71.4	1761		4.085386	
5	2	11	65.6	1549		5.696712	
6	3	11	97.6	1059	1554	6.566877	
7	3	11	74.5	1540	1851	7.801972	
8	2	11	54	1449		8.57032	
9	3	11	54.9	1487	1809	9.120937	
10	1	11	84.9			10.47332	
11	2	11	97.9	1474		11.71825	

Statistics 7 (ChirpCenter Frequency: 5258.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	67.2	1249		0.837289	1
1	3	16	85.6	1554	1440	1.622637	
2	3	16	86.7	1400	1538	2.141003	
3	1	16	89.8			3.239598	
4	1	16	59.2			3.532209	
5	2	16	51.1	1235		4.66979	
6	3	16	64.3	1856	1031	5.165787	
7	3	16	79.2	1845	1729	6.781409	
8	1	16	65.2			7.075875	
9	2	16	73.5	1821		8.487241	
10	1	16	70.9			9.291386	
11	1	16	80.6			9.728138	
12	1	16	61.6			10.93237	
13	3	16	94.8	1819	1165	11.7142	

Statistics 8 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	11	85.2	1596	1896	0.202963	1
1	2	11	68.7	1386		0.932457	
2	2	11	55.6	1756		2.510895	
3	3	11	59.1	1383	1857	2.59386	
4	3	11	80.3	1035	1051	3.602601	
5	3	11	59.1	1370	1669	4.384984	
6	2	11	69.4	1380		5.316955	
7	1	11	72.7			6.245041	
8	3	11	79.6	1668	1584	7.300949	
9	3	11	88.8	1844	1528	7.903169	
10	2	11	52.9	1461		8.923589	
11	2	11	87.2	1262		9.642857	
12	2	11	54.8	1138		11.09924	
13	1	11	98.2			11.45544	



Statistics 9 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	9	55.9	1059		0.536791	1
1	1	9	57			0.935195	
2	2	9	67.6	1844		1.632674	
3	1	9	86.9			2.179852	
4	1	9	82.8			2.74985	
5	2	9	95.2	1465		3.088472	
6	2	9	69.3	1255		3.60853	
7	2	9	55.6	1209		4.341237	
8	2	9	63.6	1395		4.964258	
9	2	9	94.1	1213		5.756011	
10	2	9	77.1	1661		6.381857	
11	2	9	77.2	1123		6.702519	
12	1	9	77.1			7.728837	
13	2	9	63.6	1138		8.06759	
14	3	9	55	1417	1676	8.816416	
15	2	9	71.6	1182		9.126113	
16	2	9	85.8	1148		10.191	
17	1	9	57.3			10.38758	
18	1	9	57.8			11.10639	
19	2	9	78.1	1557		11.76875	

Statistics 10 (ChirpCenter Frequency: 5255.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	8	73.7			0.919592	1
1	2	8	74.2	1300		1.439338	
2	2	8	61.4	1111		2.48493	
3	3	8	86.7	1739	1079	3.56798	
4	3	8	82.1	1495	1673	4.333447	
5	2	8	91.5	1586		5.333633	
6	3	8	60.5	1691	1438	6.930134	
7	3	8	95.7	1187	1958	7.435538	
8	3	8	56.6	1088	1807	8.836373	
9	3	8	75.4	1993	1240	9.095191	
10	2	8	87	1086		10.75295	
11	3	8	95.7	1954	1507	11.92302	

**Radar Type 5 Case 3 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5322.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	14	94.4	1103		0.462392	1
1	2	14	69.1	1682		2.037572	
2	3	14	57.2	1653	1175	2.590561	
3	2	14	77.8	1810		4.125308	
4	3	14	61.1	1112	1191	5.365393	
5	3	14	72.1	1219	1170	5.620048	
6	1	14	75.4			6.977316	
7	2	14	89.4	1408		8.174129	
8	2	14	67.1	1711		9.297318	
9	1	14	85			10.10588	
10	2	14	74.6	1163		11.44091	

Statistics 2 (ChirpCenter Frequency: 5326.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	70	1043		0.769741	1
1	2	6	67.2	1123		1.682653	
2	2	6	96	1933		2.666479	
3	2	6	84.5	1980		3.559622	
4	2	6	63.2	1835		4.081844	
5	2	6	88.4	1801		5.377961	
6	3	6	54	1859	1266	6.564145	
7	2	6	78.5	1883		7.423424	
8	2	6	81.3	1760		8.449784	
9	2	6	80.3	1530		9.17129	
10	2	6	69.4	1973		10.55644	
11	1	6	51.8			11.89009	

Statistics 3 (ChirpCenter Frequency: 5324.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	9	84.2			0.136243	1
1	2	9	54.6	1728		1.549512	
2	2	9	90.1	1268		2.899307	
3	2	9	74.4	1893		3.46117	
4	2	9	53.3	1755		5.180936	
5	1	9	99			6.273019	
6	2	9	56.7	1399		7.567914	
7	2	9	97.7	1513		7.668029	
8	3	9	71.2	1323	1648	9.126665	
9	2	9	51.7	1429		10.33136	
10	1	9	61.5			10.96267	

Statistics 4 (ChirpCenter Frequency: 5322.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	14	56.7	1031		0.182063	1
1	1	14	56.8			1.080143	
2	2	14	52.7	1934		1.876789	
3	1	14	75.7			2.521707	
4	2	14	79.1	1104		3.062427	
5	1	14	77.8			3.418002	
6	1	14	59.5			4.288159	
7	1	14	82.6			5.079529	
8	2	14	90.1	1841		5.590473	
9	3	14	54.6	1671	1323	6.081596	
10	2	14	50.2	1650		7.236701	
11	3	14	61.9	1283	1620	7.407012	
12	3	14	88.8	1862	1804	8.601575	
13	3	14	60.9	1256	1086	9.033798	
14	3	14	57.5	1471	1785	9.662091	
15	1	14	54.3			10.38168	
16	2	14	75.3	1479		10.83647	
17	1	14	75.2			11.75303	

Statistics 5 (ChirpCenter Frequency: 5320.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	19	75.7	1356		0.787689	1
1	1	19	74.3			1.119011	
2	2	19	78.9	1852		1.6375	
3	3	19	86.7	1037	1213	2.802242	
4	3	19	80.8	1341	1653	3.284362	
5	1	19	83			4.563657	
6	2	19	90.5	1159		4.873493	
7	3	19	80.5	1980	1472	6.183628	
8	3	19	57.8	1747	1754	6.40703	
9	3	19	50.1	1806	1137	7.241385	
10	1	19	90.9			8.249558	
11	2	19	93.1	1188		8.802761	
12	1	19	56.8			10.25798	
13	1	19	52.2			10.56353	
14	2	19	70.4	1126		11.28993	

Statistics 6 (ChirpCenter Frequency: 5321.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	18	75.5	1583		0.577657	1
1	3	18	59.5	1411	1269	1.724324	
2	2	18	65.9	1739		1.903421	
3	2	18	97.8	1300		3.415991	
4	3	18	55.4	1194	1956	4.238128	
5	1	18	61.2			4.6428	
6	3	18	83.7	1241	1411	5.83929	
7	3	18	93.2	1669	1858	7.214285	
8	2	18	89.1	1254		7.965654	
9	2	18	83.9	1226		8.53402	
10	3	18	66.9	1781	1577	9.351542	
11	1	18	55.4			10.19171	
12	2	18	92.2	1474		11.75981	

Statistics 7 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	8	72.5			0.274876	1
1	2	8	63.7	1402		1.268046	
2	2	8	84.7	1634		1.643676	
3	2	8	94.4	1848		2.707128	
4	2	8	98.7	1607		3.144458	
5	3	8	81.7	1494	1784	3.696625	
6	3	8	66	1587	1662	4.657282	
7	2	8	72.2	1667		5.439085	
8	2	8	51.5	1515		5.652356	
9	3	8	84.5	1872	1447	6.473206	
10	1	8	74.2			7.256025	
11	2	8	82.2	1079		7.922947	
12	3	8	70.1	1746	1121	8.844356	
13	2	8	77.7	1193		9.615564	
14	2	8	53	1618		10.49383	
15	1	8	53.3			11.20266	
16	1	8	75.9			11.97837	

Statistics 8 (ChirpCenter Frequency: 5321.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	18	63.3	1727		0.526425	1
1	1	18	83.8			0.892102	
2	2	18	85.4	1047		1.664966	
3	3	18	53	1487	1464	2.249316	
4	1	18	83.8			2.963383	
5	3	18	73.2	1466	1241	3.68423	
6	3	18	53.5	1461	1491	3.972977	
7	3	18	72.1	1206	1359	4.77072	
8	3	18	70.8	1381	1096	5.622242	
9	2	18	73.5	1954		5.969283	
10	1	18	61.4			6.874703	
11	2	18	69.4	1215		7.40326	
12	1	18	51			8.104472	
13	2	18	58.3	1909		8.278281	
14	1	18	58.5			9.036242	
15	2	18	90.1	1634		9.694331	
16	2	18	98.4	1330		10.67086	
17	2	18	91.1	1171		10.94263	
18	3	18	82.5	1980	1791	11.63398	

## Statistics 9 (ChirpCenter Frequency: 5321.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	17	98.2	1793	1289	0.184499	1
1	2	17	62.4	1506		0.984302	
2	3	17	67.8	1212	1798	1.745963	
3	1	17	97.8			2.969895	
4	2	17	59.3	1995		3.27423	
5	2	17	50.8	1508		4.459828	
6	1	17	68.4			5.572144	
7	1	17	57.4			5.6628	
8	2	17	87.5	1402		6.91301	
9	2	17	51.2	1679		7.336336	
10	1	17	55.7			8.530034	
11	3	17	75.5	1948	1772	9.275537	
12	3	17	93.4	1412	1594	10.07313	
13	1	17	56.4			10.76713	
14	2	17	86.1	1568		11.46568	

## Statistics 10 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	8	50.7	1807	1592	0.022305	1
1	3	8	83.5	1335	1767	2.988133	
2	2	8	53.9	1949		3.919564	
3	1	8	62.3			4.780512	
4	2	8	96.8	1110		7.441598	
5	2	8	85.1	1684		7.833513	
6	3	8	82	1462	1759	10.24301	
7	2	8	58.6	1682		11.92686	

## Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (MHz)
1	5290	9	1	333	1	5517.0, 5701.0, 5287.0, 5555.0, 5587.0, 5563.0, 5433.0, 5427.0, 5698.0, 5612.0, 5662.0, 5467.0, 5449.0, 5599.0, 5271.0, 5679.0, 5543.0, 5677.0, 5285.0, 5464.0, 5282.0, 5498.0, 5331.0, 5709.0, 5304.0, 5472.0, 5389.0, 5385.0, 5414.0, 5681.0, 5436.0, 5291.0, 5362.0, 5669.0, 5314.0, 5303.0, 5251.0, 5268.0, 5388.0, 5630.0, 5656.0, 5620.0, 5446.0, 5312.0, 5608.0, 5533.0, 5257.0, 5515.0, 5531.0, 5683.0, 5456.0, 5621.0, 5399.0, 5697.0, 5490.0, 5527.0, 5404.0, 5518.0, 5293.0, 5471.0, 5432.0, 5365.0, 5458.0, 5636.0, 5633.0, 5686.0, 5529.0, 5485.0, 5704.0, 5628.0, 5473.0, 5391.0, 5474.0, 5481.0, 5275.0, 5322.0, 5379.0, 5625.0, 5646.0, 5286.0, 5311.0, 5548.0, 5552.0, 5641.0, 5670.0, 5695.0, 5306.0, 5723.0, 5336.0, 5610.0, 5523.0, 5298.0, 5585.0, 5259.0, 5632.0, 5588.0, 5547.0, 5483.0, 5615.0, 5650.0
2	5290	9	1	333	1	5722.0, 5639.0, 5351.0, 5717.0, 5338.0, 5546.0, 5607.0, 5719.0, 5561.0, 5562.0, 5526.0, 5506.0, 5368.0, 5514.0, 5549.0, 5680.0, 5399.0, 5504.0, 5672.0, 5471.0, 5646.0, 5503.0, 5449.0, 5294.0, 5518.0, 5416.0, 5490.0, 5304.0, 5625.0, 5345.0, 5461.0, 5335.0, 5586.0, 5610.0, 5536.0, 5510.0, 5707.0, 5548.0, 5710.0, 5357.0, 5378.0, 5618.0, 5686.0, 5367.0, 5362.0, 5643.0, 5385.0, 5306.0, 5631.0, 5612.0, 5281.0, 5720.0, 5630.0, 5333.0, 5689.0, 5723.0, 5392.0, 5307.0, 5724.0, 5500.0, 5695.0, 5473.0, 5636.0, 5390.0, 5701.0, 5329.0, 5656.0, 5647.0, 5633.0, 5423.0, 5273.0, 5535.0, 5470.0, 5344.0, 5570.0, 5358.0, 5583.0, 5433.0, 5605.0, 5491.0, 5382.0, 5673.0, 5688.0, 5626.0, 5356.0, 5551.0, 5632.0, 5425.0, 5252.0, 5374.0, 5606.0, 5507.0, 5405.0, 5476.0, 5262.0, 5505.0, 5413.0, 5486.0, 5391.0, 5398.0
3	5290	9	1	333	1	5425.0, 5292.0, 5397.0, 5523.0, 5527.0, 5473.0, 5586.0, 5496.0, 5610.0, 5470.0, 5497.0, 5696.0, 5552.0, 5346.0, 5481.0, 5261.0, 5714.0, 5500.0, 5393.0, 5525.0, 5359.0, 5345.0, 5522.0, 5319.0, 5587.0, 5641.0, 5491.0, 5672.0, 5488.0, 5694.0, 5711.0, 5706.0, 5330.0, 5266.0, 5258.0, 5492.0, 5443.0, 5275.0, 5715.0, 5519.0, 5304.0, 5646.0, 5361.0, 5693.0, 5719.0, 5456.0, 5412.0, 5366.0, 5594.0, 5273.0, 5608.0, 5614.0, 5567.0, 5703.0, 5430.0, 5331.0, 5541.0, 5632.0, 5422.0, 5287.0, 5322.0, 5314.0, 5656.0, 5498.0, 5598.0

						5723.0, 5686.0, 5351.0, 5666.0, 5281.0, 5256.0, 5623.0, 5298.0, 5695.0, 5520.0, 5669.0, 5589.0, 5250.0, 5524.0, 5423.0, 5424.0, 5660.0, 5382.0, 5368.0, 5262.0, 5708.0, 5546.0, 5419.0, 5447.0, 5402.0, 5653.0, 5595.0, 5441.0, 5574.0, 5333.0, 5362.0, 5606.0, 5286.0, 5299.0, 5675.0
4	5290	9	1	333	1	5602.0, 5657.0, 5492.0, 5325.0, 5319.0, 5303.0, 5441.0, 5345.0, 5374.0, 5718.0, 5710.0, 5446.0, 5612.0, 5394.0, 5381.0, 5356.0, 5557.0, 5357.0, 5324.0, 5617.0, 5397.0, 5644.0, 5427.0, 5698.0, 5268.0, 5652.0, 5444.0, 5477.0, 5284.0, 5304.0, 5331.0, 5589.0, 5587.0, 5341.0, 5508.0, 5348.0, 5704.0, 5321.0, 5493.0, 5408.0, 5392.0, 5293.0, 5272.0, 5369.0, 5476.0, 5530.0, 5380.0, 5253.0, 5388.0, 5504.0, 5409.0, 5586.0, 5315.0, 5354.0, 5364.0, 5254.0, 5317.0, 5273.0, 5676.0, 5322.0, 5630.0, 5440.0, 5598.0, 5453.0, 5560.0, 5690.0, 5705.0, 5667.0, 5649.0, 5294.0, 5474.0, 5455.0, 5661.0, 5634.0, 5516.0, 5637.0, 5379.0, 5286.0, 5390.0, 5628.0, 5646.0, 5706.0, 5306.0, 5546.0, 5461.0, 5332.0, 5264.0, 5438.0, 5559.0, 5594.0, 5383.0, 5600.0, 5712.0, 5702.0, 5301.0, 5439.0, 5635.0, 5623.0, 5613.0, 5459.0
5	5290	9	1	333	1	5431.0, 5404.0, 5562.0, 5438.0, 5651.0, 5398.0, 5486.0, 5589.0, 5715.0, 5258.0, 5529.0, 5354.0, 5463.0, 5401.0, 5467.0, 5664.0, 5566.0, 5327.0, 5668.0, 5432.0, 5428.0, 5639.0, 5283.0, 5306.0, 5469.0, 5409.0, 5592.0, 5357.0, 5458.0, 5595.0, 5372.0, 5676.0, 5275.0, 5687.0, 5488.0, 5475.0, 5416.0, 5565.0, 5367.0, 5402.0, 5393.0, 5379.0, 5397.0, 5709.0, 5292.0, 5660.0, 5293.0, 5567.0, 5288.0, 5624.0, 5611.0, 5262.0, 5553.0, 5413.0, 5657.0, 5329.0, 5545.0, 5476.0, 5513.0, 5261.0, 5437.0, 5617.0, 5623.0, 5602.0, 5628.0, 5549.0, 5714.0, 5495.0, 5515.0, 5440.0, 5382.0, 5682.0, 5560.0, 5304.0, 5690.0, 5423.0, 5337.0, 5554.0, 5521.0, 5356.0, 5418.0, 5376.0, 5268.0, 5316.0, 5377.0, 5705.0, 5487.0, 5395.0, 5697.0, 5425.0, 5360.0, 5603.0, 5373.0, 5640.0, 5689.0, 5622.0, 5528.0, 5493.0, 5490.0, 5286.0
6	5290	9	1	333	1	5598.0, 5425.0, 5580.0, 5493.0, 5659.0, 5696.0, 5536.0, 5352.0, 5550.0, 5455.0, 5392.0, 5376.0, 5641.0, 5713.0, 5269.0, 5435.0, 5486.0, 5480.0, 5423.0, 5368.0, 5562.0, 5254.0, 5466.0, 5595.0, 5262.0, 5420.0, 5523.0, 5513.0, 5361.0, 5333.0, 5723.0, 5688.0, 5505.0, 5615.0, 5666.0, 5712.0, 5492.0, 5717.0, 5495.0, 5668.0, 5475.0, 5366.0, 5680.0, 5406.0, 5576.0, 5428.0, 5605.0, 5441.0, 5498.0, 5384.0, 5582.0, 5522.0, 5678.0, 5414.0, 5314.0, 5631.0, 5699.0, 5334.0, 5481.0, 5265.0,



						5286.0, 5587.0, 5299.0, 5474.0, 5278.0, 5316.0, 5405.0, 5386.0, 5499.0, 5283.0, 5540.0, 5628.0, 5268.0, 5630.0, 5264.0, 5674.0, 5373.0, 5330.0, 5606.0, 5458.0, 5374.0, 5277.0, 5350.0, 5527.0, 5304.0, 5364.0, 5635.0, 5322.0, 5393.0, 5660.0, 5645.0, 5672.0, 5706.0, 5266.0, 5698.0, 5347.0, 5578.0, 5394.0, 5312.0, 5397.0
7	5290	9	1	333	1	5546.0, 5354.0, 5501.0, 5403.0, 5470.0, 5561.0, 5489.0, 5720.0, 5320.0, 5292.0, 5547.0, 5713.0, 5400.0, 5269.0, 5384.0, 5587.0, 5593.0, 5419.0, 5572.0, 5325.0, 5265.0, 5324.0, 5536.0, 5539.0, 5705.0, 5700.0, 5438.0, 5649.0, 5327.0, 5567.0, 5259.0, 5462.0, 5569.0, 5380.0, 5338.0, 5299.0, 5355.0, 5575.0, 5498.0, 5267.0, 5635.0, 5600.0, 5370.0, 5345.0, 5706.0, 5337.0, 5621.0, 5488.0, 5416.0, 5304.0, 5714.0, 5505.0, 5487.0, 5529.0, 5598.0, 5307.0, 5404.0, 5368.0, 5282.0, 5655.0, 5275.0, 5650.0, 5486.0, 5580.0, 5542.0, 5288.0, 5563.0, 5362.0, 5634.0, 5393.0, 5668.0, 5534.0, 5632.0, 5669.0, 5346.0, 5439.0, 5334.0, 5432.0, 5295.0, 5465.0, 5441.0, 5383.0, 5284.0, 5426.0, 5298.0, 5578.0, 5577.0, 5548.0, 5469.0, 5558.0, 5353.0, 5554.0, 5626.0, 5308.0, 5521.0, 5407.0, 5601.0, 5637.0, 5516.0, 5467.0
8	5290	9	1	333	1	5394.0, 5558.0, 5446.0, 5492.0, 5284.0, 5336.0, 5584.0, 5307.0, 5477.0, 5314.0, 5333.0, 5587.0, 5603.0, 5294.0, 5650.0, 5674.0, 5675.0, 5615.0, 5361.0, 5643.0, 5614.0, 5534.0, 5579.0, 5484.0, 5306.0, 5293.0, 5496.0, 5416.0, 5490.0, 5698.0, 5608.0, 5368.0, 5344.0, 5400.0, 5371.0, 5601.0, 5269.0, 5542.0, 5326.0, 5707.0, 5562.0, 5550.0, 5318.0, 5288.0, 5723.0, 5582.0, 5254.0, 5494.0, 5708.0, 5689.0, 5354.0, 5252.0, 5634.0, 5704.0, 5668.0, 5382.0, 5495.0, 5702.0, 5522.0, 5545.0, 5611.0, 5561.0, 5267.0, 5415.0, 5497.0, 5691.0, 5418.0, 5442.0, 5672.0, 5320.0, 5721.0, 5424.0, 5528.0, 5475.0, 5573.0, 5509.0, 5287.0, 5664.0, 5473.0, 5505.0, 5511.0, 5717.0, 5301.0, 5632.0, 5580.0, 5317.0, 5593.0, 5439.0, 5667.0, 5564.0, 5646.0, 5345.0, 5673.0, 5422.0, 5352.0, 5310.0, 5285.0, 5499.0, 5338.0, 5440.0
9	5290	9	1	333	1	5305.0, 5355.0, 5312.0, 5546.0, 5588.0, 5505.0, 5625.0, 5451.0, 5337.0, 5291.0, 5566.0, 5646.0, 5468.0, 5535.0, 5284.0, 5596.0, 5373.0, 5486.0, 5603.0, 5408.0, 5432.0, 5282.0, 5716.0, 5478.0, 5457.0, 5713.0, 5348.0, 5369.0, 5482.0, 5557.0, 5466.0, 5378.0, 5357.0, 5300.0, 5327.0, 5502.0, 5568.0, 5366.0, 5636.0, 5512.0, 5382.0, 5257.0, 5319.0, 5633.0, 5422.0, 5630.0, 5268.0, 5299.0, 5684.0, 5627.0, 5407.0, 5372.0, 5479.0, 5530.0, 5298.0,

						5605.0, 5412.0, 5301.0, 5555.0, 5550.0, 5329.0, 5697.0, 5574.0, 5296.0, 5485.0, 5477.0, 5344.0, 5292.0, 5294.0, 5680.0, 5599.0, 5343.0, 5548.0, 5526.0, 5495.0, 5383.0, 5700.0, 5554.0, 5712.0, 5579.0, 5354.0, 5701.0, 5297.0, 5449.0, 5657.0, 5317.0, 5395.0, 5674.0, 5670.0, 5393.0, 5271.0, 5431.0, 5281.0, 5469.0, 5448.0, 5396.0, 5414.0, 5287.0, 5626.0, 5303.0
10	5290	9	1	333	1	5276.0, 5652.0, 5596.0, 5448.0, 5723.0, 5603.0, 5402.0, 5391.0, 5358.0, 5717.0, 5663.0, 5542.0, 5626.0, 5283.0, 5317.0, 5323.0, 5355.0, 5320.0, 5713.0, 5343.0, 5697.0, 5264.0, 5688.0, 5279.0, 5464.0, 5615.0, 5653.0, 5456.0, 5335.0, 5322.0, 5690.0, 5417.0, 5458.0, 5618.0, 5524.0, 5522.0, 5366.0, 5718.0, 5570.0, 5370.0, 5394.0, 5338.0, 5262.0, 5288.0, 5694.0, 5705.0, 5401.0, 5619.0, 5540.0, 5373.0, 5492.0, 5273.0, 5512.0, 5559.0, 5556.0, 5571.0, 5674.0, 5504.0, 5400.0, 5671.0, 5635.0, 5511.0, 5536.0, 5430.0, 5643.0, 5426.0, 5547.0, 5656.0, 5599.0, 5286.0, 5310.0, 5282.0, 5525.0, 5311.0, 5517.0, 5706.0, 5703.0, 5552.0, 5457.0, 5685.0, 5482.0, 5609.0, 5707.0, 5563.0, 5266.0, 5722.0, 5568.0, 5657.0, 5315.0, 5553.0, 5408.0, 5432.0, 5263.0, 5382.0, 5328.0, 5384.0, 5337.0, 5360.0, 5605.0, 5465.0
11	5290	9	1	333	1	5425.0, 5535.0, 5333.0, 5299.0, 5293.0, 5668.0, 5390.0, 5709.0, 5413.0, 5611.0, 5602.0, 5417.0, 5508.0, 5439.0, 5252.0, 5376.0, 5318.0, 5279.0, 5560.0, 5405.0, 5406.0, 5305.0, 5720.0, 5346.0, 5469.0, 5375.0, 5540.0, 5261.0, 5514.0, 5410.0, 5644.0, 5288.0, 5632.0, 5264.0, 5437.0, 5386.0, 5301.0, 5331.0, 5340.0, 5362.0, 5416.0, 5497.0, 5555.0, 5436.0, 5562.0, 5578.0, 5541.0, 5586.0, 5319.0, 5563.0, 5595.0, 5349.0, 5576.0, 5343.0, 5475.0, 5452.0, 5283.0, 5258.0, 5350.0, 5424.0, 5418.0, 5409.0, 5263.0, 5713.0, 5498.0, 5489.0, 5344.0, 5610.0, 5486.0, 5554.0, 5320.0, 5460.0, 5448.0, 5517.0, 5624.0, 5423.0, 5339.0, 5617.0, 5543.0, 5539.0, 5503.0, 5710.0, 5723.0, 5383.0, 5594.0, 5260.0, 5580.0, 5650.0, 5619.0, 5673.0, 5664.0, 5408.0, 5474.0, 5381.0, 5660.0, 5312.0, 5315.0, 5368.0, 5272.0, 5335.0
12	5290	9	1	333	1	5515.0, 5715.0, 5311.0, 5640.0, 5349.0, 5563.0, 5500.0, 5660.0, 5455.0, 5614.0, 5355.0, 5686.0, 5620.0, 5453.0, 5272.0, 5320.0, 5557.0, 5407.0, 5561.0, 5378.0, 5556.0, 5621.0, 5612.0, 5316.0, 5438.0, 5339.0, 5476.0, 5331.0, 5487.0, 5496.0, 5364.0, 5352.0, 5611.0, 5304.0, 5591.0, 5680.0, 5636.0, 5444.0, 5533.0, 5583.0, 5638.0, 5699.0, 5310.0, 5504.0, 5700.0, 5596.0, 5342.0, 5305.0, 5488.0, 5538.0,

						5329.0, 5470.0, 5408.0, 5601.0, 5661.0, 5340.0, 5574.0, 5540.0, 5554.0, 5510.0, 5565.0, 5418.0, 5662.0, 5341.0, 5323.0, 5663.0, 5588.0, 5273.0, 5317.0, 5493.0, 5405.0, 5703.0, 5531.0, 5264.0, 5553.0, 5381.0, 5524.0, 5461.0, 5541.0, 5351.0, 5293.0, 5682.0, 5361.0, 5514.0, 5494.0, 5549.0, 5590.0, 5379.0, 5536.0, 5417.0, 5668.0, 5426.0, 5707.0, 5548.0, 5609.0, 5436.0, 5406.0, 5419.0, 5710.0, 5415.0
13	5290	9	1	333	1	5399.0, 5299.0, 5322.0, 5710.0, 5260.0, 5490.0, 5531.0, 5542.0, 5631.0, 5486.0, 5713.0, 5465.0, 5392.0, 5684.0, 5358.0, 5560.0, 5645.0, 5350.0, 5266.0, 5665.0, 5387.0, 5314.0, 5518.0, 5415.0, 5325.0, 5493.0, 5459.0, 5251.0, 5573.0, 5473.0, 5409.0, 5328.0, 5487.0, 5452.0, 5664.0, 5523.0, 5323.0, 5253.0, 5668.0, 5342.0, 5480.0, 5620.0, 5351.0, 5403.0, 5630.0, 5440.0, 5407.0, 5590.0, 5256.0, 5278.0, 5274.0, 5443.0, 5639.0, 5317.0, 5563.0, 5300.0, 5501.0, 5385.0, 5624.0, 5533.0, 5290.0, 5366.0, 5466.0, 5404.0, 5718.0, 5617.0, 5330.0, 5433.0, 5321.0, 5331.0, 5343.0, 5565.0, 5642.0, 5476.0, 5453.0, 5674.0, 5609.0, 5516.0, 5567.0, 5652.0, 5704.0, 5689.0, 5629.0, 5509.0, 5259.0, 5622.0, 5313.0, 5401.0, 5711.0, 5540.0, 5291.0, 5369.0, 5301.0, 5263.0, 5707.0, 5696.0, 5605.0, 5411.0, 5414.0, 5527.0
14	5290	9	1	333	1	5525.0, 5510.0, 5384.0, 5573.0, 5462.0, 5678.0, 5698.0, 5502.0, 5332.0, 5435.0, 5559.0, 5373.0, 5661.0, 5293.0, 5409.0, 5482.0, 5368.0, 5691.0, 5444.0, 5324.0, 5334.0, 5545.0, 5670.0, 5442.0, 5671.0, 5541.0, 5342.0, 5544.0, 5472.0, 5607.0, 5521.0, 5609.0, 5632.0, 5704.0, 5697.0, 5608.0, 5425.0, 5427.0, 5501.0, 5406.0, 5285.0, 5643.0, 5543.0, 5351.0, 5450.0, 5414.0, 5392.0, 5695.0, 5335.0, 5548.0, 5593.0, 5689.0, 5331.0, 5481.0, 5716.0, 5261.0, 5622.0, 5326.0, 5486.0, 5651.0, 5395.0, 5403.0, 5466.0, 5271.0, 5346.0, 5432.0, 5431.0, 5657.0, 5524.0, 5327.0, 5696.0, 5366.0, 5680.0, 5717.0, 5565.0, 5635.0, 5531.0, 5646.0, 5357.0, 5546.0, 5511.0, 5405.0, 5352.0, 5340.0, 5306.0, 5429.0, 5547.0, 5258.0, 5385.0, 5461.0, 5522.0, 5540.0, 5701.0, 5700.0, 5296.0, 5595.0, 5317.0, 5273.0, 5333.0, 5363.0
15	5290	9	1	333	1	5623.0, 5661.0, 5526.0, 5544.0, 5260.0, 5395.0, 5557.0, 5522.0, 5341.0, 5380.0, 5452.0, 5576.0, 5317.0, 5655.0, 5560.0, 5562.0, 5483.0, 5651.0, 5269.0, 5583.0, 5253.0, 5578.0, 5394.0, 5550.0, 5500.0, 5688.0, 5621.0, 5373.0, 5551.0, 5304.0, 5694.0, 5619.0, 5292.0, 5664.0, 5468.0, 5306.0, 5614.0, 5508.0, 5488.0, 5284.0, 5352.0, 5280.0, 5312.0, 5507.0, 5543.0,

						5297.0, 5530.0, 5251.0, 5325.0, 5417.0, 5495.0, 5553.0, 5313.0, 5421.0, 5489.0, 5355.0, 5425.0, 5399.0, 5715.0, 5587.0, 5592.0, 5538.0, 5262.0, 5636.0, 5569.0, 5288.0, 5264.0, 5321.0, 5698.0, 5430.0, 5601.0, 5570.0, 5506.0, 5329.0, 5622.0, 5379.0, 5499.0, 5475.0, 5319.0, 5498.0, 5384.0, 5462.0, 5512.0, 5428.0, 5716.0, 5533.0, 5487.0, 5450.0, 5571.0, 5299.0, 5545.0, 5339.0, 5361.0, 5490.0, 5392.0, 5407.0, 5567.0, 5594.0, 5662.0, 5459.0
16	5290	9	1	333	1	5472.0, 5570.0, 5299.0, 5557.0, 5601.0, 5497.0, 5528.0, 5277.0, 5499.0, 5569.0, 5583.0, 5470.0, 5427.0, 5703.0, 5316.0, 5450.0, 5699.0, 5589.0, 5674.0, 5349.0, 5372.0, 5280.0, 5310.0, 5314.0, 5670.0, 5660.0, 5385.0, 5661.0, 5596.0, 5351.0, 5471.0, 5536.0, 5400.0, 5270.0, 5655.0, 5389.0, 5374.0, 5619.0, 5460.0, 5632.0, 5253.0, 5441.0, 5355.0, 5680.0, 5285.0, 5309.0, 5616.0, 5565.0, 5721.0, 5256.0, 5686.0, 5546.0, 5421.0, 5525.0, 5506.0, 5604.0, 5343.0, 5411.0, 5418.0, 5558.0, 5657.0, 5414.0, 5440.0, 5498.0, 5454.0, 5422.0, 5507.0, 5500.0, 5517.0, 5606.0, 5462.0, 5554.0, 5252.0, 5250.0, 5618.0, 5386.0, 5332.0, 5479.0, 5340.0, 5335.0, 5552.0, 5284.0, 5694.0, 5383.0, 5289.0, 5461.0, 5271.0, 5591.0, 5701.0, 5382.0, 5553.0, 5708.0, 5534.0, 5327.0, 5448.0, 5313.0, 5486.0, 5257.0, 5562.0, 5520.0
17	5290	9	1	333	1	5558.0, 5514.0, 5316.0, 5561.0, 5346.0, 5253.0, 5497.0, 5622.0, 5492.0, 5607.0, 5434.0, 5662.0, 5445.0, 5673.0, 5683.0, 5301.0, 5268.0, 5394.0, 5349.0, 5340.0, 5563.0, 5411.0, 5441.0, 5408.0, 5256.0, 5309.0, 5586.0, 5667.0, 5564.0, 5307.0, 5393.0, 5712.0, 5332.0, 5590.0, 5630.0, 5409.0, 5526.0, 5611.0, 5621.0, 5689.0, 5263.0, 5643.0, 5482.0, 5250.0, 5687.0, 5313.0, 5619.0, 5457.0, 5318.0, 5320.0, 5440.0, 5430.0, 5616.0, 5254.0, 5305.0, 5432.0, 5296.0, 5402.0, 5557.0, 5581.0, 5312.0, 5716.0, 5523.0, 5723.0, 5273.0, 5724.0, 5627.0, 5259.0, 5521.0, 5587.0, 5416.0, 5542.0, 5419.0, 5644.0, 5471.0, 5483.0, 5303.0, 5443.0, 5503.0, 5493.0, 5602.0, 5624.0, 5395.0, 5460.0, 5508.0, 5266.0, 5494.0, 5258.0, 5325.0, 5476.0, 5620.0, 5614.0, 5715.0, 5664.0, 5525.0, 5371.0, 5385.0, 5703.0, 5613.0, 5568.0
18	5290	9	1	333	1	5255.0, 5304.0, 5486.0, 5396.0, 5504.0, 5313.0, 5419.0, 5471.0, 5380.0, 5561.0, 5460.0, 5452.0, 5526.0, 5584.0, 5550.0, 5482.0, 5407.0, 5586.0, 5532.0, 5685.0, 5358.0, 5610.0, 5503.0, 5540.0, 5480.0, 5581.0, 5498.0, 5714.0, 5568.0, 5718.0, 5389.0, 5592.0, 5707.0, 5260.0, 5347.0, 5292.0, 5307.0, 5291.0, 5594.0, 5595.0,

						5483.0, 5679.0, 5433.0, 5624.0, 5479.0, 5513.0, 5390.0, 5437.0, 5616.0, 5628.0, 5488.0, 5465.0, 5312.0, 5355.0, 5603.0, 5680.0, 5598.0, 5626.0, 5305.0, 5605.0, 5602.0, 5524.0, 5395.0, 5667.0, 5506.0, 5611.0, 5391.0, 5272.0, 5351.0, 5408.0, 5678.0, 5296.0, 5293.0, 5490.0, 5402.0, 5472.0, 5528.0, 5539.0, 5334.0, 5279.0, 5588.0, 5345.0, 5447.0, 5657.0, 5563.0, 5270.0, 5573.0, 5509.0, 5258.0, 5671.0, 5608.0, 5383.0, 5566.0, 5448.0, 5692.0, 5691.0, 5583.0, 5259.0, 5690.0, 5316.0
19	5290	9	1	333	1	5372.0, 5551.0, 5511.0, 5530.0, 5278.0, 5626.0, 5423.0, 5651.0, 5463.0, 5568.0, 5282.0, 5533.0, 5680.0, 5425.0, 5287.0, 5570.0, 5514.0, 5561.0, 5662.0, 5479.0, 5478.0, 5444.0, 5331.0, 5608.0, 5350.0, 5327.0, 5314.0, 5559.0, 5565.0, 5577.0, 5286.0, 5580.0, 5412.0, 5446.0, 5316.0, 5529.0, 5708.0, 5317.0, 5481.0, 5392.0, 5634.0, 5541.0, 5499.0, 5576.0, 5705.0, 5367.0, 5504.0, 5267.0, 5461.0, 5349.0, 5269.0, 5276.0, 5719.0, 5621.0, 5430.0, 5518.0, 5378.0, 5720.0, 5363.0, 5532.0, 5371.0, 5312.0, 5385.0, 5399.0, 5645.0, 5442.0, 5695.0, 5616.0, 5574.0, 5284.0, 5655.0, 5298.0, 5443.0, 5588.0, 5578.0, 5661.0, 5673.0, 5523.0, 5388.0, 5258.0, 5721.0, 5338.0, 5426.0, 5619.0, 5713.0, 5586.0, 5609.0, 5251.0, 5604.0, 5639.0, 5429.0, 5396.0, 5359.0, 5672.0, 5324.0, 5274.0, 5474.0, 5339.0, 5379.0, 5321.0
20	5290	9	1	333	1	5320.0, 5316.0, 5602.0, 5534.0, 5264.0, 5654.0, 5715.0, 5385.0, 5712.0, 5326.0, 5312.0, 5431.0, 5701.0, 5616.0, 5447.0, 5269.0, 5351.0, 5253.0, 5651.0, 5256.0, 5570.0, 5494.0, 5399.0, 5567.0, 5295.0, 5582.0, 5568.0, 5349.0, 5355.0, 5662.0, 5492.0, 5465.0, 5583.0, 5501.0, 5284.0, 5487.0, 5687.0, 5357.0, 5305.0, 5614.0, 5513.0, 5606.0, 5434.0, 5688.0, 5327.0, 5302.0, 5507.0, 5500.0, 5354.0, 5592.0, 5369.0, 5504.0, 5279.0, 5643.0, 5451.0, 5551.0, 5325.0, 5709.0, 5542.0, 5457.0, 5315.0, 5408.0, 5435.0, 5575.0, 5585.0, 5396.0, 5527.0, 5386.0, 5681.0, 5657.0, 5403.0, 5530.0, 5347.0, 5393.0, 5483.0, 5597.0, 5428.0, 5422.0, 5452.0, 5646.0, 5578.0, 5360.0, 5581.0, 5260.0, 5601.0, 5665.0, 5362.0, 5664.0, 5670.0, 5432.0, 5576.0, 5660.0, 5414.0, 5673.0, 5692.0, 5331.0, 5526.0, 5299.0, 5699.0, 5267.0
21	5290	9	1	333	1	5648.0, 5264.0, 5266.0, 5375.0, 5252.0, 5443.0, 5712.0, 5626.0, 5339.0, 5614.0, 5451.0, 5570.0, 5371.0, 5397.0, 5595.0, 5576.0, 5688.0, 5395.0, 5331.0, 5381.0, 5699.0, 5374.0, 5372.0, 5637.0, 5537.0, 5370.0, 5333.0, 5636.0, 5715.0, 5494.0, 5472.0, 5335.0, 5442.0, 5588.0, 5528.0,

						5643.0, 5430.0, 5713.0, 5504.0, 5666.0, 5492.0, 5275.0, 5623.0, 5445.0, 5322.0, 5398.0, 5300.0, 5695.0, 5635.0, 5723.0, 5319.0, 5471.0, 5527.0, 5569.0, 5270.0, 5627.0, 5485.0, 5360.0, 5320.0, 5661.0, 5581.0, 5455.0, 5591.0, 5679.0, 5513.0, 5686.0, 5602.0, 5589.0, 5285.0, 5345.0, 5515.0, 5498.0, 5552.0, 5424.0, 5618.0, 5452.0, 5531.0, 5610.0, 5466.0, 5448.0, 5628.0, 5567.0, 5483.0, 5343.0, 5693.0, 5646.0, 5342.0, 5616.0, 5348.0, 5710.0, 5258.0, 5425.0, 5629.0, 5251.0, 5482.0, 5649.0, 5671.0, 5600.0, 5299.0, 5255.0
22	5290	9	1	333	1	5399.0, 5505.0, 5611.0, 5488.0, 5272.0, 5523.0, 5483.0, 5454.0, 5546.0, 5501.0, 5425.0, 5539.0, 5692.0, 5655.0, 5496.0, 5584.0, 5713.0, 5286.0, 5698.0, 5656.0, 5657.0, 5431.0, 5266.0, 5610.0, 5688.0, 5344.0, 5518.0, 5396.0, 5527.0, 5533.0, 5444.0, 5537.0, 5707.0, 5260.0, 5564.0, 5545.0, 5435.0, 5622.0, 5490.0, 5375.0, 5687.0, 5675.0, 5701.0, 5598.0, 5715.0, 5695.0, 5719.0, 5456.0, 5599.0, 5636.0, 5271.0, 5555.0, 5284.0, 5634.0, 5613.0, 5292.0, 5704.0, 5601.0, 5268.0, 5475.0, 5602.0, 5347.0, 5384.0, 5565.0, 5628.0, 5639.0, 5647.0, 5497.0, 5673.0, 5283.0, 5479.0, 5620.0, 5337.0, 5516.0, 5322.0, 5616.0, 5382.0, 5560.0, 5575.0, 5427.0, 5420.0, 5645.0, 5317.0, 5359.0, 5717.0, 5699.0, 5303.0, 5668.0, 5674.0, 5590.0, 5581.0, 5573.0, 5597.0, 5600.0, 5641.0, 5264.0, 5342.0, 5305.0, 5379.0, 5627.0
23	5290	9	1	333	1	5505.0, 5628.0, 5437.0, 5255.0, 5490.0, 5342.0, 5393.0, 5694.0, 5307.0, 5295.0, 5373.0, 5622.0, 5389.0, 5648.0, 5473.0, 5426.0, 5271.0, 5634.0, 5397.0, 5602.0, 5635.0, 5599.0, 5663.0, 5503.0, 5701.0, 5309.0, 5615.0, 5403.0, 5343.0, 5353.0, 5480.0, 5630.0, 5683.0, 5659.0, 5495.0, 5607.0, 5596.0, 5484.0, 5608.0, 5402.0, 5498.0, 5702.0, 5348.0, 5590.0, 5354.0, 5562.0, 5357.0, 5356.0, 5465.0, 5419.0, 5547.0, 5391.0, 5514.0, 5674.0, 5646.0, 5432.0, 5510.0, 5636.0, 5427.0, 5332.0, 5660.0, 5564.0, 5570.0, 5279.0, 5533.0, 5263.0, 5549.0, 5392.0, 5563.0, 5706.0, 5286.0, 5317.0, 5262.0, 5569.0, 5270.0, 5289.0, 5588.0, 5268.0, 5292.0, 5619.0, 5443.0, 5461.0, 5487.0, 5531.0, 5448.0, 5715.0, 5609.0, 5698.0, 5281.0, 5436.0, 5512.0, 5313.0, 5676.0, 5463.0, 5687.0, 5453.0, 5573.0, 5521.0, 5298.0, 5554.0
24	5290	9	1	333	1	5477.0, 5295.0, 5293.0, 5597.0, 5573.0, 5485.0, 5713.0, 5426.0, 5336.0, 5297.0, 5536.0, 5497.0, 5504.0, 5350.0, 5421.0, 5547.0, 5590.0, 5631.0, 5471.0, 5700.0, 5482.0, 5638.0, 5436.0, 5321.0, 5533.0, 5699.0, 5424.0, 5507.0, 5300.0, 5592.0,

						5394.0, 5608.0, 5467.0, 5604.0, 5652.0, 5689.0, 5427.0, 5705.0, 5428.0, 5443.0, 5658.0, 5644.0, 5543.0, 5386.0, 5286.0, 5603.0, 5672.0, 5353.0, 5583.0, 5582.0, 5305.0, 5317.0, 5720.0, 5683.0, 5419.0, 5715.0, 5694.0, 5487.0, 5335.0, 5375.0, 5410.0, 5668.0, 5256.0, 5338.0, 5528.0, 5709.0, 5304.0, 5576.0, 5275.0, 5605.0, 5660.0, 5599.0, 5451.0, 5372.0, 5625.0, 5393.0, 5491.0, 5535.0, 5361.0, 5415.0, 5289.0, 5545.0, 5561.0, 5351.0, 5370.0, 5288.0, 5703.0, 5381.0, 5489.0, 5549.0, 5312.0, 5430.0, 5714.0, 5371.0, 5648.0, 5609.0, 5567.0, 5553.0, 5618.0, 5440.0
25	5290	9	1	333	1	5281.0, 5401.0, 5442.0, 5265.0, 5304.0, 5565.0, 5343.0, 5331.0, 5280.0, 5579.0, 5440.0, 5498.0, 5264.0, 5535.0, 5355.0, 5483.0, 5618.0, 5412.0, 5358.0, 5363.0, 5362.0, 5486.0, 5540.0, 5376.0, 5474.0, 5398.0, 5364.0, 5424.0, 5335.0, 5608.0, 5476.0, 5624.0, 5494.0, 5633.0, 5298.0, 5333.0, 5674.0, 5379.0, 5416.0, 5683.0, 5713.0, 5329.0, 5643.0, 5507.0, 5277.0, 5327.0, 5687.0, 5455.0, 5610.0, 5268.0, 5448.0, 5551.0, 5603.0, 5314.0, 5693.0, 5640.0, 5569.0, 5546.0, 5563.0, 5511.0, 5615.0, 5432.0, 5344.0, 5322.0, 5372.0, 5350.0, 5261.0, 5536.0, 5641.0, 5625.0, 5345.0, 5601.0, 5572.0, 5698.0, 5328.0, 5671.0, 5357.0, 5444.0, 5300.0, 5503.0, 5433.0, 5592.0, 5311.0, 5673.0, 5645.0, 5595.0, 5337.0, 5611.0, 5471.0, 5368.0, 5295.0, 5676.0, 5458.0, 5707.0, 5699.0, 5382.0, 5270.0, 5562.0, 5667.0, 5669.0
26	5290	9	1	333	1	5349.0, 5592.0, 5466.0, 5416.0, 5704.0, 5527.0, 5545.0, 5414.0, 5454.0, 5684.0, 5388.0, 5619.0, 5325.0, 5579.0, 5605.0, 5700.0, 5606.0, 5682.0, 5625.0, 5603.0, 5425.0, 5269.0, 5295.0, 5551.0, 5428.0, 5470.0, 5413.0, 5366.0, 5513.0, 5315.0, 5508.0, 5709.0, 5600.0, 5297.0, 5526.0, 5633.0, 5335.0, 5307.0, 5396.0, 5480.0, 5502.0, 5630.0, 5608.0, 5634.0, 5275.0, 5602.0, 5440.0, 5615.0, 5613.0, 5544.0, 5512.0, 5656.0, 5288.0, 5519.0, 5391.0, 5399.0, 5493.0, 5723.0, 5648.0, 5540.0, 5260.0, 5304.0, 5351.0, 5350.0, 5671.0, 5591.0, 5268.0, 5680.0, 5666.0, 5429.0, 5665.0, 5598.0, 5320.0, 5394.0, 5536.0, 5501.0, 5703.0, 5554.0, 5659.0, 5385.0, 5290.0, 5495.0, 5450.0, 5660.0, 5524.0, 5372.0, 5259.0, 5587.0, 5614.0, 5716.0, 5355.0, 5312.0, 5407.0, 5532.0, 5379.0, 5610.0, 5264.0, 5507.0, 5712.0, 5263.0
27	5290	9	1	333	1	5669.0, 5298.0, 5614.0, 5626.0, 5531.0, 5329.0, 5712.0, 5480.0, 5261.0, 5386.0, 5376.0, 5297.0, 5715.0, 5720.0, 5404.0, 5442.0, 5566.0, 5491.0, 5698.0, 5495.0, 5335.0, 5622.0, 5623.0, 5598.0, 5551.0,

						5645.0, 5357.0, 5320.0, 5368.0, 5446.0, 5290.0, 5291.0, 5525.0, 5560.0, 5470.0, 5251.0, 5694.0, 5321.0, 5624.0, 5299.0, 5546.0, 5252.0, 5594.0, 5522.0, 5483.0, 5558.0, 5445.0, 5484.0, 5415.0, 5534.0, 5671.0, 5664.0, 5360.0, 5416.0, 5588.0, 5255.0, 5307.0, 5636.0, 5616.0, 5706.0, 5601.0, 5695.0, 5277.0, 5552.0, 5425.0, 5496.0, 5553.0, 5707.0, 5380.0, 5268.0, 5582.0, 5665.0, 5619.0, 5631.0, 5567.0, 5300.0, 5482.0, 5283.0, 5324.0, 5638.0, 5689.0, 5431.0, 5596.0, 5615.0, 5490.0, 5284.0, 5672.0, 5602.0, 5465.0, 5654.0, 5260.0, 5263.0, 5317.0, 5279.0, 5548.0, 5459.0, 5395.0, 5398.0, 5309.0, 5281.0
28	5290	9	1	333	1	5706.0, 5290.0, 5547.0, 5401.0, 5625.0, 5433.0, 5583.0, 5577.0, 5313.0, 5501.0, 5406.0, 5255.0, 5544.0, 5636.0, 5292.0, 5402.0, 5463.0, 5524.0, 5687.0, 5413.0, 5558.0, 5700.0, 5502.0, 5363.0, 5556.0, 5633.0, 5287.0, 5387.0, 5298.0, 5480.0, 5686.0, 5702.0, 5670.0, 5674.0, 5360.0, 5613.0, 5612.0, 5549.0, 5677.0, 5597.0, 5346.0, 5551.0, 5473.0, 5356.0, 5374.0, 5390.0, 5321.0, 5384.0, 5482.0, 5587.0, 5312.0, 5591.0, 5410.0, 5688.0, 5578.0, 5671.0, 5510.0, 5352.0, 5466.0, 5296.0, 5332.0, 5334.0, 5483.0, 5400.0, 5675.0, 5367.0, 5498.0, 5461.0, 5609.0, 5717.0, 5622.0, 5437.0, 5546.0, 5411.0, 5288.0, 5268.0, 5371.0, 5598.0, 5596.0, 5263.0, 5530.0, 5415.0, 5673.0, 5534.0, 5545.0, 5345.0, 5452.0, 5533.0, 5639.0, 5341.0, 5325.0, 5711.0, 5508.0, 5503.0, 5569.0, 5372.0, 5414.0, 5337.0, 5707.0, 5647.0
29	5290	9	1	333	1	5706.0, 5372.0, 5336.0, 5437.0, 5580.0, 5411.0, 5519.0, 5536.0, 5524.0, 5573.0, 5394.0, 5277.0, 5393.0, 5330.0, 5695.0, 5534.0, 5540.0, 5607.0, 5585.0, 5350.0, 5574.0, 5535.0, 5493.0, 5600.0, 5599.0, 5310.0, 5294.0, 5433.0, 5684.0, 5453.0, 5575.0, 5696.0, 5416.0, 5658.0, 5340.0, 5309.0, 5263.0, 5652.0, 5423.0, 5542.0, 5719.0, 5505.0, 5500.0, 5479.0, 5440.0, 5619.0, 5621.0, 5250.0, 5392.0, 5366.0, 5396.0, 5460.0, 5465.0, 5590.0, 5541.0, 5594.0, 5445.0, 5410.0, 5379.0, 5676.0, 5482.0, 5533.0, 5334.0, 5288.0, 5723.0, 5317.0, 5363.0, 5388.0, 5630.0, 5707.0, 5697.0, 5520.0, 5582.0, 5329.0, 5290.0, 5271.0, 5713.0, 5326.0, 5286.0, 5434.0, 5328.0, 5555.0, 5342.0, 5686.0, 5466.0, 5522.0, 5407.0, 5527.0, 5648.0, 5635.0, 5448.0, 5274.0, 5650.0, 5381.0, 5597.0, 5558.0, 5564.0, 5507.0, 5626.0, 5546.0
30	5290	9	1	333	1	5410.0, 5526.0, 5567.0, 5303.0, 5481.0, 5638.0, 5333.0, 5510.0, 5278.0, 5644.0, 5320.0, 5389.0, 5592.0, 5692.0, 5404.0, 5708.0, 5373.0, 5484.0, 5362.0, 5722.0,



						5364.0, 5319.0, 5369.0, 5565.0, 5277.0, 5282.0, 5454.0, 5311.0, 5602.0, 5292.0, 5361.0, 5487.0, 5392.0, 5491.0, 5253.0, 5715.0, 5433.0, 5275.0, 5317.0, 5587.0, 5485.0, 5654.0, 5453.0, 5570.0, 5554.0, 5658.0, 5283.0, 5538.0, 5495.0, 5458.0, 5349.0, 5718.0, 5496.0, 5502.0, 5271.0, 5604.0, 5577.0, 5315.0, 5411.0, 5618.0, 5678.0, 5476.0, 5508.0, 5716.0, 5330.0, 5486.0, 5637.0, 5629.0, 5324.0, 5291.0, 5501.0, 5616.0, 5569.0, 5588.0, 5385.0, 5537.0, 5613.0, 5492.0, 5668.0, 5395.0, 5321.0, 5260.0, 5288.0, 5563.0, 5514.0, 5306.0, 5262.0, 5269.0, 5360.0, 5272.0, 5267.0, 5693.0, 5650.0, 5585.0, 5451.0, 5325.0, 5489.0, 5417.0, 5258.0, 5506.0
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**80MHz**

<b>Radar SignalType</b>	<b>Waveform/Trial Number</b>	<b>Detection (%)</b>	<b>Limit (%)</b>	<b>Pass/Fail</b>
<b>Type 1A</b>	15	100%	60%	pass
<b>Type 1B</b>	15	93.33%	60%	pass
<b>Type 2</b>	30	100 %	60%	Pass
<b>Type 3</b>	30	93.3 %	60%	Pass
<b>Type 4</b>	30	93.3 %	60%	Pass
<b>Aggregate (Type1 to 4)</b>	120	95.83 %	80%	Pass
<b>Type 5</b>	120	100 %	80%	Pass
<b>Type 6</b>	30	100 %	70%	Pass

Please refer to the following statistical tables:

**5290MHz:****Radar Type 1A Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	57	1	938	1
2	5290	86	1	618	1
3	5290	83	1	638	1
4	5290	74	1	718	1
5	5290	95	1	558	1
6	5290	92	1	578	1
7	5290	67	1	798	1
8	5290	70	1	758	1
9	5290	72	1	738	1
10	5290	89	1	598	1
11	5290	58	1	918	1
12	5290	65	1	818	1
13	5290	63	1	838	1
14	5290	78	1	678	1
15	5290	81	1	658	1
Detection Percentage: 100% (>60%)					

**Radar Type 1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	28	1	1953	1
2	5290	54	1	984	1
3	5290	70	1	764	1
4	5290	31	1	1740	1
5	5290	34	1	1568	1
6	5290	18	1	3047	1
7	5290	90	1	588	1
8	5290	61	1	879	1
9	5290	35	1	1516	1
10	5290	27	1	1980	0
11	5290	87	1	612	1
12	5290	60	1	884	1
13	5290	33	1	1627	1
14	5290	21	1	2570	1
15	5290	24	1	2216	1
Detection Percentage: 93.33 % (>60%)					

**Radar Type 2 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	24	3.2	193	1
2	5290	29	3.5	170	1
3	5290	23	2.3	211	1
4	5290	25	4.7	170	1
5	5290	29	1.7	228	1
6	5290	27	1.3	201	1
7	5290	26	2.8	223	1
8	5290	25	4	196	1
9	5290	29	1.8	220	1
10	5290	23	1.4	196	1
11	5290	27	2	218	1
12	5290	24	3.5	207	1
13	5290	27	4.3	155	1
14	5290	25	3.3	216	1
15	5290	27	3.9	220	1
16	5290	26	1.2	159	1
17	5290	26	2.9	219	1
18	5290	27	4.8	206	1
19	5290	28	1.2	157	1
20	5290	25	1.7	179	1
21	5290	25	1	230	1
22	5290	24	3.6	213	1
23	5290	25	4.7	162	1
24	5290	24	4.8	171	1
25	5290	25	2.7	183	1
26	5290	25	2.9	219	1
27	5290	23	4	201	1
28	5290	26	1.6	205	1
29	5290	26	2.8	220	1
30	5290	28	4.2	222	1
<b>Detection Percentage: 100 % (&gt;60%)</b>					

**Radar Type 3 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μS)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5290	17	7.7	495	1
2	5290	17	8.1	404	1
3	5290	18	8.7	380	1
4	5290	17	8	233	0
5	5290	16	9.2	460	1
6	5290	18	6.6	373	0
7	5290	16	9.5	231	1
8	5290	17	8.4	355	1
9	5290	18	6.7	269	1
10	5290	16	7.9	421	1
11	5290	18	9.4	454	1
12	5290	18	7.6	460	1
13	5290	18	6.1	235	1
14	5290	18	8.8	346	1
15	5290	17	9.1	454	1
16	5290	18	8.6	441	1
17	5290	18	9.1	219	1
18	5290	16	7.2	498	1
19	5290	16	8.4	452	1
20	5290	17	7.2	248	1
21	5290	17	6.3	428	1
22	5290	16	9.8	350	1
23	5290	17	8.8	355	1
24	5290	17	6	272	1
25	5290	17	6.9	349	1
26	5290	16	7.5	407	1
27	5290	18	7.6	449	1
28	5290	16	7.1	416	1
29	5290	18	7.4	247	1
30	5290	18	7.5	498	1
<b>Detection Percentage: 93.33% (&gt;60%)</b>					

**Radar Type 4 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μS)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5290	12	14.8	305	1
2	5290	13	15.8	246	1
3	5290	14	17.4	284	1
4	5290	15	12	236	1
5	5290	12	12.1	463	1
6	5290	16	15.1	346	1
7	5290	14	15.4	368	0
8	5290	15	13.2	366	1
9	5290	13	15.4	335	1
10	5290	15	18.9	261	1
11	5290	14	15.6	409	1
12	5290	16	19.5	235	1
13	5290	14	15.5	246	1
14	5290	14	13.2	231	1
15	5290	13	18.9	300	1
16	5290	15	15.7	320	1
17	5290	15	13	214	1
18	5290	13	14.5	295	1
19	5290	13	11.7	278	1
20	5290	12	19.4	311	1
21	5290	16	13.1	235	1
22	5290	13	13.4	406	0
23	5290	14	17.1	455	1
24	5290	12	16.4	445	1
25	5290	14	19.1	254	1
26	5290	16	15	458	1
27	5290	13	16.3	407	1
28	5290	13	16.3	362	1
29	5290	14	17.8	238	1
30	5290	12	14.4	220	1
<b>Detection Percentage: 93.3% (&gt;60%)</b>					

**Radar Type 5 Case 1 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5290.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	59.8	1065		0.388838	1
1	3	6	95.8	1866	1680	1.06982	
2	2	6	69.2	1074		1.947486	
3	3	6	83.7	1514	1877	2.283057	
4	2	6	73.2	1153		3.081657	
5	2	6	52.2	1019		3.854605	
6	1	6	68.1			4.11197	
7	2	6	80.5	1905		5.038864	
8	2	6	78.6	1195		5.928999	
9	1	6	50.5			6.200139	
10	2	6	63.1	1588		7.28091	
11	1	6	73.3			7.80635	
12	1	6	61.6			8.64545	
13	1	6	77.6			8.751958	
14	2	6	61.5	1524		9.838467	
15	2	6	86.8	1642		10.01655	
16	2	6	54.6	1233		10.8842	
17	1	6	89			11.89843	

Statistics 2 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	53.9	1905		0.691958	1
1	2	10	68	1084		0.909714	
2	2	10	59.8	1550		2.084797	
3	1	10	80.4			2.670093	
4	2	10	61	1283		3.798333	
5	1	10	80.5			4.043794	
6	2	10	66.4	1991		5.435873	
7	2	10	68.7	1513		5.789839	
8	2	10	78.1	1798		6.622323	
9	2	10	94.8	1746		7.223117	
10	2	10	81.1	1126		8.781481	
11	2	10	62.6	1673		9.114876	
12	3	10	79.7	1843	1145	9.743312	
13	1	10	63.4			10.64589	
14	1	10	79.9			11.64297	

## Statistics 3 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	13	83.8			0.634313	1
1	2	13	67.9	1225		2.303861	
2	2	13	91.1	1729		3.575446	
3	2	13	54.8	1309		4.506066	
4	3	13	94.5	1337	1595	4.896184	
5	1	13	65			6.314546	
6	3	13	88.7	1381	1847	7.438955	
7	2	13	70.8	1706		9.241354	
8	2	13	71.5	1057		10.37974	
9	3	13	95.6	1828	1102	11.28235	

## Statistics 4 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	13	60.4	1006	1428	0.715091	1
1	1	13	70			1.298813	
2	2	13	73.3	1306		2.112909	
3	1	13	72.3			2.787049	
4	1	13	99.1			3.818198	
5	1	13	83.4			4.201122	
6	1	13	96			5.283475	
7	3	13	78.1	1943	1661	5.858548	
8	3	13	95.3	1590	1458	6.994833	
9	1	13	75.4			7.770436	
10	2	13	55	1934		8.509783	
11	2	13	75	1237		9.104216	
12	3	13	92.4	1661	1240	9.961289	
13	3	13	91	1158	1227	10.41466	
14	3	13	65.2	1924	1434	11.73302	



Statistics 5(ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	7	62.9			0.222554	1
1	1	7	83.2			0.88806	
2	2	7	94.7	1097		1.800356	
3	1	7	54.6			2.564487	
4	2	7	78.9	1364		3.794803	
5	3	7	85.8	1514	1559	4.141603	
6	3	7	63.5	1093	1925	5.012878	
7	2	7	52.8	1178		6.211151	
8	2	7	68.6	1624		6.779356	
9	3	7	52.9	1667	1939	7.683792	
10	2	7	57.5	1544		8.259728	
11	3	7	78.2	1082	1458	8.904547	
12	3	7	62.4	1209	1237	10.1351	
13	2	7	70	1702		10.45873	
14	2	7	91.2	1365		11.63556	

Statistics 6 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	8	74.6	1744	1283	0.42722	1
1	2	8	54.7	1171		0.870712	
2	2	8	81	1895		1.366122	
3	2	8	88.8	1799		2.132475	
4	3	8	51.6	1128	1720	3.048786	
5	2	8	94.6	1597		3.458213	
6	1	8	90.7			4.279647	
7	2	8	93.8	1196		5.016625	
8	2	8	74.7	1309		5.133217	
9	1	8	77.8			6.26624	
10	2	8	98.8	1368		6.872907	
11	2	8	99.2	1911		7.413367	
12	2	8	52.7	1862		8.177379	
13	2	8	74.2	1166		8.370988	
14	2	8	82.9	1230		9.202937	
15	1	8	93.4			9.542236	
16	3	8	68.6	1045	1912	10.50508	
17	3	8	55.6	1730	1953	10.83931	
18	2	8	75	1756		11.72529	

Statistics 7(ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	13	90.8	1041	1892	1.063836	1
1	2	13	70.1	1377		2.362526	
2	1	13	94			3.201266	
3	3	13	69.5	1946	1103	4.405795	
4	3	13	69.1	1885	1495	6.645487	
5	3	13	94.2	1682	1815	6.811844	
6	3	13	75	1024	1061	9.003355	
7	3	13	79.4	1551	1157	10.1438	
8	3	13	64	1729	1483	11.77453	

Statistics 8 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	10	81			0.364595	1
1	1	10	86.8			0.99108	
2	3	10	56	1228	1283	1.836795	
3	2	10	51.5	1112		2.294887	
4	2	10	83.3	1296		2.646972	
5	1	10	78.1			3.278748	
6	1	10	60.3			4.294054	
7	3	10	97.1	1430	1880	4.768963	
8	1	10	83.3			5.508522	
9	2	10	84.7	1200		5.795732	
10	2	10	67.2	1567		6.334262	
11	2	10	52.5	1638		7.123594	
12	2	10	52.7	1827		7.593987	
13	3	10	52.2	1628	1709	8.367348	
14	3	10	93	1462	1046	8.992643	
15	1	10	76.8			9.711904	
16	2	10	93.9	1287		10.3766	
17	1	10	81.5			10.81236	
18	2	10	98.9	1679		11.89898	

Statistics 9 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	15	73.7	1544	1206	0.18791	1
1	1	15	64.4			0.951857	
2	2	15	76	1560		1.88639	
3	1	15	96.3			2.246311	
4	2	15	74.2	1072		2.719378	
5	3	15	55.5	1881	1037	3.868368	
6	2	15	72.9	1516		4.412054	
7	1	15	55.2			5.19954	
8	2	15	64.5	1937		5.767527	
9	3	15	80.8	1981	1241	6.345262	
10	3	15	59.5	1039	1577	7.247232	
11	1	15	61.5			7.993416	
12	2	15	77.5	1456		8.580124	
13	3	15	84	1947	1496	9.227856	
14	2	15	60.8	1489		9.605262	
15	2	15	74.9	1466		10.47271	
16	2	15	99.9	1744		11.21315	
17	3	15	85.8	1443	1693	11.43513	

Statistics 10 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	8	87.5	1905		0.146854	1
1	1	8	78.7			0.738861	
2	3	8	67.8	1733	1349	1.98998	
3	2	8	52.7	1654		2.592348	
4	3	8	60.5	1248	1520	2.945439	
5	2	8	96.6	1387		3.687332	
6	2	8	87.6	1043		4.436517	
7	3	8	62.6	1370	1571	4.804509	
8	3	8	68.7	1042	1709	5.964777	
9	2	8	81.1	1753		6.019904	
10	2	8	76.7	1443		6.780093	
11	1	8	52.8			7.506595	
12	2	8	51.4	1439		8.439915	
13	2	8	62.4	1608		9.127066	
14	1	8	98			9.943265	
15	3	8	53.7	1112	1988	10.07381	
16	3	8	71.9	1710	1194	11.12034	
17	1	8	64.5			11.67022	

**Radar Type 5 Case 2 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5258.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	14	59.9	1602	1580	0.118471	1
1	2	14	75.7	1256		1.387068	
2	1	14	73.3			2.071659	
3	3	14	85.5	1865	1587	3.268963	
4	2	14	93.7	1888		4.231817	
5	3	14	67.1	1871	1092	5.280313	
6	2	14	50.8	1609		5.677413	
7	1	14	71.8			6.820801	
8	3	14	86.5	1356	1243	8.045741	
9	2	14	68.6	1680		8.332013	
10	1	14	64.4			9.535296	
11	2	14	52.3	1749		10.67221	
12	2	14	81	1774		11.41073	

Statistics 2 (ChirpCenter Frequency: 5253.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	7	81.3			0.085455	1
1	3	7	52.6	1107	1254	1.282617	
2	2	7	54.7	1529		2.184214	
3	2	7	52.3	1604		3.729417	
4	2	7	98.6	1499		4.101659	
5	2	7	65	1581		5.337252	
6	1	7	94.1			6.109754	
7	2	7	93.5	1200		7.796746	
8	1	7	63.6			8.189087	
9	2	7	86.3	1237		9.537586	
10	2	7	87.9	1170		10.61964	
11	3	7	84.8	1416	1645	11.00149	

## Statistics 3 (ChirpCenter Frequency: 5255.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	53.6	1609		0.299289	1
1	1	13	86.5			2.002357	
2	2	13	78.9	1267		3.558022	
3	2	13	85.5	1469		4.22142	
4	3	13	99.1	1217	1510	5.563346	
5	1	13	73.1			6.949567	
6	2	13	64.1	1196		8.074581	
7	2	13	59.2	1605		9.423621	
8	3	13	74.2	1593	1015	9.881085	
9	2	13	61.5	1868		11.69519	

## Statistics 4 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	63.6	1685		0.837719	1
1	2	16	96.9	1933		1.619933	
2	2	16	84	1842		2.986787	
3	3	16	97.4	1334	1908	4.792155	
4	2	16	57.9	1016		5.719883	
5	2	16	60.9	1190		6.976496	
6	2	16	99	1405		8.173247	
7	1	16	59.9			8.569964	
8	2	16	78.6	1767		10.33242	
9	3	16	70.6	1617	1453	11.75173	

Statistics 5 (ChirpCenter Frequency: 5253.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	8	68.1	1256	1949	0.085711	1
1	2	8	87.7	1268		1.329356	
2	2	8	81.3	1117		1.989659	
3	3	8	63.7	1559	1437	2.489479	
4	2	8	56.8	1365		3.455732	
5	2	8	64	1226		3.912796	
6	2	8	52.1	1219		4.91939	
7	2	8	63.2	1690		5.58608	
8	1	8	57.1			6.060312	
9	2	8	90.3	1453		6.757699	
10	1	8	70.9			7.394479	
11	2	8	65.3	1165		8.111135	
12	1	8	60.5			8.934987	
13	1	8	85.9			9.667066	
14	3	8	51.1	1185	1015	10.11321	
15	2	8	52.8	1039		10.76394	
16	3	8	91.1	1700	1756	11.50983	

Statistics 6 (ChirpCenter Frequency: 5253.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	8	55			0.114327	1
1	3	8	84.3	1083	1673	1.219773	
2	2	8	84.6	1401		1.62772	
3	3	8	74.5	1632	1463	2.27831	
4	1	8	62.6			2.926391	
5	1	8	66.6			3.849838	
6	1	8	96.5			4.017381	
7	2	8	93.8	1988		5.077159	
8	1	8	70.4			5.705671	
9	2	8	71.7	1631		6.183562	
10	2	8	77.5	1573		7.06331	
11	2	8	87.5	1430		7.406567	
12	1	8	54.3			8.447637	
13	2	8	61	1766		9.137514	
14	2	8	92.9	1421		9.38953	
15	2	8	57.2	1878		10.09186	
16	2	8	74.6	1100		10.99264	
17	2	8	98.6	1765		11.73225	

Statistics 7 (ChirpCenter Frequency: 5252.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	6	98.8			0.637768	1
1	1	6	51.8			1.000483	
2	2	6	78.2	1933		2.13694	
3	3	6	71.5	1644	1406	2.888856	
4	3	6	96.6	1891	1628	4.192101	
5	2	6	72.6	1592		5.032855	
6	1	6	67.2			5.810398	
7	2	6	61.8	1843		6.730929	
8	1	6	51.1			8.105676	
9	3	6	92.8	1672	1731	9.116104	
10	2	6	57.7	1874		9.791691	
11	2	6	85.6	1245		10.68728	
12	3	6	92.5	1218	1713	11.21409	

Statistics 8 (ChirpCenter Frequency: 5258.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	19	78.8	1471		0.964999	1
1	3	19	96.9	1043	1734	1.249903	
2	3	19	62.6	1633	1145	2.473647	
3	1	19	55			3.967434	
4	1	19	78.5			5.957844	
5	2	19	88.3	1616		6.167419	
6	2	19	62.3	1739		7.764566	
7	1	19	91.8			9.030787	
8	2	19	57.3	1771		10.37146	
9	1	19	56.4			11.19902	

Statistics 9 (ChirpCenter Frequency: 5255.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	73.8	1138		0.401286	1
1	2	12	73.7	1567		0.902337	
2	3	12	77.7	1846	1746	1.635893	
3	1	12	70.9			1.998236	
4	2	12	54.4	1244		2.875179	
5	2	12	91.5	1689		3.477986	
6	3	12	69.1	1172	1429	3.943801	
7	3	12	90.5	1649	1682	4.622638	
8	2	12	95.2	1504		5.093257	
9	2	12	82.5	1182		5.549273	
10	2	12	58.4	1002		6.294015	
11	2	12	89.7	1987		6.929973	
12	2	12	86.6	1575		7.641947	
13	2	12	90.1	1164		8.217298	
14	1	12	83			8.921216	
15	2	12	51.7	1436		9.496198	
16	2	12	91	1981		9.633965	
17	1	12	98.4			10.36001	
18	3	12	53.5	1937	1543	11.20574	
19	2	12	92.5	1868		11.8435	

Statistics 10 (ChirpCenter Frequency: 5254.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	80.7	1875		0.391705	1
1	2	10	88.2	1050		2.615207	
2	2	10	74	1911		3.059795	
3	3	10	81.9	1150	1272	5.03919	
4	1	10	83.6			6.865412	
5	1	10	99.3			8.8258	
6	1	10	64			9.375971	
7	1	10	81.3			11.4266	



**Radar Type 5 Case 3 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	17	82.5	1242		0.481353	1
1	3	17	68	1518	1570	0.794422	
2	2	17	87.2	1305		1.490316	
3	1	17	56.3			2.255583	
4	3	17	62.9	1301	1694	2.8085	
5	1	17	96.7			3.039437	
6	2	17	64.3	1979		4.14624	
7	2	17	73.9	1237		4.477272	
8	1	17	89.8			5.318922	
9	1	17	71.4			5.948551	
10	1	17	65.7			6.121346	
11	3	17	76.1	1606	1329	6.989496	
12	3	17	58.8	1154	1262	7.304731	
13	3	17	57	1591	1415	7.845283	
14	1	17	54.1			8.577879	
15	3	17	57.6	1280	1671	9.343525	
16	2	17	73.7	1076		9.656546	
17	1	17	60.1			10.23972	
18	3	17	72	1787	1448	10.90171	
19	2	17	63.4	1506		11.5903	

Statistics 2 (ChirpCenter Frequency: 5328.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	6	63.6			0.449471	1
1	2	6	56.3	1365		1.97628	
2	2	6	61.1	1813		2.850545	
3	3	6	62.6	1522	1175	3.360465	
4	2	6	92.1	1982		4.726708	
5	3	6	63.9	1355	1790	5.937696	
6	1	6	93.2			6.704195	
7	1	6	94.8			7.543825	
8	2	6	98.7	1038		8.374385	
9	1	6	96.1			9.422383	
10	1	6	82.9			10.6619	
11	3	6	94.7	1214	1947	11.98575	

## Statistics 3 (ChirpCenter Frequency: 5328.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	85	1898		0.012215	1
1	1	6	82.4			0.95567	
2	2	6	93.8	1557		2.206062	
3	3	6	64.6	1171	1039	2.548078	
4	3	6	73.4	1493	1969	3.868562	
5	2	6	64.8	1548		4.784121	
6	2	6	71.3	1710		5.548187	
7	2	6	50.2	1064		6.323853	
8	2	6	87.7	1808		7.194648	
9	1	6	50.2			7.600707	
10	2	6	94.7	1153		8.249328	
11	1	6	94.4			8.984443	
12	2	6	87.4	1114		9.751939	
13	3	6	78.3	1685	1929	10.77773	
14	3	6	76.7	1772	1005	11.35167	

## Statistics 4 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	93.5	1715		0.483108	1
1	2	16	81.6	1599		1.240148	
2	2	16	70.3	1789		1.901901	
3	1	16	91.1			2.627753	
4	1	16	55.1			4.209109	
5	1	16	71.5			4.459517	
6	2	16	92.9	1065		5.846374	
7	2	16	73.7	1662		6.335096	
8	2	16	52.2	1462		7.123165	
9	3	16	50.3	1748	1579	8.433864	
10	3	16	56.6	1672	1112	9.02498	
11	2	16	53.9	1420		9.828179	
12	2	16	85	1295		10.48358	
13	2	16	94.1	1681		11.57242	

Statistics 5 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	7	52.2	1700	1423	0.478828	1
1	2	7	57.4	1090		1.388138	
2	2	7	80.6	1750		1.999662	
3	3	7	87	1877	1022	2.809566	
4	3	7	69.5	1685	1575	3.597454	
5	2	7	88	1323		4.808849	
6	3	7	54	1167	1175	5.752621	
7	3	7	77.6	1774	1299	6.132432	
8	2	7	90.9	1104		7.565255	
9	3	7	60.1	1863	1232	7.971602	
10	1	7	64			9.05023	
11	3	7	90.1	1860	1588	9.452497	
12	3	7	63.6	1439	1187	10.57085	
13	2	7	91.9	1411		11.66711	

Statistics 6 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	14	88.3			0.519012	1
1	2	14	51.6	1523		0.969385	
2	1	14	97.2			1.668727	
3	1	14	62.5			2.290351	
4	2	14	57.6	1702		3.292316	
5	2	14	59.8	1978		4.224725	
6	3	14	68.1	1832	1119	4.606072	
7	3	14	79.5	1385	1133	5.487319	
8	1	14	80.7			5.665905	
9	2	14	67.3	1405		6.442484	
10	2	14	67.4	1622		7.700951	
11	2	14	100	1401		8.313895	
12	3	14	60.1	1695	1820	8.603527	
13	3	14	94.1	1917	1854	9.548625	
14	3	14	65.8	1293	1405	10.33828	
15	2	14	84.3	1110		11.1404	
16	1	14	59.2			11.42424	

Statistics 7 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	16	81.2			0.576385	1
1	3	16	83.6	1656	1061	1.803011	
2	2	16	62	1428		2.598862	
3	2	16	68.2	1717		2.903931	
4	1	16	65.5			4.355345	
5	1	16	96.2			5.06015	
6	2	16	56.8	1835		6.191472	
7	2	16	69.7	1993		6.77847	
8	2	16	79	1637		7.713973	
9	2	16	71.3	1529		9.097638	
10	2	16	84.8	1308		10.05054	
11	1	16	72.5			10.2993	
12	3	16	79	1808	1080	11.43598	

Statistics 8 (ChirpCenter Frequency: 5326.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	9	50.9	1144	1228	0.781384	1
1	3	9	66.2	1136	1113	1.30309	
2	2	9	64.1	1738		2.138824	
3	2	9	78.4	1851		3.001011	
4	2	9	80.3	1253		4.375547	
5	2	9	71.9	1857		4.986128	
6	1	9	87.4			6.073026	
7	1	9	85			6.944283	
8	2	9	69.5	1116		7.723123	
9	2	9	54.2	1304		9.07409	
10	2	9	79.1	1314		9.783665	
11	3	9	86.5	1696	1053	10.59427	
12	2	9	59.1	1742		11.91543	

## Statistics 9 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	18	56.7	1261		0.093617	1
1	3	18	87.8	1869	1807	1.877684	
2	2	18	55.9	1278		3.633026	
3	2	18	96.2	1252		4.041941	
4	3	18	72.1	1233	1825	6.570414	
5	2	18	78.2	1749		7.452537	
6	2	18	92.2	1274		9.262985	
7	2	18	55.8	1805		10.05667	
8	3	18	65.3	1495	1408	11.77767	

## Statistics 10 (ChirpCenter Frequency: 5322.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	20	53	1679		0.76841	1
1	2	20	57.4	1634		1.466263	
2	2	20	77.8	1233		2.03318	
3	1	20	80			2.84958	
4	1	20	81.7			3.895108	
5	3	20	95.5	1446	1483	4.180372	
6	2	20	85.8	1141		5.170252	
7	1	20	57.1			6.051769	
8	3	20	85.9	1785	1495	6.929218	
9	3	20	65.1	1816	1974	7.31769	
10	3	20	94.9	1550	1897	8.470233	
11	2	20	70.2	1146		8.895881	
12	3	20	77	1277	1398	9.847245	
13	1	20	78.9			11.04724	
14	2	20	68.7	1750		11.84411	

**Radar Type 6 Statistical Performance**

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (MHz)
1	5290	9	1	333	1	5623.0, 5529.0, 5594.0, 5403.0, 5394.0, 5401.0, 5341.0, 5558.0, 5500.0, 5390.0, 5601.0, 5347.0, 5408.0, 5342.0, 5295.0, 5642.0, 5444.0, 5267.0, 5288.0, 5340.0, 5541.0, 5547.0, 5710.0, 5450.0, 5625.0, 5712.0, 5607.0, 5425.0, 5540.0, 5364.0, 5320.0, 5720.0, 5388.0, 5597.0, 5681.0, 5505.0, 5560.0, 5283.0, 5361.0, 5442.0, 5517.0, 5454.0, 5486.0, 5375.0, 5682.0, 5527.0, 5253.0, 5436.0, 5421.0, 5445.0, 5404.0, 5392.0, 5666.0, 5608.0, 5370.0, 5669.0, 5262.0, 5326.0, 5658.0, 5525.0, 5563.0, 5281.0, 5286.0, 5373.0, 5461.0, 5353.0, 5621.0, 5671.0, 5296.0, 5569.0, 5463.0, 5645.0, 5264.0, 5528.0, 5311.0, 5304.0, 5308.0, 5533.0, 5430.0, 5683.0, 5568.0, 5457.0, 5332.0, 5452.0, 5338.0, 5713.0, 5648.0, 5422.0, 5686.0, 5643.0, 5583.0, 5407.0, 5418.0, 5694.0, 5303.0, 5503.0, 5293.0, 5571.0, 5358.0, 5345.0
2	5290	9	1	333	1	5314.0, 5257.0, 5389.0, 5622.0, 5364.0, 5338.0, 5563.0, 5567.0, 5447.0, 5455.0, 5284.0, 5281.0, 5408.0, 5349.0, 5303.0, 5266.0, 5651.0, 5454.0, 5697.0, 5309.0, 5253.0, 5632.0, 5540.0, 5262.0, 5596.0, 5252.0, 5279.0, 5388.0, 5616.0, 5460.0, 5461.0, 5655.0, 5653.0, 5362.0, 5606.0, 5443.0, 5439.0, 5269.0, 5681.0, 5688.0, 5369.0, 5662.0, 5478.0, 5414.0, 5265.0, 5361.0, 5520.0, 5285.0, 5543.0, 5669.0, 5689.0, 5718.0, 5668.0, 5663.0, 5623.0, 5633.0, 5404.0, 5450.0, 5347.0, 5608.0, 5444.0, 5409.0, 5571.0, 5553.0, 5302.0, 5305.0, 5407.0, 5422.0, 5487.0, 5547.0, 5660.0, 5513.0, 5289.0, 5686.0, 5474.0, 5321.0, 5600.0, 5671.0, 5373.0, 5698.0, 5550.0, 5398.0, 5326.0, 5423.0, 5466.0, 5379.0, 5506.0, 5367.0, 5507.0, 5514.0, 5441.0, 5383.0, 5344.0, 5334.0, 5565.0, 5534.0, 5405.0, 5467.0, 5499.0, 5337.0
3	5290	9	1	333	1	5267.0, 5332.0, 5594.0, 5477.0, 5677.0, 5468.0, 5633.0, 5493.0, 5275.0, 5252.0, 5701.0, 5385.0, 5607.0, 5405.0, 5534.0, 5690.0, 5564.0, 5471.0, 5286.0, 5469.0, 5441.0, 5597.0, 5485.0, 5384.0, 5699.0, 5457.0, 5556.0, 5548.0, 5356.0, 5321.0, 5341.0, 5455.0, 5623.0, 5417.0, 5431.0, 5391.0, 5550.0, 5379.0, 5549.0, 5630.0, 5392.0, 5383.0, 5419.0, 5510.0, 5632.0, 5360.0, 5482.0, 5378.0, 5625.0, 5335.0, 5624.0, 5684.0, 5258.0, 5422.0, 5421.0, 5393.0, 5416.0, 5661.0, 5434.0, 5569.0, 5395.0, 5700.0, 5264.0, 5404.0, 5525.0, 5629.0, 5642.0, 5376.0, 5515.0, 5634.0

						5712.0, 5306.0, 5448.0, 5484.0, 5697.0, 5605.0, 5352.0, 5575.0, 5722.0, 5662.0, 5516.0, 5256.0, 5617.0, 5671.0, 5567.0, 5559.0, 5552.0, 5294.0, 5359.0, 5388.0, 5505.0, 5721.0, 5402.0, 5658.0, 5600.0, 5460.0, 5462.0, 5618.0, 5311.0, 5296.0
4	5290	9	1	333	1	5412.0, 5532.0, 5656.0, 5654.0, 5327.0, 5262.0, 5583.0, 5337.0, 5379.0, 5426.0, 5309.0, 5640.0, 5556.0, 5290.0, 5255.0, 5403.0, 5418.0, 5435.0, 5564.0, 5489.0, 5720.0, 5590.0, 5544.0, 5261.0, 5646.0, 5287.0, 5376.0, 5498.0, 5526.0, 5294.0, 5693.0, 5455.0, 5618.0, 5591.0, 5664.0, 5645.0, 5360.0, 5549.0, 5662.0, 5373.0, 5322.0, 5449.0, 5461.0, 5668.0, 5452.0, 5252.0, 5475.0, 5389.0, 5650.0, 5405.0, 5336.0, 5540.0, 5383.0, 5467.0, 5295.0, 5351.0, 5624.0, 5415.0, 5692.0, 5482.0, 5253.0, 5305.0, 5302.0, 5504.0, 5615.0, 5684.0, 5543.0, 5423.0, 5416.0, 5292.0, 5545.0, 5717.0, 5445.0, 5527.0, 5283.0, 5350.0, 5427.0, 5300.0, 5613.0, 5621.0, 5289.0, 5500.0, 5628.0, 5519.0, 5576.0, 5503.0, 5629.0, 5345.0, 5424.0, 5622.0, 5425.0, 5478.0, 5319.0, 5263.0, 5609.0, 5653.0, 5297.0, 5515.0, 5387.0, 5257.0
5	5290	9	1	333	1	5411.0, 5704.0, 5394.0, 5387.0, 5308.0, 5609.0, 5419.0, 5632.0, 5470.0, 5460.0, 5517.0, 5445.0, 5427.0, 5272.0, 5629.0, 5398.0, 5580.0, 5363.0, 5303.0, 5669.0, 5305.0, 5463.0, 5290.0, 5480.0, 5571.0, 5567.0, 5253.0, 5532.0, 5573.0, 5339.0, 5522.0, 5362.0, 5586.0, 5333.0, 5681.0, 5368.0, 5564.0, 5479.0, 5380.0, 5583.0, 5378.0, 5478.0, 5621.0, 5365.0, 5258.0, 5289.0, 5440.0, 5468.0, 5355.0, 5423.0, 5366.0, 5705.0, 5491.0, 5369.0, 5296.0, 5492.0, 5281.0, 5575.0, 5551.0, 5361.0, 5670.0, 5262.0, 5503.0, 5597.0, 5534.0, 5312.0, 5434.0, 5330.0, 5407.0, 5557.0, 5634.0, 5541.0, 5665.0, 5367.0, 5455.0, 5658.0, 5543.0, 5508.0, 5533.0, 5515.0, 5291.0, 5674.0, 5473.0, 5495.0, 5454.0, 5402.0, 5661.0, 5566.0, 5315.0, 5671.0, 5285.0, 5648.0, 5483.0, 5276.0, 5651.0, 5274.0, 5360.0, 5429.0, 5537.0, 5703.0
6	5290	9	1	333	1	5683.0, 5262.0, 5498.0, 5617.0, 5278.0, 5588.0, 5434.0, 5671.0, 5458.0, 5457.0, 5525.0, 5593.0, 5440.0, 5670.0, 5534.0, 5403.0, 5447.0, 5609.0, 5308.0, 5717.0, 5282.0, 5526.0, 5438.0, 5650.0, 5428.0, 5523.0, 5699.0, 5391.0, 5365.0, 5456.0, 5630.0, 5623.0, 5381.0, 5719.0, 5277.0, 5279.0, 5596.0, 5575.0, 5274.0, 5595.0, 5419.0, 5718.0, 5320.0, 5340.0, 5513.0, 5316.0, 5594.0, 5578.0, 5566.0, 5603.0, 5258.0, 5484.0, 5659.0, 5318.0, 5368.0, 5565.0, 5341.0, 5327.0, 5431.0, 5486.0, 5673.0, 5500.0, 5624.0, 5569.0, 5570.0

						5505.0, 5301.0, 5604.0, 5580.0, 5509.0, 5361.0, 5417.0, 5303.0, 5577.0, 5285.0, 5469.0, 5471.0, 5656.0, 5687.0, 5618.0, 5342.0, 5463.0, 5602.0, 5439.0, 5537.0, 5483.0, 5637.0, 5378.0, 5499.0, 5400.0, 5331.0, 5644.0, 5441.0, 5664.0, 5682.0, 5668.0, 5551.0, 5669.0, 5622.0, 5404.0
7	5290	9	1	333	1	5468.0, 5471.0, 5712.0, 5322.0, 5422.0, 5577.0, 5310.0, 5435.0, 5416.0, 5552.0, 5474.0, 5319.0, 5486.0, 5264.0, 5656.0, 5490.0, 5533.0, 5616.0, 5664.0, 5330.0, 5690.0, 5618.0, 5347.0, 5555.0, 5703.0, 5366.0, 5705.0, 5613.0, 5617.0, 5458.0, 5358.0, 5709.0, 5469.0, 5675.0, 5367.0, 5470.0, 5591.0, 5273.0, 5666.0, 5631.0, 5454.0, 5351.0, 5459.0, 5495.0, 5261.0, 5345.0, 5364.0, 5668.0, 5254.0, 5391.0, 5375.0, 5558.0, 5370.0, 5311.0, 5480.0, 5289.0, 5699.0, 5385.0, 5269.0, 5586.0, 5706.0, 5518.0, 5402.0, 5541.0, 5373.0, 5399.0, 5622.0, 5328.0, 5545.0, 5530.0, 5537.0, 5640.0, 5350.0, 5524.0, 5635.0, 5642.0, 5718.0, 5406.0, 5583.0, 5659.0, 5326.0, 5334.0, 5462.0, 5423.0, 5532.0, 5335.0, 5316.0, 5661.0, 5441.0, 5601.0, 5507.0, 5644.0, 5465.0, 5475.0, 5376.0, 5430.0, 5389.0, 5505.0, 5531.0, 5479.0
8	5290	9	1	333	1	5258.0, 5389.0, 5641.0, 5434.0, 5377.0, 5603.0, 5597.0, 5282.0, 5428.0, 5511.0, 5352.0, 5715.0, 5624.0, 5542.0, 5671.0, 5722.0, 5526.0, 5698.0, 5504.0, 5355.0, 5636.0, 5251.0, 5413.0, 5674.0, 5331.0, 5430.0, 5423.0, 5570.0, 5479.0, 5452.0, 5697.0, 5382.0, 5718.0, 5252.0, 5347.0, 5295.0, 5283.0, 5305.0, 5601.0, 5657.0, 5255.0, 5271.0, 5336.0, 5392.0, 5562.0, 5394.0, 5682.0, 5668.0, 5628.0, 5417.0, 5575.0, 5270.0, 5643.0, 5375.0, 5294.0, 5709.0, 5596.0, 5708.0, 5534.0, 5360.0, 5397.0, 5518.0, 5660.0, 5440.0, 5353.0, 5552.0, 5328.0, 5462.0, 5414.0, 5610.0, 5432.0, 5683.0, 5677.0, 5438.0, 5507.0, 5362.0, 5592.0, 5365.0, 5253.0, 5700.0, 5576.0, 5482.0, 5539.0, 5460.0, 5340.0, 5695.0, 5649.0, 5711.0, 5342.0, 5309.0, 5281.0, 5589.0, 5316.0, 5451.0, 5648.0, 5494.0, 5634.0, 5310.0, 5348.0, 5302.0
9	5290	9	1	333	1	5462.0, 5693.0, 5321.0, 5492.0, 5635.0, 5431.0, 5643.0, 5411.0, 5314.0, 5711.0, 5386.0, 5282.0, 5712.0, 5569.0, 5681.0, 5373.0, 5719.0, 5511.0, 5603.0, 5482.0, 5631.0, 5597.0, 5271.0, 5637.0, 5704.0, 5261.0, 5709.0, 5346.0, 5371.0, 5422.0, 5670.0, 5661.0, 5372.0, 5416.0, 5466.0, 5304.0, 5331.0, 5638.0, 5548.0, 5407.0, 5398.0, 5440.0, 5674.0, 5689.0, 5356.0, 5618.0, 5260.0, 5360.0, 5345.0, 5508.0, 5617.0, 5408.0, 5309.0, 5456.0, 5644.0, 5608.0, 5622.0, 5459.0, 5716.0, 5585.0,



						5640.0, 5480.0, 5633.0, 5520.0, 5539.0, 5418.0, 5552.0, 5589.0, 5593.0, 5604.0, 5460.0, 5715.0, 5379.0, 5310.0, 5342.0, 5723.0, 5651.0, 5599.0, 5563.0, 5307.0, 5463.0, 5577.0, 5291.0, 5498.0, 5268.0, 5660.0, 5557.0, 5487.0, 5286.0, 5469.0, 5288.0, 5515.0, 5485.0, 5634.0, 5499.0, 5572.0, 5645.0, 5647.0, 5532.0, 5665.0
10	5290	9	1	333	1	5419.0, 5586.0, 5636.0, 5296.0, 5490.0, 5616.0, 5537.0, 5280.0, 5593.0, 5491.0, 5719.0, 5595.0, 5254.0, 5594.0, 5521.0, 5433.0, 5256.0, 5313.0, 5290.0, 5465.0, 5481.0, 5315.0, 5650.0, 5305.0, 5384.0, 5715.0, 5425.0, 5527.0, 5445.0, 5365.0, 5654.0, 5310.0, 5373.0, 5475.0, 5534.0, 5408.0, 5677.0, 5252.0, 5559.0, 5326.0, 5353.0, 5702.0, 5452.0, 5597.0, 5361.0, 5716.0, 5426.0, 5631.0, 5354.0, 5460.0, 5520.0, 5335.0, 5709.0, 5628.0, 5456.0, 5714.0, 5482.0, 5524.0, 5314.0, 5669.0, 5532.0, 5464.0, 5627.0, 5637.0, 5713.0, 5497.0, 5585.0, 5341.0, 5380.0, 5275.0, 5609.0, 5283.0, 5583.0, 5387.0, 5406.0, 5362.0, 5543.0, 5665.0, 5357.0, 5581.0, 5379.0, 5269.0, 5471.0, 5652.0, 5429.0, 5519.0, 5264.0, 5466.0, 5698.0, 5450.0, 5253.0, 5332.0, 5293.0, 5653.0, 5577.0, 5295.0, 5440.0, 5304.0, 5607.0, 5272.0
11	5290	9	1	333	1	5315.0, 5630.0, 5463.0, 5370.0, 5487.0, 5380.0, 5661.0, 5412.0, 5303.0, 5300.0, 5368.0, 5337.0, 5610.0, 5621.0, 5615.0, 5286.0, 5712.0, 5312.0, 5349.0, 5443.0, 5314.0, 5587.0, 5526.0, 5664.0, 5552.0, 5498.0, 5379.0, 5599.0, 5389.0, 5528.0, 5708.0, 5421.0, 5658.0, 5669.0, 5304.0, 5287.0, 5392.0, 5512.0, 5559.0, 5613.0, 5393.0, 5570.0, 5567.0, 5347.0, 5301.0, 5355.0, 5405.0, 5278.0, 5272.0, 5318.0, 5374.0, 5437.0, 5648.0, 5618.0, 5327.0, 5306.0, 5459.0, 5645.0, 5480.0, 5548.0, 5294.0, 5522.0, 5515.0, 5402.0, 5632.0, 5408.0, 5403.0, 5283.0, 5477.0, 5607.0, 5395.0, 5488.0, 5667.0, 5279.0, 5585.0, 5364.0, 5651.0, 5342.0, 5717.0, 5474.0, 5409.0, 5631.0, 5381.0, 5259.0, 5518.0, 5579.0, 5676.0, 5391.0, 5663.0, 5689.0, 5511.0, 5589.0, 5383.0, 5703.0, 5269.0, 5542.0, 5598.0, 5595.0, 5652.0, 5416.0
12	5290	9	1	333	1	5445.0, 5316.0, 5531.0, 5583.0, 5687.0, 5628.0, 5465.0, 5424.0, 5502.0, 5351.0, 5710.0, 5507.0, 5324.0, 5362.0, 5715.0, 5260.0, 5707.0, 5312.0, 5586.0, 5399.0, 5288.0, 5389.0, 5680.0, 5283.0, 5519.0, 5706.0, 5447.0, 5581.0, 5550.0, 5595.0, 5452.0, 5293.0, 5650.0, 5373.0, 5332.0, 5714.0, 5649.0, 5341.0, 5286.0, 5621.0, 5471.0, 5539.0, 5363.0, 5516.0, 5367.0, 5636.0, 5720.0, 5477.0, 5609.0, 5408.0, 5660.0, 5270.0, 5383.0, 5630.0, 5529.0,

						5668.0, 5492.0, 5552.0, 5489.0, 5384.0, 5335.0, 5356.0, 5266.0, 5512.0, 5501.0, 5640.0, 5509.0, 5503.0, 5309.0, 5718.0, 5671.0, 5427.0, 5551.0, 5491.0, 5689.0, 5436.0, 5584.0, 5378.0, 5403.0, 5538.0, 5331.0, 5711.0, 5317.0, 5661.0, 5434.0, 5685.0, 5508.0, 5437.0, 5692.0, 5475.0, 5658.0, 5511.0, 5608.0, 5559.0, 5582.0, 5410.0, 5589.0, 5291.0, 5334.0, 5642.0
13	5290	9	1	333	1	5377.0, 5402.0, 5368.0, 5417.0, 5621.0, 5630.0, 5397.0, 5479.0, 5254.0, 5679.0, 5669.0, 5584.0, 5471.0, 5253.0, 5300.0, 5306.0, 5400.0, 5700.0, 5387.0, 5443.0, 5519.0, 5437.0, 5538.0, 5319.0, 5572.0, 5447.0, 5559.0, 5555.0, 5432.0, 5353.0, 5255.0, 5289.0, 5283.0, 5428.0, 5503.0, 5456.0, 5698.0, 5678.0, 5355.0, 5624.0, 5529.0, 5647.0, 5422.0, 5644.0, 5562.0, 5643.0, 5399.0, 5518.0, 5361.0, 5645.0, 5626.0, 5657.0, 5502.0, 5315.0, 5637.0, 5419.0, 5351.0, 5634.0, 5514.0, 5594.0, 5591.0, 5291.0, 5499.0, 5530.0, 5293.0, 5309.0, 5383.0, 5525.0, 5448.0, 5501.0, 5541.0, 5704.0, 5526.0, 5636.0, 5314.0, 5667.0, 5528.0, 5595.0, 5533.0, 5365.0, 5523.0, 5549.0, 5372.0, 5692.0, 5459.0, 5500.0, 5403.0, 5481.0, 5267.0, 5627.0, 5394.0, 5690.0, 5384.0, 5548.0, 5398.0, 5427.0, 5608.0, 5278.0, 5375.0, 5589.0
14	5290	9	1	333	1	5698.0, 5490.0, 5672.0, 5443.0, 5595.0, 5518.0, 5485.0, 5577.0, 5377.0, 5533.0, 5260.0, 5268.0, 5344.0, 5394.0, 5690.0, 5429.0, 5625.0, 5568.0, 5449.0, 5573.0, 5405.0, 5437.0, 5551.0, 5473.0, 5406.0, 5474.0, 5274.0, 5646.0, 5723.0, 5456.0, 5415.0, 5669.0, 5608.0, 5651.0, 5338.0, 5358.0, 5552.0, 5321.0, 5683.0, 5562.0, 5526.0, 5586.0, 5452.0, 5311.0, 5717.0, 5410.0, 5685.0, 5366.0, 5661.0, 5701.0, 5527.0, 5581.0, 5285.0, 5618.0, 5519.0, 5546.0, 5362.0, 5259.0, 5653.0, 5689.0, 5687.0, 5300.0, 5312.0, 5486.0, 5572.0, 5676.0, 5385.0, 5397.0, 5465.0, 5453.0, 5282.0, 5275.0, 5318.0, 5320.0, 5589.0, 5469.0, 5408.0, 5403.0, 5295.0, 5615.0, 5596.0, 5475.0, 5528.0, 5594.0, 5599.0, 5435.0, 5534.0, 5529.0, 5271.0, 5272.0, 5363.0, 5374.0, 5522.0, 5658.0, 5472.0, 5706.0, 5439.0, 5620.0, 5258.0, 5637.0
15	5290	9	1	333	1	5491.0, 5503.0, 5695.0, 5468.0, 5374.0, 5509.0, 5685.0, 5673.0, 5452.0, 5300.0, 5318.0, 5523.0, 5357.0, 5682.0, 5512.0, 5724.0, 5567.0, 5434.0, 5597.0, 5398.0, 5534.0, 5431.0, 5270.0, 5370.0, 5364.0, 5257.0, 5308.0, 5333.0, 5389.0, 5496.0, 5683.0, 5614.0, 5393.0, 5460.0, 5405.0, 5259.0, 5642.0, 5437.0, 5699.0, 5501.0, 5371.0, 5590.0, 5294.0, 5409.0, 5402.0, 5383.0, 5658.0, 5674.0, 5494.0, 5272.0,

						5472.0, 5574.0, 5388.0, 5441.0, 5557.0, 5278.0, 5664.0, 5584.0, 5566.0, 5528.0, 5293.0, 5381.0, 5538.0, 5686.0, 5367.0, 5347.0, 5589.0, 5252.0, 5623.0, 5692.0, 5338.0, 5415.0, 5651.0, 5445.0, 5471.0, 5361.0, 5662.0, 5548.0, 5720.0, 5416.0, 5385.0, 5522.0, 5344.0, 5585.0, 5296.0, 5606.0, 5610.0, 5413.0, 5429.0, 5425.0, 5604.0, 5628.0, 5712.0, 5718.0, 5275.0, 5607.0, 5663.0, 5603.0, 5551.0, 5332.0
16	5290	9	1	333	1	5279.0, 5653.0, 5538.0, 5347.0, 5488.0, 5661.0, 5539.0, 5296.0, 5350.0, 5449.0, 5297.0, 5535.0, 5551.0, 5490.0, 5640.0, 5492.0, 5377.0, 5570.0, 5691.0, 5660.0, 5664.0, 5511.0, 5487.0, 5709.0, 5476.0, 5546.0, 5582.0, 5335.0, 5545.0, 5456.0, 5480.0, 5261.0, 5323.0, 5464.0, 5697.0, 5527.0, 5704.0, 5366.0, 5541.0, 5496.0, 5385.0, 5605.0, 5674.0, 5557.0, 5317.0, 5616.0, 5647.0, 5384.0, 5650.0, 5395.0, 5380.0, 5547.0, 5471.0, 5481.0, 5599.0, 5654.0, 5290.0, 5678.0, 5434.0, 5591.0, 5382.0, 5326.0, 5314.0, 5706.0, 5364.0, 5525.0, 5416.0, 5344.0, 5313.0, 5422.0, 5299.0, 5278.0, 5595.0, 5367.0, 5311.0, 5413.0, 5458.0, 5342.0, 5622.0, 5708.0, 5698.0, 5658.0, 5638.0, 5508.0, 5651.0, 5696.0, 5685.0, 5360.0, 5621.0, 5312.0, 5612.0, 5309.0, 5504.0, 5355.0, 5649.0, 5466.0, 5259.0, 5328.0, 5566.0, 5441.0
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29	5290	9	1	333	1	5439.0, 5332.0, 5540.0, 5700.0, 5306.0, 5489.0, 5271.0, 5603.0, 5551.0, 5577.0, 5407.0, 5654.0, 5685.0, 5466.0, 5366.0, 5322.0, 5504.0, 5702.0, 5574.0, 5560.0, 5511.0, 5621.0, 5391.0, 5307.0, 5590.0, 5436.0, 5456.0, 5451.0, 5492.0, 5641.0, 5340.0, 5444.0, 5651.0, 5373.0, 5382.0, 5337.0, 5704.0, 5379.0, 5525.0, 5250.0, 5313.0, 5581.0, 5479.0, 5295.0, 5377.0, 5376.0, 5499.0, 5648.0, 5506.0, 5258.0, 5364.0, 5428.0, 5457.0, 5723.0, 5400.0, 5305.0, 5420.0, 5354.0, 5680.0, 5561.0, 5681.0, 5698.0, 5695.0, 5617.0, 5630.0, 5644.0, 5596.0, 5470.0, 5687.0, 5613.0, 5285.0, 5256.0, 5469.0, 5348.0, 5600.0, 5523.0, 5498.0, 5450.0, 5404.0, 5496.0, 5462.0, 5639.0, 5611.0, 5720.0, 5708.0, 5458.0, 5563.0, 5536.0, 5344.0, 5334.0, 5526.0, 5682.0, 5468.0, 5380.0, 5619.0, 5461.0, 5481.0, 5614.0, 5331.0, 5690.0
30	5290	9	1	333	1	5323.0, 5390.0, 5506.0, 5540.0, 5532.0, 5564.0, 5261.0, 5417.0, 5303.0, 5370.0, 5633.0, 5582.0, 5526.0, 5391.0, 5571.0, 5530.0, 5349.0, 5412.0, 5688.0, 5288.0, 5381.0, 5624.0, 5520.0, 5648.0, 5687.0,

						5597.0, 5576.0, 5449.0, 5539.0, 5625.0, 5616.0, 5421.0, 5626.0, 5418.0, 5335.0, 5683.0, 5521.0, 5678.0, 5685.0, 5345.0, 5537.0, 5677.0, 5343.0, 5380.0, 5400.0, 5271.0, 5304.0, 5270.0, 5440.0, 5525.0, 5622.0, 5465.0, 5608.0, 5665.0, 5517.0, 5460.0, 5558.0, 5498.0, 5340.0, 5588.0, 5568.0, 5605.0, 5584.0, 5331.0, 5601.0, 5256.0, 5572.0, 5618.0, 5598.0, 5336.0, 5508.0, 5647.0, 5536.0, 5489.0, 5602.0, 5653.0, 5408.0, 5457.0, 5407.0, 5603.0, 5333.0, 5699.0, 5267.0, 5689.0, 5338.0, 5282.0, 5328.0, 5272.0, 5704.0, 5609.0, 5446.0, 5382.0, 5563.0, 5570.0, 5257.0, 5684.0, 5432.0, 5433.0, 5435.0, 5495.0
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**40MHz**

<b>Radar SignalType</b>	<b>Waveform/Trial Number</b>	<b>Detection (%)</b>	<b>Limit (%)</b>	<b>Pass/Fail</b>
<b>Type 1A</b>	15	100%	60%	pass
<b>Type 1B</b>	15	93.3%	60%	pass
<b>Type 2</b>	30	100%	60%	Pass
<b>Type 3</b>	30	96.7%	60%	Pass
<b>Type 4</b>	30	93.3%	60%	Pass
<b>Aggregate(Type1 to 4)</b>	120	96.67%	80%	Pass
<b>Type 5</b>	30	100 %	80%	Pass
<b>Type 6</b>	30	100 %	70%	Pass

Please refer to the following statistical tables:

**5310MHz****Radar Type 1A Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	63	1	838	1
2	5310	59	1	898	1
3	5310	74	1	718	1
4	5310	65	1	818	1
5	5310	70	1	758	1
6	5310	62	1	858	1
7	5310	78	1	678	1
8	5310	99	1	538	1
9	5310	81	1	658	1
10	5310	57	1	938	1
11	5310	95	1	558	1
12	5310	89	1	598	1
13	5310	67	1	798	1
14	5310	92	1	578	1
15	5310	83	1	638	1
Detection Percentage:100 % (>60%)					

**Radar Type 1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	28	1	1907	1
2	5310	40	1	1344	1
3	5310	96	1	550	1
4	5310	21	1	2582	1
5	5310	22	1	2411	1
6	5310	20	1	2674	1
7	5310	19	1	2782	1
8	5310	20	1	2696	1
9	5310	20	1	2666	0
10	5310	24	1	2283	1
11	5310	45	1	1188	1
12	5310	33	1	1645	1
13	5310	28	1	1886	1
14	5310	80	1	660	1
15	5310	22	1	2436	1
Detection Percentage: 93.3 % (>60%)					

**Radar Type 2 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	27	2.7	195	1
2	5310	25	3.5	182	1
3	5310	23	2.8	194	1
4	5310	29	3.6	219	1
5	5310	28	4.3	155	1
6	5310	23	1.7	192	1
7	5310	24	4.6	192	1
8	5310	23	4.4	199	1
9	5310	25	1.9	157	1
10	5310	28	1.7	170	1
11	5310	29	1.4	187	1
12	5310	28	3.3	173	1
13	5310	28	1.8	183	1
14	5310	23	1	191	1
15	5310	29	1.1	206	1
16	5310	24	4.4	191	1
17	5310	26	2.6	215	1
18	5310	29	3.3	176	1
19	5310	27	2.2	175	1
20	5310	29	1.6	230	1
21	5310	27	1.8	194	1
22	5310	25	2.8	203	1
23	5310	29	2.3	172	1
24	5310	25	3.7	175	1
25	5310	25	2.9	165	1
26	5310	26	2.4	201	1
27	5310	25	2.3	155	1
28	5310	25	4.5	187	1
29	5310	24	4.1	225	1
30	5310	27	4.5	166	1
<b>Detection Percentage: 100 % (&gt;60%)</b>					

**Radar Type 3 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	18	9.7	493	1
2	5310	18	9.5	222	1
3	5310	16	7.9	376	1
4	5310	18	6.1	494	1
5	5310	16	6.2	450	1
6	5310	18	6.1	365	0
7	5310	17	7.3	231	1
8	5310	18	8.6	453	1
9	5310	16	6.6	216	1
10	5310	16	7.4	443	1
11	5310	17	9.4	439	1
12	5310	17	7	367	1
13	5310	17	7.1	398	1
14	5310	16	9.7	357	1
15	5310	18	6.2	248	1
16	5310	17	8.3	348	1
17	5310	16	7.7	362	1
18	5310	16	7.9	351	1
19	5310	17	6.5	201	1
20	5310	18	9	309	1
21	5310	18	7	365	1
22	5310	18	7	222	1
23	5310	17	9.4	330	1
24	5310	17	9.5	231	1
25	5310	17	6.9	346	1
26	5310	16	10	349	1
27	5310	16	9.7	283	1
28	5310	16	9.8	301	1
29	5310	17	6.4	374	1
30	5310	18	6.2	421	1
<b>Detection Percentage: 96.7 % (&gt;60%)</b>					

**Radar Type 4 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	16	19.1	383	1
2	5310	13	18.1	432	1
3	5310	13	11.8	266	0
4	5310	16	12.4	445	1
5	5310	15	16.2	312	1
6	5310	13	16.2	238	1
7	5310	14	19.4	498	1
8	5310	15	19.3	369	1
9	5310	12	11.5	334	1
10	5310	15	14.7	475	1
11	5310	13	17.7	291	0
12	5310	13	15.7	335	1
13	5310	12	17.5	318	1
14	5310	12	15.6	417	1
15	5310	15	19.2	420	1
16	5310	15	16.8	308	1
17	5310	16	17.7	484	1
18	5310	13	12.5	289	1
19	5310	16	15.2	215	1
20	5310	16	19.3	453	1
21	5310	14	19	494	1
22	5310	13	14.5	218	1
23	5310	13	17.2	324	1
24	5310	13	19.2	474	1
25	5310	14	18.9	278	1
26	5310	16	12	208	1
27	5310	12	19.9	273	1
28	5310	12	17.4	469	1
29	5310	15	11.8	457	1
30	5310	13	15.8	221	1
<b>Detection Percentage: 93.3 % (&gt;60%)</b>					

**Radar Type 5 Case 1 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5310.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	8	61.3	1999	1647	0.003008	1
1	1	8	97			0.817915	
2	1	8	99.1			1.426061	
3	2	8	72.9	1603		2.410609	
4	1	8	61.7			3.245072	
5	2	8	91.7	1159		3.614951	
6	2	8	90.3	1090		4.173708	
7	1	8	88.3			4.667663	
8	2	8	64.4	1553		5.683466	
9	1	8	65.3			6.228327	
10	1	8	87.5			7.029734	
11	2	8	72.1	1108		7.437605	
12	2	8	99.5	1199		8.515916	
13	2	8	86	1363		9.260169	
14	2	8	66.9	1188		9.557131	
15	1	8	65.4			10.60077	
16	1	8	63.3			10.6831	
17	2	8	77.9	1869		11.82608	

Statistics 2 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	8	85.9	1544		0.254529	1
1	2	8	71.4	1281		1.175459	
2	2	8	77.2	1130		1.941733	
3	2	8	92.4	1990		2.17447	
4	1	8	62.2			3.218884	
5	2	8	51.9	1069		3.56238	
6	2	8	72.1	1504		4.044133	
7	2	8	82.4	1705		5.089491	
8	1	8	67.8			5.930749	
9	2	8	87.8	1627		6.422888	
10	2	8	62.7	1472		6.860762	
11	3	8	88.8	1174	1241	7.949954	
12	2	8	75.5	1195		8.167978	
13	1	8	76.2			8.70363	
14	2	8	68.9	1201		9.730247	
15	3	8	90.6	1782	1422	10.17877	
16	2	8	73.4	1379		10.92313	
17	2	8	71.9	1342		11.79059	

## Statistics 3 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	96.1	1667		0.321474	1
1	3	7	82	1964	1903	1.563534	
2	1	7	83.5			1.835526	
3	3	7	83.9	1526	1358	2.868643	
4	1	7	67.5			3.458281	
5	1	7	67.7			5.082341	
6	2	7	92	1767		5.525329	
7	2	7	63.9	1873		6.346717	
8	2	7	61.8	1651		7.114937	
9	1	7	88.1			8.016856	
10	1	7	67.1			8.631544	
11	2	7	69.8	1330		9.56305	
12	2	7	71	1944		10.74985	
13	2	7	78	1768		11.38631	

## Statistics 4 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	93.2	1350		0.425381	1
1	2	7	94.8	1808		1.240375	
2	2	7	60.1	1364		2.008057	
3	3	7	85.2	1257	1685	2.663365	
4	2	7	50.2	1887		3.045219	
5	2	7	88.1	1350		3.774157	
6	1	7	96			4.620923	
7	2	7	74.9	1245		5.456352	
8	2	7	83.8	1729		5.993648	
9	1	7	97.6			6.826191	
10	2	7	92.4	1408		7.169188	
11	2	7	73.5	1797		8.339398	
12	2	7	79.3	1831		8.978991	
13	1	7	98.9			9.501934	
14	2	7	63.6	1400		10.42407	
15	2	7	95.3	1949		10.87145	
16	3	7	70.3	1916	1497	11.40346	

## Statistics 5(ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	11	78.7			0.442957	1
1	2	11	65.5	1232		1.011254	
2	2	11	64.6	1185		1.786014	
3	2	11	79.9	1597		3.150373	
4	2	11	65.1	1034		3.931012	
5	1	11	50.6			4.276434	
6	2	11	55.4	1996		5.51091	
7	2	11	80	1055		6.21172	
8	1	11	66.4			6.939404	
9	2	11	65.1	1934		7.835694	
10	3	11	56.4	1221	1144	8.620984	
11	3	11	92.3	1446	1231	9.322017	
12	3	11	67.9	1742	1473	10.07771	
13	2	11	92.4	1275		10.51536	
14	2	11	66.2	1349		11.37971	



## Statistics 6 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	14	82	1217	1259	0.539837	1
1	1	14	53.9			0.904805	
2	2	14	52.3	1701		1.338011	
3	2	14	72.2	1568		2.283896	
4	1	14	55.7			3.212076	
5	2	14	81.4	1241		3.614416	
6	2	14	89.2	1227		4.565074	
7	2	14	87	1892		4.839432	
8	2	14	61	1626		5.740715	
9	2	14	97.1	1557		6.397996	
10	2	14	96.5	1772		6.964687	
11	2	14	76.2	1053		7.358947	
12	2	14	56.3	1359		8.660331	
13	3	14	64.7	1944	1253	9.281742	
14	1	14	96.2			9.495947	
15	2	14	76.5	1417		10.49608	
16	1	14	97.3			10.9635	
17	2	14	77.3	1751		11.81884	

Statistics 7(ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	12	95	1983	1787	0.174095	1
1	3	12	73.4	1475	1036	1.880656	
2	1	12	68.2			3.810031	
3	2	12	86	1116		5.049147	
4	3	12	50.4	1353	1932	5.478468	
5	2	12	87.3	1833		7.054071	
6	2	12	73	1560		8.111	
7	3	12	78	1163	1200	9.762399	
8	1	12	91.2			10.69108	

Statistics 8 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	93.4	1647		0.175136	1
1	1	6	92.9			0.979026	
2	3	6	68.5	1684	1562	1.753159	
3	2	6	69.7	1922		2.989337	
4	1	6	61.8			3.111753	
5	2	6	92.2	1618		4.257383	
6	2	6	79.9	1046		4.926282	
7	1	6	58			5.479871	
8	3	6	93.8	1298	1667	6.669541	
9	3	6	99	1695	1770	7.059717	
10	1	6	97.4			8.067803	
11	2	6	65.2	1396		8.780252	
12	2	6	85.7	1339		9.315404	
13	2	6	67	1635		9.810491	
14	3	6	78	1593	1657	10.5066	
15	2	6	91.7	1244		11.7994	

Statistics 9 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	78	1182		0.658201	1
1	2	6	57.1	1047		1.199211	
2	2	6	54.2	1584		2.155251	
3	2	6	76.1	1328		2.868069	
4	2	6	56.8	1051		3.07088	
5	1	6	51.1			4.450659	
6	1	6	91.8			4.631494	
7	3	6	81.5	1432	1227	5.690155	
8	2	6	87.9	1705		6.47755	
9	2	6	92	1621		6.866299	
10	3	6	51.7	1698	1872	8.0589	
11	2	6	86.7	1698		8.376421	
12	1	6	78.9			9.403306	
13	1	6	90.4			10.16302	
14	1	6	76.2			10.99121	
15	3	6	98.4	1449	1865	11.32645	

Statistics 10 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	10	55.2	1319	1530	0.482949	1
1	2	10	56.7	1275		1.282315	
2	2	10	56.8	1508		1.570983	
3	2	10	50.9	1725		2.329735	
4	2	10	96.9	1048		3.043644	
5	1	10	74.7			3.8266	
6	2	10	81	1494		4.922638	
7	3	10	93.5	1891	1351	5.778472	
8	1	10	77			6.295362	
9	2	10	97.4	1504		7.164067	
10	1	10	84.8			7.89733	
11	1	10	51.7			8.525281	
12	3	10	72.7	1120	1075	9.33405	
13	2	10	84.3	1929		9.806646	
14	2	10	73.1	1245		11.06164	
15	2	10	79.4	1635		11.96647	

**Radar Type 5 Case 2 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5296.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	15	89.9	1046	1076	0.171141	1
1	3	15	56.9	1426	1265	1.452621	
2	3	15	73	1221	1155	2.527728	
3	2	15	65.5	1692		3.652429	
4	2	15	73.6	1862		5.22199	
5	1	15	92.3			5.487208	
6	2	15	88.1	1233		7.319137	
7	2	15	91.4	1092		7.763599	
8	2	15	91	1024		8.905876	
9	2	15	54.7	1570		10.64414	
10	2	15	88.9	1289		11.5196	

Statistics 2 (ChirpCenter Frequency: 5296.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	14	98.7			0.653489	1
1	3	14	56.5	1532	1309	1.059878	
2	2	14	71.2	1232		2.734161	
3	2	14	68.4	1100		3.491027	
4	1	14	63.4			3.878573	
5	1	14	58			5.271556	
6	1	14	63.4			5.612102	
7	3	14	98.8	1902	1170	6.643484	
8	2	14	65.5	1457		7.952331	
9	3	14	92.1	1748	1899	8.867805	
10	2	14	99.2	1145		9.467338	
11	2	14	88	1141		10.5752	
12	3	14	67.7	1738	1941	11.98219	

Statistics 3 (ChirpCenter Frequency: 5295.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	13	56.8	1227	1731	0.171406	1
1	3	13	92.8	1522	1025	1.014321	
2	3	13	59.5	1356	1274	1.737787	
3	2	13	64.1	1390		2.384403	
4	2	13	71.8	1583		3.480772	
5	3	13	87	1501	1606	4.012606	
6	3	13	91.1	1967	1561	4.862583	
7	2	13	88.3	1871		5.001668	
8	3	13	97.1	1578	1929	6.194794	
9	2	13	54.5	1624		6.727801	
10	1	13	78.6			7.432498	
11	1	13	67.4			8.337712	
12	1	13	87.8			9.137943	
13	3	13	96.2	1081	1652	9.291103	
14	2	13	69.1	1552		10.21029	
15	1	13	90.7			11.0151	
16	2	13	90.1	1336		11.59452	

Statistics 4 (ChirpCenter Frequency: 5295.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	91.3	1158		0.97832	1
1	2	13	70.3	1487		1.437727	
2	1	13	89.7			2.762098	
3	3	13	61.1	1136	1227	4.486116	
4	2	13	91.3	1043		5.563923	
5	3	13	53.3	1342	1712	6.083492	
6	2	13	75.2	1275		7.754799	
7	2	13	79.7	1741		8.857398	
8	3	13	98.5	1461	1432	10.28255	
9	2	13	58.4	1758		11.94721	

Statistics 5 (ChirpCenter Frequency: 5293.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	62.9	1316		0.722496	1
1	2	7	98.7	1488		1.555571	
2	2	7	64.2	1701		3.109626	
3	2	7	83.2	1352		3.723574	
4	3	7	58.4	1619	1404	5.40473	
5	3	7	60.8	1079	1939	6.997254	
6	2	7	89	1303		8.034239	
7	2	7	61.3	1396		9.438563	
8	2	7	59.4	1051		9.810776	
9	3	7	74.1	1696	1672	11.08454	

Statistics 6 (ChirpCenter Frequency: 5294.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	11	71.4			0.160163	1
1	1	11	79.6			1.823261	
2	1	11	80.8			3.06167	
3	2	11	84.5	1901		3.500484	
4	3	11	86.1	1328	1407	4.9123	
5	1	11	68.3			5.61933	
6	2	11	79.6	1497		6.887092	
7	1	11	53.4			8.447272	
8	3	11	83.2	1397	1645	8.851536	
9	1	11	52.4			10.09868	
10	2	11	75.4	1662		11.23695	

Statistics 7 (ChirpCenter Frequency: 5295.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	86.4	1904		0.148017	1
1	3	13	60.1	1494	1429	1.225174	
2	1	13	68.9			2.042216	
3	2	13	66.8	1016		2.715546	
4	3	13	58.9	1500	1568	3.226373	
5	1	13	90.3			3.880297	
6	2	13	59.2	1027		4.469739	
7	2	13	97.6	1327		5.112988	
8	2	13	70.7	1359		5.849971	
9	1	13	75			6.449208	
10	2	13	63.2	1029		7.355087	
11	2	13	72.6	1262		7.910932	
12	2	13	89.7	1372		8.86026	
13	3	13	52.3	1308	1545	9.205039	
14	1	13	67.2			10.33023	
15	1	13	75.3			10.68417	
16	2	13	82.5	1265		11.41187	

Statistics 8 (ChirpCenter Frequency: 5295.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	57.7	1803		0.669221	1
1	2	13	51	1310		2.401815	
2	2	13	73.2	1632		2.945225	
3	3	13	71.1	1167	1494	4.039228	
4	3	13	87.1	1635	1011	6.556546	
5	3	13	79.2	1850	1773	6.976598	
6	2	13	75.8	1249		8.350261	
7	2	13	60.8	1387		9.648044	
8	1	13	98.1			11.18348	

Statistics 9 (ChirpCenter Frequency: 5294.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width ( $\mu$ S)	Pulse 1-2 spacing( $\mu$ S)	Pulse 2-3 spacing( $\mu$ S)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	9	60.2	1272	1933	0.208531	1
1	2	9	75.5	1066		0.937387	
2	1	9	57.8			1.917463	
3	1	9	52.7			2.288359	
4	2	9	54.1	1714		3.046845	
5	2	9	76.1	1382		3.722357	
6	2	9	77.5	1151		4.249487	
7	2	9	62.5	1763		5.393398	
8	1	9	95.9			5.949362	
9	1	9	54.7			6.506927	
10	2	9	72.4	1593		7.591938	
11	2	9	97.1	1578		8.26794	
12	1	9	98.1			8.598683	
13	2	9	55.9	1990		9.371637	
14	3	9	67.5	1313	1422	9.954483	
15	3	9	83.2	1869	1280	10.68966	
16	1	9	78.4			11.80036	

Statistics 10 (ChirpCenter Frequency: 5296.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width ( $\mu$ S)	Pulse 1-2 spacing( $\mu$ S)	Pulse 2-3 spacing( $\mu$ S)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	14	97.1	1121		1.262502	1
1	1	14	56.5			1.860142	
2	2	14	67.3	1549		2.90551	
3	2	14	89	1193		4.539397	
4	1	14	88.6			5.768184	
5	2	14	66.7	1034		6.810747	
6	1	14	74.5			8.320699	
7	2	14	56.5	1190		9.598917	
8	1	14	89.9			11.62651	



**Radar Type 5 Case 3 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	17	96	2000		0.188519	1
1	2	17	69.8	1851		0.866499	
2	2	17	99.5	1599		1.822119	
3	2	17	59.4	1473		2.548689	
4	2	17	61.7	1443		3.169165	
5	2	17	92.7	1930		3.62895	
6	2	17	96.5	1568		4.303769	
7	2	17	68.1	1396		5.536663	
8	2	17	85.9	1600		6.115995	
9	3	17	72.5	1497	1610	6.677279	
10	3	17	80.6	1734	1379	7.254862	
11	2	17	73.1	1589		7.825174	
12	2	17	69.8	1027		8.894714	
13	2	17	61.6	1849		9.749967	
14	3	17	79.7	1025	1308	10.09187	
15	1	17	71.9			11.00745	
16	2	17	81.3	1468		11.41433	

Statistics 2 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	8	70.7	1432		0.278607	1
1	3	8	79.7	1290	1001	0.990032	
2	1	8	57.5			2.369546	
3	2	8	65.8	1938		2.827739	
4	1	8	62.9			3.409295	
5	2	8	87.8	1677		4.592985	
6	3	8	53.6	1069	1544	5.062788	
7	3	8	83.1	1125	1104	6.208654	
8	2	8	98.7	1053		7.188246	
9	2	8	87	1838		7.763599	
10	1	8	68.2			8.651454	
11	1	8	66.7			9.121911	
12	3	8	77.7	1074	1845	10.22229	
13	2	8	72.2	1702		11.12324	
14	3	8	61.8	1307	1896	11.90488	

## Statistics 3 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	18	74.7	1604		0.029311	1
1	2	18	92.1	1298		1.323869	
2	3	18	52.5	1331	1446	2.12866	
3	3	18	70.3	1424	1575	3.071171	
4	2	18	54.4	1730		3.677352	
5	2	18	70.7	1424		4.347081	
6	1	18	50.7			4.825838	
7	2	18	61.7	1188		5.927966	
8	2	18	81.5	1398		7.194475	
9	2	18	74.5	1193		7.770055	
10	2	18	89.3	1973		8.297819	
11	2	18	92.1	1761		9.485979	
12	2	18	76.4	1980		10.12711	
13	2	18	66.3	1608		11.10223	
14	2	18	72.1	1246		11.64169	

## Statistics 4 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	12	66	1807	1536	0.582262	1
1	3	12	51.1	1213	1744	0.682667	
2	2	12	99.9	1435		1.431225	
3	2	12	63.3	1907		2.000186	
4	1	12	97.7			2.780749	
5	1	12	62.1			3.476901	
6	2	12	84	1592		4.545279	
7	1	12	61.9			5.07698	
8	1	12	94.5			5.624742	
9	1	12	83.4			6.565033	
10	1	12	52.8			6.890713	
11	2	12	75.3	1180		7.491923	
12	1	12	73.7			8.621297	
13	1	12	88.6			8.727201	
14	2	12	79.1	1877		9.616712	
15	2	12	55.1	1312		10.56015	
16	2	12	61.2	1420		11.24995	
17	2	12	87.7	1259		11.55189	

Statistics 5 (ChirpCenter Frequency: 5326.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	63.2	1326		0.416562	1
1	2	10	62.2	1987		1.035792	
2	3	10	71.3	1200	1366	1.670716	
3	1	10	92			2.448539	
4	2	10	94.5	1881		3.088117	
5	3	10	75.4	1767	1829	3.536344	
6	3	10	72.2	1277	1001	4.562939	
7	2	10	94.1	1442		5.435873	
8	1	10	92.5			6.064144	
9	2	10	65.8	1148		6.353769	
10	1	10	68.2			7.211538	
11	2	10	53.5	1488		8.290579	
12	3	10	60.5	1173	1035	8.720939	
13	2	10	87.9	1112		9.388342	
14	2	10	77.2	1689		9.893659	
15	2	10	81.4	1978		11.16026	
16	2	10	81	1027		11.68722	

Statistics 6 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	18	80			0.221908	1
1	3	18	92.1	1219	1804	0.943214	
2	2	18	67.8	1575		1.585618	
3	3	18	64.4	1457	1838	1.975685	
4	2	18	92.5	1409		2.646404	
5	1	18	68.1			3.176372	
6	2	18	59.4	1481		3.9112	
7	2	18	64.9	1597		4.299599	
8	3	18	63.2	1093	1676	5.347436	
9	2	18	62.3	1301		5.892392	
10	1	18	84.5			6.407494	
11	2	18	62.7	1241		6.798783	
12	3	18	71.6	1674	1763	7.366547	
13	2	18	57	1441		8.394171	
14	1	18	53.8			8.993982	
15	2	18	93.8	1609		9.102014	
16	1	18	63.2			10.13664	
17	2	18	88.1	1720		10.78173	
18	2	18	57.9	1188		11.10356	
19	2	18	71.8	1549		11.6186	

Statistics 7 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	17	57.4			0.603696	1
1	2	17	73.5	1814		1.033224	
2	1	17	62.9			1.482189	
3	2	17	70.4	1717		2.226642	
4	2	17	62	1121		2.574048	
5	2	17	60.4	1059		3.476876	
6	2	17	64.9	1461		4.285588	
7	1	17	56.2			5.040923	
8	2	17	96.4	1513		5.299214	
9	2	17	75.7	1659		5.940431	
10	2	17	92.5	1541		6.748412	
11	1	17	57.9			6.963634	
12	3	17	80.1	1307	1198	7.692633	
13	3	17	95.7	1433	1993	8.731416	
14	1	17	99.1			9.416567	
15	1	17	68.2			9.732967	
16	3	17	57	1759	1346	10.45936	
17	1	17	53.1			11.02408	
18	3	17	86.7	1218	1435	11.87448	

Statistics 8 (ChirpCenter Frequency: 5326.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	11	64.8	1538	1234	0.485182	1
1	3	11	72.2	1302	1738	1.096136	
2	2	11	66.3	1936		1.986386	
3	3	11	69.5	1219	1458	2.452038	
4	2	11	97	1312		3.419622	
5	2	11	63.6	1052		4.718983	
6	2	11	70.6	1903		5.29927	
7	2	11	54.2	1242		6.199534	
8	2	11	77.7	1606		6.821183	
9	2	11	96	1865		7.652273	
10	2	11	98.9	1347		8.769609	
11	2	11	66.5	1021		9.232669	
12	2	11	72.9	1406		10.07505	
13	1	11	72.5			10.61923	
14	3	11	97.2	1421	1877	11.32537	

## Statistics 9 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	15	98.9	1612		1.146422	1
1	3	15	88.4	1139	1662	2.445671	
2	1	15	73.9			3.073837	
3	1	15	73.3			4.505543	
4	3	15	93.1	1724	1131	5.50402	
5	3	15	56	1483	1215	6.920459	
6	2	15	84.9	1499		8.325264	
7	2	15	82.6	1201		10.31713	
8	3	15	92.5	1082	1036	11.85816	

## Statistics 10 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	13	75.2	1322	1768	0.201085	1
1	2	13	51.6	1910		0.809201	
2	2	13	99.8	1831		1.48701	
3	2	13	81.4	1607		2.391279	
4	2	13	51.5	1319		2.968111	
5	1	13	92.6			3.211851	
6	2	13	57.5	1380		4.231346	
7	3	13	95.9	1206	1747	4.457359	
8	1	13	88.6			5.142588	
9	3	13	66	1221	1458	6.25048	
10	2	13	85.5	1699		6.867926	
11	3	13	83.9	1142	1893	7.438729	
12	2	13	87.7	1850		7.78365	
13	2	13	56.3	1660		8.574671	
14	2	13	93.6	1104		9.047489	
15	2	13	85.2	1135		9.495655	
16	1	13	80.4			10.68542	
17	3	13	87.1	1902	1741	11.01268	
18	1	13	75.2			11.41746	

**Radar Type 6 Statistical Performance**

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (MHz)
1	5310	9	1	333	1	5600.0, 5673.0, 5337.0, 5546.0, 5481.0, 5681.0, 5327.0, 5572.0, 5588.0, 5667.0, 5593.0, 5347.0, 5490.0, 5499.0, 5661.0, 5316.0, 5268.0, 5641.0, 5614.0, 5569.0, 5504.0, 5620.0, 5574.0, 5527.0, 5393.0, 5283.0, 5706.0, 5440.0, 5363.0, 5705.0, 5442.0, 5454.0, 5722.0, 5677.0, 5279.0, 5387.0, 5380.0, 5450.0, 5395.0, 5564.0, 5714.0, 5709.0, 5637.0, 5407.0, 5455.0, 5559.0, 5424.0, 5443.0, 5370.0, 5617.0, 5477.0, 5392.0, 5478.0, 5292.0, 5341.0, 5509.0, 5723.0, 5580.0, 5396.0, 5351.0, 5710.0, 5350.0, 5482.0, 5544.0, 5386.0, 5548.0, 5382.0, 5508.0, 5662.0, 5349.0, 5275.0, 5704.0, 5530.0, 5330.0, 5412.0, 5625.0, 5377.0, 5611.0, 5685.0, 5300.0, 5633.0, 5666.0, 5362.0, 5317.0, 5612.0, 5571.0, 5595.0, 5707.0, 5607.0, 5487.0, 5495.0, 5497.0, 5525.0, 5411.0, 5289.0, 5615.0, 5529.0, 5604.0, 5570.0, 5578.0
2	5310	9	1	333	1	5659.0, 5551.0, 5347.0, 5319.0, 5442.0, 5381.0, 5591.0, 5358.0, 5362.0, 5713.0, 5520.0, 5483.0, 5303.0, 5437.0, 5513.0, 5670.0, 5622.0, 5598.0, 5640.0, 5501.0, 5644.0, 5575.0, 5527.0, 5639.0, 5453.0, 5352.0, 5568.0, 5665.0, 5662.0, 5385.0, 5396.0, 5448.0, 5287.0, 5273.0, 5472.0, 5274.0, 5654.0, 5311.0, 5526.0, 5275.0, 5348.0, 5572.0, 5342.0, 5259.0, 5626.0, 5369.0, 5264.0, 5284.0, 5468.0, 5321.0, 5435.0, 5463.0, 5493.0, 5354.0, 5541.0, 5262.0, 5675.0, 5359.0, 5301.0, 5548.0, 5516.0, 5491.0, 5315.0, 5585.0, 5552.0, 5364.0, 5464.0, 5623.0, 5530.0, 5422.0, 5294.0, 5576.0, 5669.0, 5614.0, 5257.0, 5456.0, 5603.0, 5281.0, 5465.0, 5616.0, 5625.0, 5697.0, 5695.0, 5537.0, 5563.0, 5266.0, 5630.0, 5372.0, 5613.0, 5400.0, 5512.0, 5313.0, 5476.0, 5722.0, 5651.0, 5269.0, 5708.0, 5271.0, 5681.0, 5424.0
3	5310	9	1	333	1	5279.0, 5718.0, 5290.0, 5256.0, 5595.0, 5399.0, 5485.0, 5723.0, 5538.0, 5408.0, 5382.0, 5717.0, 5690.0, 5315.0, 5596.0, 5640.0, 5555.0, 5350.0, 5368.0, 5329.0, 5639.0, 5341.0, 5370.0, 5493.0, 5451.0, 5426.0, 5543.0, 5531.0, 5663.0, 5646.0, 5481.0, 5395.0, 5352.0, 5604.0, 5706.0, 5616.0, 5541.0, 5610.0, 5618.0, 5670.0, 5645.0, 5317.0, 5599.0, 5344.0, 5553.0, 5308.0, 5536.0, 5702.0, 5631.0, 5285.0, 5379.0, 5701.0, 5464.0, 5539.0, 5655.0, 5676.0, 5461.0, 5471.0, 5445.0, 5710.0, 5454.0, 5452.0, 5510.0, 5376.0, 5665.0, 5698.0, 5508.0, 5299.0, 5724.0, 5304.0

						5416.0, 5519.0, 5362.0, 5386.0, 5678.0, 5647.0, 5463.0, 5588.0, 5450.0, 5687.0, 5652.0, 5560.0, 5354.0, 5425.0, 5650.0, 5547.0, 5525.0, 5643.0, 5431.0, 5517.0, 5421.0, 5704.0, 5391.0, 5457.0, 5542.0, 5688.0, 5568.0, 5407.0, 5695.0, 5369.0
4	5310	9	1	333	1	5387.0, 5475.0, 5584.0, 5474.0, 5674.0, 5563.0, 5467.0, 5294.0, 5692.0, 5400.0, 5399.0, 5380.0, 5663.0, 5330.0, 5304.0, 5318.0, 5312.0, 5338.0, 5408.0, 5379.0, 5499.0, 5297.0, 5689.0, 5669.0, 5396.0, 5468.0, 5639.0, 5702.0, 5480.0, 5660.0, 5316.0, 5522.0, 5371.0, 5626.0, 5353.0, 5708.0, 5523.0, 5423.0, 5327.0, 5543.0, 5259.0, 5572.0, 5654.0, 5352.0, 5568.0, 5641.0, 5658.0, 5373.0, 5653.0, 5546.0, 5695.0, 5366.0, 5515.0, 5461.0, 5712.0, 5311.0, 5681.0, 5526.0, 5365.0, 5478.0, 5705.0, 5418.0, 5419.0, 5292.0, 5431.0, 5711.0, 5551.0, 5360.0, 5298.0, 5343.0, 5284.0, 5594.0, 5349.0, 5621.0, 5377.0, 5562.0, 5389.0, 5339.0, 5691.0, 5356.0, 5308.0, 5544.0, 5372.0, 5686.0, 5258.0, 5488.0, 5442.0, 5640.0, 5716.0, 5636.0, 5720.0, 5561.0, 5528.0, 5519.0, 5688.0, 5675.0, 5437.0, 5291.0, 5433.0, 5279.0
5	5310	9	1	333	1	5702.0, 5323.0, 5700.0, 5625.0, 5708.0, 5394.0, 5622.0, 5415.0, 5274.0, 5295.0, 5648.0, 5698.0, 5471.0, 5574.0, 5360.0, 5485.0, 5344.0, 5301.0, 5610.0, 5628.0, 5437.0, 5459.0, 5718.0, 5457.0, 5525.0, 5487.0, 5713.0, 5714.0, 5397.0, 5512.0, 5522.0, 5666.0, 5537.0, 5408.0, 5618.0, 5262.0, 5345.0, 5712.0, 5716.0, 5391.0, 5717.0, 5420.0, 5573.0, 5291.0, 5446.0, 5418.0, 5312.0, 5550.0, 5493.0, 5422.0, 5263.0, 5417.0, 5615.0, 5566.0, 5315.0, 5338.0, 5612.0, 5655.0, 5674.0, 5256.0, 5427.0, 5720.0, 5409.0, 5353.0, 5584.0, 5352.0, 5378.0, 5692.0, 5659.0, 5558.0, 5265.0, 5605.0, 5482.0, 5250.0, 5657.0, 5472.0, 5647.0, 5309.0, 5693.0, 5300.0, 5492.0, 5259.0, 5475.0, 5596.0, 5299.0, 5477.0, 5495.0, 5545.0, 5441.0, 5317.0, 5668.0, 5551.0, 5589.0, 5667.0, 5583.0, 5349.0, 5292.0, 5532.0, 5502.0, 5372.0
6	5310	9	1	333	1	5384.0, 5305.0, 5422.0, 5474.0, 5461.0, 5363.0, 5517.0, 5489.0, 5385.0, 5471.0, 5403.0, 5677.0, 5487.0, 5629.0, 5440.0, 5643.0, 5348.0, 5600.0, 5417.0, 5678.0, 5458.0, 5583.0, 5270.0, 5499.0, 5681.0, 5323.0, 5699.0, 5648.0, 5279.0, 5664.0, 5255.0, 5352.0, 5423.0, 5350.0, 5637.0, 5536.0, 5418.0, 5593.0, 5266.0, 5378.0, 5518.0, 5290.0, 5623.0, 5335.0, 5542.0, 5433.0, 5555.0, 5636.0, 5611.0, 5615.0, 5325.0, 5328.0, 5543.0, 5470.0, 5343.0, 5316.0, 5456.0, 5650.0, 5500.0, 5376.0, 5416.0, 5515.0, 5502.0, 5666.0, 5584.0,

						5485.0, 5390.0, 5572.0, 5409.0, 5369.0, 5283.0, 5625.0, 5634.0, 5546.0, 5294.0, 5557.0, 5291.0, 5368.0, 5509.0, 5715.0, 5452.0, 5313.0, 5261.0, 5565.0, 5574.0, 5510.0, 5371.0, 5482.0, 5635.0, 5275.0, 5688.0, 5298.0, 5319.0, 5526.0, 5435.0, 5614.0, 5361.0, 5349.0, 5597.0, 5264.0
7	5310	9	1	333	1	5499.0, 5528.0, 5642.0, 5657.0, 5456.0, 5368.0, 5276.0, 5608.0, 5311.0, 5629.0, 5427.0, 5485.0, 5345.0, 5627.0, 5403.0, 5612.0, 5585.0, 5517.0, 5292.0, 5359.0, 5316.0, 5571.0, 5313.0, 5512.0, 5707.0, 5603.0, 5713.0, 5651.0, 5378.0, 5346.0, 5357.0, 5590.0, 5330.0, 5625.0, 5719.0, 5421.0, 5454.0, 5315.0, 5279.0, 5451.0, 5572.0, 5353.0, 5418.0, 5685.0, 5431.0, 5530.0, 5484.0, 5303.0, 5623.0, 5420.0, 5560.0, 5392.0, 5551.0, 5452.0, 5620.0, 5664.0, 5626.0, 5334.0, 5638.0, 5695.0, 5598.0, 5439.0, 5342.0, 5609.0, 5704.0, 5416.0, 5669.0, 5289.0, 5508.0, 5404.0, 5406.0, 5481.0, 5504.0, 5640.0, 5337.0, 5687.0, 5721.0, 5520.0, 5275.0, 5314.0, 5444.0, 5502.0, 5397.0, 5636.0, 5633.0, 5724.0, 5468.0, 5333.0, 5604.0, 5684.0, 5340.0, 5610.0, 5267.0, 5681.0, 5374.0, 5291.0, 5320.0, 5376.0, 5583.0, 5667.0
8	5310	9	1	333	1	5454.0, 5459.0, 5575.0, 5342.0, 5531.0, 5699.0, 5572.0, 5710.0, 5312.0, 5453.0, 5287.0, 5721.0, 5546.0, 5411.0, 5264.0, 5254.0, 5686.0, 5448.0, 5672.0, 5468.0, 5352.0, 5479.0, 5279.0, 5509.0, 5658.0, 5559.0, 5703.0, 5452.0, 5624.0, 5549.0, 5605.0, 5434.0, 5306.0, 5299.0, 5350.0, 5659.0, 5706.0, 5481.0, 5473.0, 5394.0, 5284.0, 5722.0, 5719.0, 5437.0, 5596.0, 5380.0, 5334.0, 5366.0, 5356.0, 5262.0, 5501.0, 5338.0, 5307.0, 5412.0, 5493.0, 5318.0, 5329.0, 5620.0, 5651.0, 5618.0, 5633.0, 5528.0, 5319.0, 5324.0, 5276.0, 5558.0, 5561.0, 5464.0, 5354.0, 5370.0, 5297.0, 5359.0, 5381.0, 5407.0, 5278.0, 5308.0, 5392.0, 5335.0, 5447.0, 5383.0, 5427.0, 5655.0, 5485.0, 5385.0, 5590.0, 5636.0, 5587.0, 5586.0, 5347.0, 5472.0, 5625.0, 5263.0, 5283.0, 5705.0, 5565.0, 5529.0, 5581.0, 5277.0, 5422.0, 5332.0
9	5310	9	1	333	1	5309.0, 5616.0, 5682.0, 5663.0, 5360.0, 5479.0, 5473.0, 5701.0, 5515.0, 5640.0, 5398.0, 5403.0, 5272.0, 5475.0, 5252.0, 5495.0, 5651.0, 5496.0, 5656.0, 5277.0, 5367.0, 5492.0, 5537.0, 5528.0, 5313.0, 5384.0, 5632.0, 5525.0, 5545.0, 5606.0, 5425.0, 5271.0, 5397.0, 5657.0, 5361.0, 5723.0, 5323.0, 5699.0, 5586.0, 5407.0, 5285.0, 5540.0, 5339.0, 5594.0, 5533.0, 5572.0, 5315.0, 5497.0, 5459.0, 5366.0, 5474.0, 5347.0, 5673.0, 5482.0, 5481.0, 5521.0, 5444.0, 5697.0, 5679.0, 5531.0,



						5696.0, 5381.0, 5609.0, 5604.0, 5343.0, 5255.0, 5301.0, 5635.0, 5362.0, 5710.0, 5419.0, 5460.0, 5578.0, 5607.0, 5589.0, 5511.0, 5592.0, 5290.0, 5650.0, 5469.0, 5557.0, 5364.0, 5653.0, 5513.0, 5334.0, 5445.0, 5429.0, 5595.0, 5447.0, 5695.0, 5707.0, 5677.0, 5636.0, 5574.0, 5666.0, 5476.0, 5678.0, 5517.0, 5503.0, 5374.0
10	5310	9	1	333	1	5627.0, 5510.0, 5448.0, 5543.0, 5411.0, 5357.0, 5716.0, 5561.0, 5651.0, 5712.0, 5343.0, 5652.0, 5480.0, 5537.0, 5312.0, 5670.0, 5432.0, 5361.0, 5392.0, 5449.0, 5337.0, 5320.0, 5375.0, 5280.0, 5648.0, 5564.0, 5250.0, 5406.0, 5253.0, 5541.0, 5358.0, 5368.0, 5530.0, 5463.0, 5284.0, 5528.0, 5661.0, 5303.0, 5347.0, 5319.0, 5285.0, 5292.0, 5462.0, 5414.0, 5653.0, 5620.0, 5428.0, 5676.0, 5430.0, 5688.0, 5644.0, 5394.0, 5554.0, 5666.0, 5677.0, 5444.0, 5662.0, 5559.0, 5697.0, 5281.0, 5519.0, 5338.0, 5324.0, 5583.0, 5491.0, 5289.0, 5440.0, 5359.0, 5342.0, 5551.0, 5555.0, 5720.0, 5713.0, 5495.0, 5650.0, 5603.0, 5691.0, 5378.0, 5455.0, 5606.0, 5633.0, 5297.0, 5263.0, 5408.0, 5341.0, 5692.0, 5719.0, 5381.0, 5367.0, 5339.0, 5637.0, 5629.0, 5364.0, 5257.0, 5671.0, 5452.0, 5525.0, 5305.0, 5565.0, 5404.0
11	5310	9	1	333	1	5679.0, 5294.0, 5472.0, 5367.0, 5513.0, 5663.0, 5287.0, 5695.0, 5451.0, 5336.0, 5643.0, 5268.0, 5539.0, 5426.0, 5255.0, 5610.0, 5262.0, 5366.0, 5647.0, 5396.0, 5579.0, 5644.0, 5717.0, 5715.0, 5642.0, 5681.0, 5433.0, 5588.0, 5618.0, 5438.0, 5295.0, 5572.0, 5605.0, 5661.0, 5250.0, 5592.0, 5437.0, 5301.0, 5326.0, 5469.0, 5471.0, 5578.0, 5553.0, 5422.0, 5325.0, 5497.0, 5273.0, 5388.0, 5662.0, 5527.0, 5264.0, 5648.0, 5288.0, 5627.0, 5452.0, 5420.0, 5530.0, 5385.0, 5482.0, 5361.0, 5597.0, 5289.0, 5322.0, 5449.0, 5395.0, 5348.0, 5297.0, 5545.0, 5315.0, 5327.0, 5454.0, 5700.0, 5541.0, 5352.0, 5403.0, 5290.0, 5654.0, 5299.0, 5347.0, 5606.0, 5577.0, 5614.0, 5543.0, 5374.0, 5629.0, 5676.0, 5279.0, 5536.0, 5567.0, 5343.0, 5580.0, 5499.0, 5439.0, 5656.0, 5688.0, 5501.0, 5598.0, 5705.0, 5714.0, 5263.0
12	5310	9	1	333	1	5390.0, 5350.0, 5619.0, 5612.0, 5380.0, 5597.0, 5584.0, 5331.0, 5500.0, 5517.0, 5514.0, 5448.0, 5408.0, 5312.0, 5427.0, 5559.0, 5468.0, 5360.0, 5266.0, 5678.0, 5341.0, 5374.0, 5465.0, 5458.0, 5397.0, 5700.0, 5469.0, 5661.0, 5270.0, 5497.0, 5673.0, 5327.0, 5566.0, 5351.0, 5702.0, 5708.0, 5411.0, 5405.0, 5620.0, 5601.0, 5284.0, 5675.0, 5420.0, 5658.0, 5526.0, 5324.0, 5669.0, 5348.0, 5343.0, 5664.0, 5567.0, 5373.0, 5430.0, 5328.0, 5532.0,

						5574.0, 5473.0, 5456.0, 5649.0, 5435.0, 5686.0, 5489.0, 5571.0, 5691.0, 5330.0, 5720.0, 5410.0, 5689.0, 5653.0, 5594.0, 5504.0, 5599.0, 5478.0, 5291.0, 5288.0, 5646.0, 5434.0, 5345.0, 5598.0, 5352.0, 5615.0, 5623.0, 5672.0, 5486.0, 5533.0, 5306.0, 5323.0, 5506.0, 5445.0, 5508.0, 5256.0, 5332.0, 5665.0, 5394.0, 5336.0, 5340.0, 5651.0, 5618.0, 5659.0, 5349.0
13	5310	9	1	333	1	5649.0, 5357.0, 5409.0, 5544.0, 5637.0, 5493.0, 5591.0, 5322.0, 5436.0, 5661.0, 5278.0, 5459.0, 5269.0, 5465.0, 5511.0, 5530.0, 5408.0, 5439.0, 5497.0, 5414.0, 5516.0, 5699.0, 5334.0, 5722.0, 5482.0, 5496.0, 5626.0, 5418.0, 5368.0, 5434.0, 5645.0, 5347.0, 5339.0, 5388.0, 5300.0, 5566.0, 5568.0, 5539.0, 5601.0, 5579.0, 5543.0, 5708.0, 5545.0, 5718.0, 5267.0, 5717.0, 5602.0, 5487.0, 5606.0, 5448.0, 5495.0, 5541.0, 5547.0, 5323.0, 5452.0, 5560.0, 5515.0, 5523.0, 5573.0, 5605.0, 5586.0, 5503.0, 5709.0, 5330.0, 5316.0, 5328.0, 5643.0, 5711.0, 5276.0, 5641.0, 5279.0, 5616.0, 5422.0, 5311.0, 5461.0, 5302.0, 5435.0, 5283.0, 5349.0, 5650.0, 5281.0, 5618.0, 5509.0, 5712.0, 5538.0, 5617.0, 5614.0, 5668.0, 5275.0, 5595.0, 5537.0, 5583.0, 5389.0, 5517.0, 5457.0, 5658.0, 5288.0, 5268.0, 5343.0, 5387.0
14	5310	9	1	333	1	5331.0, 5382.0, 5305.0, 5566.0, 5646.0, 5586.0, 5540.0, 5444.0, 5562.0, 5537.0, 5327.0, 5580.0, 5286.0, 5487.0, 5290.0, 5593.0, 5396.0, 5713.0, 5493.0, 5279.0, 5510.0, 5350.0, 5567.0, 5359.0, 5541.0, 5710.0, 5590.0, 5534.0, 5587.0, 5268.0, 5517.0, 5410.0, 5354.0, 5332.0, 5281.0, 5471.0, 5659.0, 5577.0, 5614.0, 5696.0, 5563.0, 5311.0, 5705.0, 5618.0, 5333.0, 5597.0, 5364.0, 5559.0, 5283.0, 5343.0, 5356.0, 5455.0, 5464.0, 5520.0, 5387.0, 5252.0, 5251.0, 5412.0, 5550.0, 5538.0, 5634.0, 5442.0, 5689.0, 5573.0, 5340.0, 5295.0, 5496.0, 5352.0, 5687.0, 5617.0, 5345.0, 5502.0, 5679.0, 5702.0, 5373.0, 5335.0, 5402.0, 5519.0, 5625.0, 5692.0, 5394.0, 5576.0, 5595.0, 5666.0, 5392.0, 5560.0, 5411.0, 5574.0, 5683.0, 5631.0, 5289.0, 5344.0, 5663.0, 5424.0, 5704.0, 5561.0, 5293.0, 5491.0, 5589.0, 5671.0
15	5310	9	1	333	1	5544.0, 5631.0, 5692.0, 5564.0, 5517.0, 5355.0, 5561.0, 5546.0, 5688.0, 5296.0, 5494.0, 5319.0, 5369.0, 5493.0, 5704.0, 5557.0, 5713.0, 5366.0, 5279.0, 5250.0, 5408.0, 5630.0, 5657.0, 5568.0, 5388.0, 5593.0, 5385.0, 5691.0, 5381.0, 5294.0, 5436.0, 5596.0, 5339.0, 5580.0, 5722.0, 5327.0, 5531.0, 5456.0, 5406.0, 5404.0, 5370.0, 5486.0, 5451.0, 5402.0, 5642.0, 5433.0, 5575.0, 5430.0, 5538.0, 5398.0,

						5487.0, 5274.0, 5574.0, 5287.0, 5623.0, 5565.0, 5587.0, 5332.0, 5459.0, 5384.0, 5352.0, 5599.0, 5299.0, 5310.0, 5264.0, 5672.0, 5652.0, 5320.0, 5525.0, 5611.0, 5468.0, 5312.0, 5328.0, 5548.0, 5514.0, 5603.0, 5504.0, 5643.0, 5343.0, 5668.0, 5260.0, 5268.0, 5683.0, 5255.0, 5335.0, 5265.0, 5464.0, 5505.0, 5697.0, 5478.0, 5576.0, 5696.0, 5495.0, 5715.0, 5529.0, 5521.0, 5439.0, 5351.0, 5254.0, 5440.0
16	5310	9	1	333	1	5541.0, 5397.0, 5310.0, 5387.0, 5393.0, 5514.0, 5681.0, 5279.0, 5591.0, 5572.0, 5632.0, 5357.0, 5468.0, 5588.0, 5263.0, 5332.0, 5538.0, 5377.0, 5512.0, 5557.0, 5430.0, 5471.0, 5267.0, 5604.0, 5691.0, 5665.0, 5720.0, 5634.0, 5689.0, 5522.0, 5361.0, 5312.0, 5395.0, 5339.0, 5434.0, 5385.0, 5502.0, 5445.0, 5709.0, 5452.0, 5680.0, 5551.0, 5433.0, 5478.0, 5359.0, 5515.0, 5257.0, 5351.0, 5411.0, 5355.0, 5371.0, 5509.0, 5610.0, 5487.0, 5394.0, 5481.0, 5438.0, 5275.0, 5405.0, 5710.0, 5407.0, 5650.0, 5698.0, 5648.0, 5644.0, 5338.0, 5278.0, 5719.0, 5614.0, 5329.0, 5289.0, 5607.0, 5408.0, 5608.0, 5424.0, 5601.0, 5712.0, 5449.0, 5520.0, 5470.0, 5628.0, 5646.0, 5348.0, 5655.0, 5381.0, 5453.0, 5365.0, 5683.0, 5292.0, 5695.0, 5293.0, 5364.0, 5274.0, 5722.0, 5252.0, 5593.0, 5271.0, 5336.0, 5327.0, 5305.0
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29	5310	9	1	333	1	5464.0, 5636.0, 5420.0, 5674.0, 5646.0, 5689.0, 5562.0, 5459.0, 5663.0, 5532.0, 5451.0, 5570.0, 5599.0, 5591.0, 5432.0, 5352.0, 5585.0, 5399.0, 5473.0, 5269.0, 5508.0, 5374.0, 5551.0, 5447.0, 5295.0, 5271.0, 5611.0, 5289.0, 5662.0, 5594.0, 5341.0, 5286.0, 5324.0, 5520.0, 5288.0, 5545.0, 5538.0, 5491.0, 5456.0, 5334.0, 5354.0, 5518.0, 5355.0, 5710.0, 5467.0, 5326.0, 5650.0, 5280.0, 5557.0, 5470.0, 5388.0, 5465.0, 5330.0, 5411.0, 5673.0, 5279.0, 5433.0, 5549.0, 5439.0, 5524.0, 5438.0, 5369.0, 5495.0, 5661.0, 5688.0, 5490.0, 5606.0, 5660.0, 5427.0, 5643.0, 5578.0, 5320.0, 5287.0, 5259.0, 5418.0, 5487.0, 5579.0, 5563.0, 5569.0, 5550.0, 5547.0, 5258.0, 5724.0, 5678.0, 5472.0, 5612.0, 5262.0, 5462.0, 5625.0, 5548.0, 5588.0, 5595.0, 5669.0, 5265.0, 5723.0, 5635.0, 5298.0, 5533.0, 5368.0, 5497.0
30	5310	9	1	333	1	5669.0, 5477.0, 5290.0, 5261.0, 5483.0, 5406.0, 5643.0, 5404.0, 5268.0, 5408.0, 5634.0, 5716.0, 5509.0, 5688.0, 5679.0, 5623.0, 5389.0, 5642.0, 5397.0, 5291.0, 5647.0, 5394.0, 5355.0, 5395.0, 5531.0,

						5341.0, 5721.0, 5402.0, 5564.0, 5565.0, 5574.0, 5435.0, 5367.0, 5511.0, 5513.0, 5661.0, 5616.0, 5584.0, 5267.0, 5471.0, 5545.0, 5398.0, 5569.0, 5474.0, 5445.0, 5582.0, 5713.0, 5256.0, 5270.0, 5510.0, 5524.0, 5298.0, 5457.0, 5591.0, 5693.0, 5595.0, 5418.0, 5369.0, 5656.0, 5407.0, 5681.0, 5489.0, 5515.0, 5438.0, 5592.0, 5442.0, 5626.0, 5488.0, 5385.0, 5356.0, 5535.0, 5667.0, 5709.0, 5638.0, 5472.0, 5272.0, 5596.0, 5296.0, 5476.0, 5570.0, 5660.0, 5275.0, 5484.0, 5567.0, 5424.0, 5309.0, 5548.0, 5544.0, 5251.0, 5694.0, 5717.0, 5257.0, 5652.0, 5554.0, 5294.0, 5521.0, 5321.0, 5443.0, 5581.0, 5714.0
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**20MHz**

<b>Radar SignalType</b>	<b>Waveform/Trial Number</b>	<b>Detection (%)</b>	<b>Limit (%)</b>	<b>Pass/Fail</b>
<b>Type 1A</b>	15	100%	60%	pass
<b>Type 1B</b>	15	100%	60%	pass
<b>Type 2</b>	30	93.3%	60%	Pass
<b>Type 3</b>	30	93.3%	60%	Pass
<b>Type 4</b>	30	93.3 %	60%	Pass
<b>Aggregate(Type1 to 4)</b>	120	95%	80%	Pass
<b>Type 5</b>	120	100 %	80%	Pass
<b>Type 6</b>	30	96.67%	70%	Pass

Please refer to the following statistical tables:

**5320MHz****Radar Type 1A Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5320	76	1	698	1
2	5320	95	1	558	1
3	5320	59	1	898	1
4	5320	58	1	918	1
5	5320	72	1	738	1
6	5320	70	1	758	1
7	5320	78	1	678	1
8	5320	92	1	578	1
9	5320	83	1	638	1
10	5320	102	1	518	1
11	5320	18	1	3066	1
12	5320	68	1	778	1
13	5320	62	1	858	1
14	5320	81	1	658	1
15	5320	67	1	798	1
Detection Percentage:100 % (>60%)					

**Radar Type 1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5320	32	1	1672	1
2	5320	18	1	3024	1
3	5320	23	1	2295	1
4	5320	64	1	826	1
5	5320	22	1	2406	1
6	5320	73	1	727	1
7	5320	33	1	1603	1
8	5320	21	1	2588	1
9	5320	33	1	1604	1
10	5320	74	1	714	1
11	5320	26	1	2079	1
12	5320	36	1	1470	1
13	5320	35	1	1524	1
14	5320	55	1	975	1
15	5320	36	1	1490	1
Detection Percentage: 100 % (>60%)					

**Radar Type 2 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5320	23	1.5	214	0
2	5320	28	4.5	202	1
3	5320	28	1	215	1
4	5320	29	1.7	206	1
5	5320	28	4.6	164	0
6	5320	25	3.1	182	1
7	5320	29	1	203	1
8	5320	27	4.6	200	1
9	5320	26	1.6	208	1
10	5320	25	1.4	179	1
11	5320	29	1.4	194	1
12	5320	23	3	228	1
13	5320	27	4.2	201	1
14	5320	28	2.7	159	1
15	5320	26	1.7	210	1
16	5320	27	1.5	156	1
17	5320	28	4.4	220	1
18	5320	25	4.7	229	1
19	5320	24	1.6	207	1
20	5320	26	1.4	211	1
21	5320	28	2.4	201	1
22	5320	23	1.7	222	1
23	5320	28	2	223	1
24	5320	24	1.5	159	1
25	5320	23	3.3	172	1
26	5320	29	4.7	201	1
27	5320	23	3	206	1
28	5320	23	3.2	221	1
29	5320	24	2.9	197	1
30	5320	29	3.7	157	1
<b>Detection Percentage: 93.3 % (&gt;60%)</b>					

**Radar Type 3 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5320	16	9.2	223	1
2	5320	18	6.2	279	1
3	5320	18	6.4	205	1
4	5320	18	9.1	297	1
5	5320	16	8.3	248	1
6	5320	16	7.1	217	1
7	5320	17	9.4	370	1
8	5320	16	8.2	486	1
9	5320	18	9.2	294	0
10	5320	17	6.2	365	1
11	5320	16	7.7	218	1
12	5320	16	6.9	216	1
13	5320	17	9.3	437	1
14	5320	16	9.8	354	1
15	5320	17	8.3	253	1
16	5320	18	9.9	263	1
17	5320	17	6.7	324	1
18	5320	17	10	286	1
19	5320	17	8.8	480	0
20	5320	16	10	428	1
21	5320	18	9.7	399	1
22	5320	18	6.7	479	1
23	5320	16	9.6	438	1
24	5320	17	7.3	330	1
25	5320	17	8.2	270	1
26	5320	17	7.4	208	1
27	5320	17	8.4	311	1
28	5320	16	8.1	329	1
29	5320	16	9.1	314	1
30	5320	16	9.6	273	1
<b>Detection Percentage: 93.3 % (&gt;60%)</b>					

**Radar Type 4 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5320	16	11.3	284	1
2	5320	15	13.1	437	1
3	5320	16	19.1	314	1
4	5320	14	18.2	321	1
5	5320	15	20	230	1
6	5320	16	14.9	381	1
7	5320	13	15.9	371	1
8	5320	16	15.5	212	1
9	5320	14	15.4	216	1
10	5320	16	18.3	280	1
11	5320	15	16.1	305	1
12	5320	14	12.6	489	0
13	5320	12	17.4	365	1
14	5320	12	16.3	340	1
15	5320	12	16.1	266	1
16	5320	15	12	309	1
17	5320	14	16.3	441	1
18	5320	13	13.7	468	1
19	5320	14	13.3	373	1
20	5320	14	11.3	478	1
21	5320	15	11.4	325	1
22	5320	12	20	473	1
23	5320	15	13.8	497	1
24	5320	13	16	288	1
25	5320	16	18.1	335	1
26	5320	12	13.9	265	1
27	5320	15	12.2	230	0
28	5320	12	17.8	276	1
29	5320	15	19.7	439	1
30	5320	16	11.8	393	1
<b>Detection Percentage: 93.3 % (&gt;60%)</b>					

**Radar Type 5 Case 1 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5320.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	5	71.7	1961	1811	0.281546	1
1	2	5	88.1	1794		0.713137	
2	3	5	89.9	1005	1795	1.749636	
3	1	5	95			2.335303	
4	2	5	60.5	1659		3.153274	
5	1	5	59.7			3.7049	
6	2	5	93.8	1857		4.929686	
7	2	5	74.9	1981		5.546473	
8	2	5	91.6	1747		6.217283	
9	1	5	81.1			6.467518	
10	1	5	94.9			7.674675	
11	2	5	71.5	1819		8.000726	
12	1	5	51.7			8.595542	
13	1	5	86.5			9.325758	
14	2	5	59.1	1302		10.24371	
15	3	5	52.1	1240	1977	10.61803	
16	3	5	59.6	1714	1595	11.56322	

Statistics 2 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	8	60.3	1859		0.084082	1
1	2	8	98.8	1449		0.699712	
2	2	8	98.2	1544		1.966534	
3	2	8	83.2	1794		2.488327	
4	2	8	78.3	1465		2.748282	
5	2	8	66.6	1370		3.937062	
6	3	8	64.6	1588	1255	4.530016	
7	2	8	83.1	1679		5.002323	
8	3	8	61.1	1715	1593	5.489475	
9	3	8	70.8	1332	1168	6.096758	
10	1	8	77.6			6.938029	
11	1	8	85			7.989201	
12	2	8	67.5	1424		8.222067	
13	2	8	70.1	1400		8.777896	
14	2	8	83.6	1488		9.908131	
15	1	8	88.7			10.58908	
16	2	8	52.6	1670		10.73307	
17	3	8	92.1	1270	1370	11.64297	

Statistics 3 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	85.7	1154		0.544204	1
1	3	12	87	1498	1719	1.252598	
2	3	12	71.3	1120	1165	1.729808	
3	2	12	94.4	1858		3.207123	
4	1	12	77.4			4.182608	
5	1	12	66.6			4.514229	
6	1	12	73			5.857731	
7	2	12	57.8	1161		6.0284	
8	1	12	79.4			7.646684	
9	1	12	98.3			8.174547	
10	2	12	84.2	1271		8.93166	
11	3	12	91.4	1495	1280	9.801095	
12	3	12	90.7	1499	1469	10.43307	
13	2	12	99.7	1073		11.2257	

Statistics 4 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	66.5	1719		0.317175	1
1	1	16	89.5			0.674423	
2	2	16	53.7	1250		1.349947	
3	1	16	60.6			2.579302	
4	2	16	85	1310		2.942154	
5	1	16	91.1			3.759454	
6	3	16	55.2	1030	1512	4.526324	
7	1	16	79.8			5.244518	
8	2	16	55.4	1648		5.485135	
9	3	16	80.8	1737	1489	6.224336	
10	3	16	51.6	1117	1546	6.97885	
11	2	16	78.3	1075		7.484662	
12	1	16	91.1			8.243665	
13	3	16	56.1	1973	1079	8.98713	
14	3	16	56.1	1838	1691	9.69482	
15	2	16	92.1	1584		10.63572	
16	3	16	57.9	1560	1473	11.20713	
17	3	16	100	1540	1416	11.44913	

Statistics 5(ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	57	1213		0.34356	1
1	1	10	95.2			1.279602	
2	1	10	64.5			2.222813	
3	2	10	65.8	1493		3.50237	
4	3	10	94.9	1049	1237	4.352197	
5	2	10	95.3	1869		5.669349	
6	3	10	82.2	1076	1558	6.16758	
7	3	10	62.7	1983	1050	7.307386	
8	2	10	80.6	1225		8.851257	
9	1	10	86			9.969963	
10	2	10	53.8	1162		10.04932	
11	2	10	81.9	1640		11.96646	

Statistics 6 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	9	94.9	1910		0.801108	1
1	1	9	95.9			1.428984	
2	1	9	91.5			2.640239	
3	3	9	77.6	1075	1692	3.669283	
4	2	9	50.2	1208		5.025032	
5	2	9	71.6	1211		6.495286	
6	2	9	97.6	1568		6.692219	
7	3	9	94.2	1569	1338	8.184293	
8	2	9	95.1	1942		9.617843	
9	2	9	68.3	1819		10.63902	
10	2	9	87.8	1218		11.74733	



Statistics 7(ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	8	88.2	1025		0.079068	1
1	2	8	50.4	1140		1.931045	
2	3	8	93.6	1729	1842	2.553024	
3	2	8	77.3	1762		3.167444	
4	2	8	83.5	1331		4.285976	
5	3	8	88.4	1344	1791	5.462895	
6	2	8	58.9	1802		6.875673	
7	1	8	62.6			7.391602	
8	2	8	93.6	1361		8.358692	
9	3	8	67.7	1968	1213	9.729871	
10	2	8	84.9	1300		10.95395	
11	1	8	55.1			11.61357	

Statistics 8 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	7	52.8	1580	1940	0.442325	1
1	2	7	62.4	1897		0.953241	
2	2	7	69.9	1072		1.581618	
3	3	7	53.9	1839	1194	2.241188	
4	3	7	58.4	1007	1854	2.855845	
5	1	7	92.4			3.5595	
6	2	7	85.5	1941		4.114085	
7	3	7	61.9	1333	1734	4.970254	
8	2	7	74.2	1578		5.631168	
9	3	7	56.1	1258	1467	6.238888	
10	3	7	92.3	1993	1320	6.922164	
11	2	7	81.2	1046		7.417756	
12	1	7	87.9			8.647528	
13	3	7	97.1	1139	1228	8.738103	
14	2	7	85.6	1323		9.617308	
15	1	7	90.1			10.13296	
16	3	7	71.3	1590	1164	11.08862	
17	2	7	70.8	1385		11.57458	

Statistics 9 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	11	75.9	1116		0.40206	1
1	2	11	72.3	1851		1.183279	
2	1	11	98			1.704128	
3	2	11	83.7	1671		2.021083	
4	3	11	57.9	1187	1987	2.472498	
5	1	11	57.8			3.299456	
6	1	11	74.8			4.083969	
7	1	11	79.4			4.343123	
8	1	11	66.7			4.867184	
9	2	11	62.2	1685		5.618209	
10	3	11	69.8	1505	1803	6.396545	
11	1	11	64.2			6.992238	
12	2	11	79.5	1283		7.373973	
13	1	11	71.2			8.143767	
14	3	11	98.9	1016	1049	8.928994	
15	3	11	96.1	1209	1056	9.076046	
16	2	11	63.9	1969		9.656914	
17	2	11	53.5	1340		10.38395	
18	2	11	56.1	1976		11.13167	
19	2	11	63.5	1760		11.69426	

Statistics 10 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	9	82.7	1743		0.59277	1
1	2	9	99.2	1850		0.96532	
2	2	9	71.4	1981		2.227008	
3	1	9	93.1			3.040739	
4	1	9	85.1			3.947347	
5	2	9	78	1850		5.311098	
6	2	9	55.9	1924		6.328409	
7	2	9	91.9	1140		6.896705	
8	2	9	55.2	1708		8.118623	
9	2	9	62.9	1573		8.858955	
10	2	9	75.6	1218		9.764774	
11	3	9	57.3	1295	1069	11.02283	
12	2	9	58.4	1675		11.48576	

**Radar Type 5 Case 2 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5314.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	11	94.8			0.33145	1
1	1	11	78.2			2.645936	
2	3	11	67.4	1470	1754	3.05343	
3	1	11	81.9			5.144619	
4	2	11	63.1	1776		5.576925	
5	3	11	57.2	1798	1735	7.060071	
6	3	11	90.6	1650	1211	8.687198	
7	2	11	67.8	1920		9.480904	
8	1	11	93.3			10.6739	

Statistics 2 (ChirpCenter Frequency: 5314.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	10	63.7			0.402608	1
1	2	10	50.1	1928		1.260435	
2	1	10	79.3			1.802718	
3	2	10	67.7	1966		2.790414	
4	1	10	99			3.817961	
5	1	10	71.9			4.034943	
6	3	10	91.9	1549	1274	4.869928	
7	2	10	85.6	1717		6.318466	
8	2	10	53.5	1511		7.104255	
9	2	10	57.6	1960		7.867085	
10	3	10	51.8	1673	1556	8.483499	
11	3	10	79.8	1764	1702	9.542971	
12	2	10	57.1	1791		10.32724	
13	1	10	53.4			10.67487	
14	1	10	55.8			11.41651	

Statistics 3 (ChirpCenter Frequency: 5314.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	56.7	1535		0.59721	1
1	3	10	95.1	1530	1004	0.896877	
2	2	10	80.8	1829		2.056654	
3	1	10	54.2			2.729041	
4	1	10	92.1			3.644713	
5	3	10	89.1	1794	1842	4.04334	
6	2	10	60.2	1278		4.824494	
7	3	10	79.4	1370	1300	5.925849	
8	3	10	78	1283	1102	6.158077	
9	2	10	70.3	1631		6.809987	
10	3	10	60.8	1811	1083	7.834	
11	2	10	89.1	1136		8.254327	
12	1	10	81.5			9.647935	
13	2	10	89.9	1596		10.18971	
14	1	10	57			11.09701	
15	2	10	50.7	1905		11.69593	

Statistics 4 (ChirpCenter Frequency: 5316.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	15	70.3	1194		0.586477	1
1	3	15	64.6	1515	1397	1.621643	
2	1	15	85.3			2.989665	
3	1	15	89.3			4.423873	
4	2	15	63.7	1431		5.664979	
5	3	15	61	1409	1406	6.986465	
6	1	15	57.7			8.71066	
7	2	15	68.6	1783		9.900332	
8	1	15	53.4			11.59673	

Statistics 5 (ChirpCenter Frequency: 5317.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	18	62.6	1948	1247	0.52851	1
1	2	18	73.8	1990		1.032476	
2	1	18	57.9			1.335298	
3	3	18	98.5	1682	1327	2.197256	
4	2	18	84.9	1114		2.618584	
5	2	18	79	1876		3.264231	
6	2	18	55.7	1666		3.958029	
7	1	18	84.1			5.00418	
8	3	18	74.1	1319	1489	5.369273	
9	3	18	73.5	1631	1805	5.742003	
10	3	18	68.9	1843	1263	6.432811	
11	1	18	83.5			7.294466	
12	1	18	94.7			8.029299	
13	2	18	81.8	1591		8.308453	
14	2	18	52.1	1617		9.430591	
15	2	18	60.8	1414		9.799223	
16	3	18	92.4	1133	1095	10.49732	
17	3	18	91.1	1092	1036	10.99758	
18	3	18	60.1	1858	1822	11.61198	

Statistics 6 (ChirpCenter Frequency: 5316.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	82.1	1305		0.994178	1
1	1	16	64.7			1.654571	
2	2	16	76.3	1038		2.653596	
3	2	16	66.1	1499		4.202271	
4	2	16	99.3	1663		5.992886	
5	2	16	65.4	1607		6.286392	
6	2	16	64.9	1666		7.25786	
7	3	16	52.2	1555	1353	8.90614	
8	3	16	50.9	1314	1506	10.66106	
9	2	16	55.8	1411		11.64699	

## Statistics 7 (ChirpCenter Frequency: 5317.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	18	90.9	1950		0.665647	1
1	1	18	78.8			2.022675	
2	3	18	64.3	1935	1206	2.889931	
3	2	18	66.9	1702		5.078831	
4	2	18	91.9	1034		6.152816	
5	1	18	80.4			7.134066	
6	3	18	76.6	1036	1991	8.683719	
7	3	18	76.7	1136	1301	10.43558	
8	3	18	68.7	1583	1145	10.79446	

## Statistics 8 (ChirpCenter Frequency: 5313.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	90	1609		0.61427	1
1	2	7	67.5	1592		0.849566	
2	2	7	98.6	1519		2.11056	
3	3	7	64	1411	1087	3.018641	
4	1	7	72.7			3.818895	
5	2	7	85.7	1256		4.049652	
6	3	7	77.1	1553	1625	5.113312	
7	3	7	56.6	1923	1772	5.665272	
8	2	7	95.1	1917		7.017217	
9	1	7	70.1			7.860905	
10	1	7	75.8			8.036142	
11	2	7	53.9	1216		9.270885	
12	1	7	95.9			10.13749	
13	3	7	54.5	1492	1163	11.00112	
14	1	7	85.6			11.57021	

## Statistics 9 (ChirpCenter Frequency: 5313.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	8	66.3	1811	1254	0.01918	1
1	2	8	63.9	1216		1.46603	
2	3	8	75.4	1405	1309	2.497014	
3	1	8	73.8			3.558127	
4	2	8	68.4	1469		4.353995	
5	3	8	70.9	1984	1818	5.264959	
6	3	8	84.9	1559	1806	5.822263	
7	1	8	58.2			6.482368	
8	3	8	67.6	1985	1044	7.931174	
9	3	8	67.5	1518	1797	8.934723	
10	1	8	50.7			9.405703	
11	3	8	68	1502	1528	10.91624	
12	2	8	71.1	1085		11.16239	

## Statistics 10 (ChirpCenter Frequency: 5312.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	6	91.1			0.103993	1
1	2	6	98.7	1371		0.754842	
2	3	6	79.1	1949	1307	1.579623	
3	1	6	65.8			2.49077	
4	3	6	71	1944	1133	2.832897	
5	2	6	83.6	1855		3.689904	
6	2	6	90.1	1452		4.35611	
7	1	6	63.2			4.717889	
8	3	6	51.9	1682	1836	5.166547	
9	1	6	66.5			6.105927	
10	3	6	90	1714	1696	6.4009	
11	3	6	92.1	1346	1566	7.148656	
12	2	6	75.9	1853		8.187316	
13	3	6	50	1345	1913	8.812571	
14	2	6	85.1	1280		9.394072	
15	3	6	94.9	1705	1313	9.985773	
16	2	6	55.5	1145		10.48084	
17	2	6	56.1	1682		10.95986	
18	2	6	59.7	1563		11.74981	

**Radar Type 5 Case 3 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	17	72.7	1723	1760	1.19129	1
1	1	17	56.4			1.8259	
2	2	17	85.9	1285		3.287174	
3	3	17	60.8	1185	1184	4.763287	
4	2	17	74.8	1035		5.781771	
5	2	17	50.2	1725		7.007522	
6	2	17	86.5	1040		8.463382	
7	3	17	63	1430	1578	10.53901	
8	3	17	60.2	1349	1746	10.69176	

Statistics 2 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	15	74.4			0.844614	1
1	3	15	97.2	1881	1484	1.365663	
2	2	15	75.2	1115		2.382504	
3	2	15	67.3	1597		3.613182	
4	2	15	60.6	1313		4.898029	
5	1	15	78.9			5.685818	
6	1	15	83.1			6.576196	
7	1	15	68.3			8.070256	
8	2	15	91	1460		9.440098	
9	1	15	56.2			9.820029	
10	1	15	84.4			11.62338	



## Statistics 3 (ChirpCenter Frequency: 5326.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	9	52.2	1492		0.128088	1
1	2	9	58.9	1068		1.828485	
2	3	9	81.7	1828	1340	2.584407	
3	1	9	66.4			3.857147	
4	2	9	79.4	1611		5.179151	
5	1	9	71			6.915547	
6	3	9	93.8	1046	1073	7.639486	
7	2	9	61.1	1175		8.550819	
8	2	9	70	1946		10.05149	
9	2	9	57.5	1338		11.06638	

## Statistics 4 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	15	56.5	1623		0.558121	1
1	3	15	70.6	1467	1151	1.21059	
2	1	15	74.5			1.794043	
3	2	15	53.1	1225		2.879428	
4	1	15	82.3			4.046797	
5	2	15	69.7	1861		4.91575	
6	2	15	68.4	1471		5.961388	
7	3	15	76.6	1606	1298	6.199999	
8	2	15	54.5	1041		7.514904	
9	2	15	73.5	1618		7.939122	
10	1	15	95.8			9.157899	
11	1	15	72.5			9.947927	
12	1	15	54.4			10.75448	
13	1	15	53.8			11.98433	

## Statistics 5 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	17	68.2	1394	1449	0.506201	1
1	3	17	61.1	1912	1466	1.097551	
2	3	17	59.5	1768	1514	1.720993	
3	3	17	83.2	1478	1819	2.533243	
4	2	17	55.7	1107		3.676648	
5	1	17	88.2			4.219539	
6	2	17	87.8	1206		5.142268	
7	2	17	79	1261		5.756506	
8	3	17	56.7	1900	1022	7.046413	
9	2	17	94.9	1339		7.760463	
10	1	17	67.1			8.237684	
11	1	17	72.3			8.961427	
12	3	17	74.8	1950	1614	10.06612	
13	3	17	59	1145	1683	10.64105	
14	1	17	56.4			11.8896	

## Statistics 6 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	66.1	1964		0.762468	1
1	3	7	89.6	1189	1440	1.964515	
2	3	7	91.5	1305	1682	2.487855	
3	2	7	90.1	1367		3.366158	
4	2	7	62.4	1667		4.001721	
5	2	7	96.8	1886		5.478773	
6	3	7	60.3	1740	1914	6.952374	
7	2	7	67.3	1541		7.28213	
8	1	7	64.8			8.884538	
9	2	7	54.9	1321		9.118782	
10	1	7	88.4			10.79673	
11	3	7	95.1	1438	1756	11.14414	

Statistics 7 (ChirpCenter Frequency: 5322.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	20	50.7	1938		0.311697	1
1	2	20	80.2	1949		2.035876	
2	2	20	77.6	1372		2.55903	
3	3	20	93.5	1649	1216	3.961659	
4	3	20	99	1073	1467	4.706339	
5	3	20	53.8	1008	1270	5.944873	
6	1	20	99.6			7.186711	
7	1	20	62.8			7.884272	
8	1	20	51.3			9.691848	
9	2	20	73.1	1644		9.928786	
10	3	20	77.1	1637	1748	11.7342	

Statistics 8 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	17	78.7	1140	1265	0.491328	1
1	1	17	71.7			1.132067	
2	3	17	84.2	1584	1667	1.778865	
3	3	17	67.1	1084	1150	2.125151	
4	3	17	63.3	1228	1949	3.001111	
5	3	17	52.4	1653	1258	3.887952	
6	2	17	87.5	1392		4.564401	
7	2	17	75.4	1457		5.373731	
8	2	17	63.6	1551		5.878878	
9	2	17	63.5	1476		6.91241	
10	1	17	98.3			7.73768	
11	2	17	76.3	1927		8.182643	
12	2	17	51.3	1389		8.733866	
13	2	17	76.9	1319		9.750395	
14	1	17	60.6			10.19122	
15	3	17	87.3	1239	1314	11.15682	
16	2	17	88.3	1536		11.3999	

Statistics 9 (ChirpCenter Frequency: 5322.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	20	80.2	1382		0.016435	1
1	1	20	77.2			0.732541	
2	3	20	96.5	1111	1334	1.890331	
3	2	20	91.2	1725		2.397501	
4	2	20	75.6	1585		3.196498	
5	2	20	97.3	1143		3.490105	
6	1	20	76.1			4.514894	
7	2	20	83	1245		5.019978	
8	1	20	79			5.874574	
9	1	20	51			6.66106	
10	3	20	63.6	1528	1408	7.057615	
11	1	20	83.5			7.41587	
12	1	20	71			8.446926	
13	2	20	93.6	1468		9.269356	
14	2	20	57.3	1585		9.531712	
15	2	20	66.4	1681		10.01456	
16	3	20	84.5	1625	1937	10.90288	
17	3	20	76.3	1527	1551	11.49126	

Statistics 10 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	17	50.4	1338		0.310305	1
1	1	17	75.3			1.557577	
2	3	17	50.4	1760	1843	3.589157	
3	3	17	50.7	1331	1967	3.804102	
4	2	17	76.4	1327		4.825543	
5	2	17	76.7	1321		6.142083	
6	1	17	53.7			7.85116	
7	2	17	98.5	1165		8.834979	
8	2	17	53.4	1044		10.66204	
9	3	17	60.5	1055	1388	11.38511	

## Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (MHz)
1	5320	9	1	333	1	5457.0, 5392.0, 5277.0, 5561.0, 5290.0, 5435.0, 5286.0, 5263.0, 5354.0, 5391.0, 5624.0, 5253.0, 5273.0, 5601.0, 5319.0, 5555.0, 5332.0, 5685.0, 5336.0, 5394.0, 5309.0, 5468.0, 5649.0, 5646.0, 5266.0, 5589.0, 5640.0, 5462.0, 5441.0, 5386.0, 5270.0, 5549.0, 5687.0, 5340.0, 5666.0, 5701.0, 5635.0, 5490.0, 5406.0, 5694.0, 5513.0, 5351.0, 5533.0, 5484.0, 5379.0, 5419.0, 5525.0, 5641.0, 5445.0, 5304.0, 5540.0, 5310.0, 5531.0, 5451.0, 5422.0, 5506.0, 5491.0, 5251.0, 5631.0, 5653.0, 5699.0, 5356.0, 5373.0, 5586.0, 5313.0, 5411.0, 5711.0, 5686.0, 5678.0, 5471.0, 5359.0, 5440.0, 5327.0, 5523.0, 5271.0, 5633.0, 5538.0, 5626.0, 5599.0, 5529.0, 5404.0, 5574.0, 5298.0, 5456.0, 5338.0, 5539.0, 5622.0, 5295.0, 5287.0, 5619.0, 5514.0, 5378.0, 5458.0, 5256.0, 5637.0, 5603.0, 5650.0, 5715.0, 5596.0, 5547.0
2	5320	9	1	333	1	5365.0, 5500.0, 5613.0, 5676.0, 5718.0, 5723.0, 5677.0, 5667.0, 5442.0, 5584.0, 5485.0, 5463.0, 5436.0, 5369.0, 5378.0, 5362.0, 5682.0, 5577.0, 5695.0, 5379.0, 5380.0, 5627.0, 5710.0, 5341.0, 5575.0, 5305.0, 5686.0, 5322.0, 5315.0, 5573.0, 5261.0, 5272.0, 5373.0, 5409.0, 5371.0, 5359.0, 5498.0, 5559.0, 5701.0, 5358.0, 5488.0, 5281.0, 5606.0, 5535.0, 5614.0, 5372.0, 5687.0, 5406.0, 5376.0, 5551.0, 5555.0, 5585.0, 5534.0, 5604.0, 5552.0, 5719.0, 5290.0, 5515.0, 5524.0, 5282.0, 5688.0, 5664.0, 5416.0, 5396.0, 5694.0, 5516.0, 5422.0, 5252.0, 5616.0, 5569.0, 5484.0, 5495.0, 5439.0, 5255.0, 5673.0, 5294.0, 5370.0, 5568.0, 5481.0, 5526.0, 5529.0, 5366.0, 5538.0, 5420.0, 5262.0, 5640.0, 5311.0, 5298.0, 5497.0, 5440.0, 5704.0, 5581.0, 5574.0, 5600.0, 5507.0, 5523.0, 5260.0, 5389.0, 5512.0, 5672.0
3	5320	9	1	333	0	5289.0, 5398.0, 5550.0, 5390.0, 5681.0, 5321.0, 5338.0, 5530.0, 5361.0, 5460.0, 5285.0, 5512.0, 5625.0, 5277.0, 5329.0, 5264.0,

						5703.0, 5337.0, 5695.0, 5466.0, 5343.0, 5365.0, 5354.0, 5344.0, 5688.0, 5522.0, 5608.0, 5418.0, 5642.0, 5283.0, 5553.0, 5274.0, 5552.0, 5574.0, 5679.0, 5415.0, 5376.0, 5527.0, 5511.0, 5276.0, 5569.0, 5491.0, 5529.0, 5701.0, 5445.0, 5389.0, 5291.0, 5510.0, 5315.0, 5330.0, 5478.0, 5671.0, 5685.0, 5660.0, 5720.0, 5259.0, 5251.0, 5590.0, 5422.0, 5374.0, 5355.0, 5709.0, 5381.0, 5397.0, 5269.0, 5348.0, 5322.0, 5308.0, 5610.0, 5594.0, 5505.0, 5261.0, 5518.0, 5362.0, 5619.0, 5442.0, 5659.0, 5691.0, 5706.0, 5667.0, 5690.0, 5435.0, 5423.0, 5702.0, 5450.0, 5319.0, 5272.0, 5332.0, 5672.0, 5718.0, 5643.0, 5626.0, 5648.0, 5395.0, 5721.0, 5275.0, 5417.0, 5568.0, 5407.0, 5409.0
4	5320	9	1	333	1	5565.0, 5429.0, 5444.0, 5285.0, 5643.0, 5546.0, 5408.0, 5582.0, 5499.0, 5419.0, 5718.0, 5270.0, 5366.0, 5627.0, 5297.0, 5708.0, 5315.0, 5394.0, 5603.0, 5543.0, 5264.0, 5319.0, 5674.0, 5286.0, 5413.0, 5701.0, 5518.0, 5425.0, 5471.0, 5382.0, 5495.0, 5501.0, 5383.0, 5386.0, 5694.0, 5589.0, 5575.0, 5415.0, 5691.0, 5281.0, 5673.0, 5287.0, 5430.0, 5704.0, 5265.0, 5556.0, 5651.0, 5568.0, 5291.0, 5448.0, 5322.0, 5527.0, 5477.0, 5615.0, 5482.0, 5375.0, 5539.0, 5329.0, 5432.0, 5610.0, 5516.0, 5274.0, 5442.0, 5371.0, 5252.0, 5702.0, 5690.0, 5431.0, 5579.0, 5600.0, 5637.0, 5489.0, 5515.0, 5492.0, 5387.0, 5647.0, 5591.0, 5438.0, 5370.0, 5309.0, 5545.0, 5406.0, 5711.0, 5293.0, 5255.0, 5445.0, 5511.0, 5456.0, 5488.0, 5357.0, 5388.0, 5373.0, 5504.0, 5686.0, 5535.0, 5581.0, 5310.0, 5611.0, 5671.0, 5502.0
5	5320	9	1	333	1	5623.0, 5426.0, 5596.0, 5356.0, 5723.0, 5402.0, 5589.0, 5361.0, 5516.0, 5591.0, 5360.0, 5411.0, 5679.0, 5322.0, 5463.0, 5409.0, 5285.0, 5475.0, 5681.0, 5540.0, 5438.0, 5629.0, 5651.0, 5494.0, 5385.0, 5381.0, 5432.0, 5611.0, 5319.0, 5655.0, 5459.0, 5397.0, 5482.0, 5518.0, 5565.0, 5267.0, 5566.0, 5529.0, 5410.0, 5617.0, 5467.0, 5320.0, 5564.0, 5605.0, 5603.0, 5283.0, 5424.0, 5532.0, 5306.0, 5641.0, 5316.0, 5344.0,

						5507.0, 5466.0, 5691.0, 5585.0, 5487.0, 5579.0, 5321.0, 5472.0, 5541.0, 5281.0, 5578.0, 5717.0, 5343.0, 5682.0, 5428.0, 5389.0, 5513.0, 5454.0, 5434.0, 5694.0, 5481.0, 5552.0, 5512.0, 5721.0, 5586.0, 5408.0, 5263.0, 5587.0, 5476.0, 5362.0, 5688.0, 5630.0, 5430.0, 5289.0, 5563.0, 5435.0, 5593.0, 5324.0, 5376.0, 5313.0, 5645.0, 5713.0, 5551.0, 5447.0, 5339.0, 5699.0, 5335.0, 5298.0
6	5320	9	1	333	1	5690.0, 5566.0, 5643.0, 5322.0, 5673.0, 5272.0, 5613.0, 5477.0, 5508.0, 5300.0, 5495.0, 5356.0, 5570.0, 5344.0, 5446.0, 5634.0, 5431.0, 5543.0, 5600.0, 5314.0, 5688.0, 5581.0, 5386.0, 5458.0, 5708.0, 5692.0, 5668.0, 5659.0, 5654.0, 5677.0, 5426.0, 5497.0, 5488.0, 5375.0, 5510.0, 5707.0, 5379.0, 5372.0, 5489.0, 5715.0, 5664.0, 5716.0, 5720.0, 5503.0, 5582.0, 5486.0, 5573.0, 5545.0, 5355.0, 5454.0, 5670.0, 5618.0, 5293.0, 5641.0, 5466.0, 5457.0, 5418.0, 5398.0, 5681.0, 5535.0, 5282.0, 5318.0, 5391.0, 5358.0, 5430.0, 5283.0, 5638.0, 5433.0, 5428.0, 5387.0, 5649.0, 5277.0, 5271.0, 5441.0, 5505.0, 5346.0, 5700.0, 5586.0, 5461.0, 5320.0, 5711.0, 5380.0, 5611.0, 5587.0, 5498.0, 5288.0, 5289.0, 5422.0, 5367.0, 5267.0, 5329.0, 5427.0, 5539.0, 5444.0, 5585.0, 5567.0, 5714.0, 5499.0, 5462.0, 5373.0
7	5320	9	1	333	1	5541.0, 5704.0, 5389.0, 5381.0, 5586.0, 5281.0, 5589.0, 5689.0, 5686.0, 5345.0, 5606.0, 5664.0, 5302.0, 5649.0, 5334.0, 5313.0, 5420.0, 5338.0, 5608.0, 5609.0, 5326.0, 5298.0, 5346.0, 5351.0, 5592.0, 5588.0, 5332.0, 5506.0, 5602.0, 5705.0, 5479.0, 5369.0, 5537.0, 5413.0, 5263.0, 5308.0, 5530.0, 5527.0, 5418.0, 5582.0, 5510.0, 5428.0, 5315.0, 5410.0, 5655.0, 5675.0, 5499.0, 5422.0, 5699.0, 5408.0, 5390.0, 5632.0, 5692.0, 5698.0, 5407.0, 5676.0, 5723.0, 5687.0, 5317.0, 5388.0, 5393.0, 5266.0, 5450.0, 5717.0, 5691.0, 5648.0, 5477.0, 5521.0, 5596.0, 5509.0, 5625.0, 5377.0, 5483.0, 5695.0, 5474.0, 5628.0, 5543.0, 5522.0, 5372.0, 5539.0, 5700.0, 5260.0, 5561.0, 5663.0, 5631.0, 5437.0, 5504.0, 5617.0,

						5312.0, 5591.0, 5434.0, 5574.0, 5677.0, 5644.0, 5352.0, 5432.0, 5442.0, 5267.0, 5533.0, 5525.0
8	5320	9	1	333	1	5651.0, 5558.0, 5431.0, 5441.0, 5409.0, 5626.0, 5275.0, 5716.0, 5346.0, 5627.0, 5496.0, 5656.0, 5425.0, 5419.0, 5517.0, 5295.0, 5313.0, 5710.0, 5654.0, 5458.0, 5410.0, 5442.0, 5628.0, 5605.0, 5469.0, 5457.0, 5675.0, 5671.0, 5286.0, 5305.0, 5498.0, 5494.0, 5309.0, 5518.0, 5276.0, 5704.0, 5306.0, 5459.0, 5617.0, 5259.0, 5320.0, 5447.0, 5546.0, 5394.0, 5297.0, 5590.0, 5318.0, 5477.0, 5683.0, 5526.0, 5576.0, 5389.0, 5340.0, 5438.0, 5356.0, 5330.0, 5483.0, 5499.0, 5258.0, 5684.0, 5527.0, 5653.0, 5451.0, 5489.0, 5666.0, 5523.0, 5544.0, 5255.0, 5519.0, 5360.0, 5618.0, 5532.0, 5569.0, 5412.0, 5365.0, 5533.0, 5491.0, 5720.0, 5345.0, 5359.0, 5701.0, 5700.0, 5635.0, 5538.0, 5583.0, 5525.0, 5658.0, 5386.0, 5281.0, 5694.0, 5500.0, 5390.0, 5548.0, 5388.0, 5632.0, 5251.0, 5403.0, 5284.0, 5417.0, 5486.0
9	5320	9	1	333	1	5296.0, 5603.0, 5326.0, 5350.0, 5468.0, 5481.0, 5280.0, 5592.0, 5622.0, 5574.0, 5333.0, 5664.0, 5272.0, 5277.0, 5518.0, 5719.0, 5529.0, 5511.0, 5308.0, 5573.0, 5577.0, 5702.0, 5661.0, 5276.0, 5291.0, 5663.0, 5407.0, 5630.0, 5305.0, 5354.0, 5303.0, 5377.0, 5365.0, 5347.0, 5694.0, 5556.0, 5686.0, 5640.0, 5539.0, 5581.0, 5430.0, 5598.0, 5452.0, 5713.0, 5340.0, 5342.0, 5304.0, 5375.0, 5414.0, 5632.0, 5536.0, 5281.0, 5336.0, 5520.0, 5397.0, 5579.0, 5543.0, 5542.0, 5261.0, 5572.0, 5306.0, 5429.0, 5259.0, 5253.0, 5317.0, 5266.0, 5562.0, 5448.0, 5415.0, 5470.0, 5477.0, 5420.0, 5287.0, 5372.0, 5453.0, 5552.0, 5367.0, 5636.0, 5545.0, 5250.0, 5526.0, 5489.0, 5566.0, 5421.0, 5648.0, 5535.0, 5338.0, 5707.0, 5601.0, 5298.0, 5647.0, 5456.0, 5466.0, 5578.0, 5492.0, 5335.0, 5462.0, 5348.0, 5474.0, 5398.0
10	5320	9	1	333	1	5514.0, 5677.0, 5628.0, 5302.0, 5629.0, 5277.0, 5481.0, 5691.0, 5648.0, 5253.0, 5566.0, 5473.0, 5538.0, 5306.0, 5681.0, 5341.0, 5565.0, 5255.0, 5586.0, 5686.0, 5309.0, 5424.0, 5672.0, 5349.0,



						5273.0, 5423.0, 5361.0, 5506.0, 5570.0, 5417.0, 5555.0, 5658.0, 5667.0, 5593.0, 5414.0, 5641.0, 5592.0, 5548.0, 5638.0, 5342.0, 5320.0, 5452.0, 5637.0, 5474.0, 5626.0, 5576.0, 5614.0, 5692.0, 5621.0, 5382.0, 5412.0, 5587.0, 5499.0, 5359.0, 5269.0, 5418.0, 5700.0, 5606.0, 5482.0, 5498.0, 5444.0, 5497.0, 5528.0, 5317.0, 5504.0, 5315.0, 5355.0, 5256.0, 5330.0, 5544.0, 5554.0, 5661.0, 5665.0, 5304.0, 5634.0, 5313.0, 5284.0, 5671.0, 5530.0, 5690.0, 5573.0, 5630.0, 5477.0, 5685.0, 5515.0, 5581.0, 5383.0, 5703.0, 5461.0, 5299.0, 5402.0, 5415.0, 5389.0, 5533.0, 5610.0, 5714.0, 5582.0, 5680.0, 5289.0, 5556.0
11	5320	9	1	333	1	5274.0, 5308.0, 5533.0, 5468.0, 5549.0, 5425.0, 5290.0, 5387.0, 5711.0, 5282.0, 5265.0, 5447.0, 5568.0, 5617.0, 5532.0, 5481.0, 5478.0, 5591.0, 5398.0, 5567.0, 5442.0, 5438.0, 5530.0, 5721.0, 5525.0, 5501.0, 5293.0, 5578.0, 5546.0, 5570.0, 5713.0, 5428.0, 5524.0, 5547.0, 5714.0, 5373.0, 5566.0, 5509.0, 5345.0, 5431.0, 5493.0, 5588.0, 5385.0, 5275.0, 5586.0, 5439.0, 5430.0, 5574.0, 5436.0, 5693.0, 5289.0, 5640.0, 5499.0, 5615.0, 5671.0, 5572.0, 5612.0, 5459.0, 5408.0, 5273.0, 5475.0, 5576.0, 5344.0, 5432.0, 5279.0, 5342.0, 5675.0, 5278.0, 5251.0, 5672.0, 5264.0, 5357.0, 5528.0, 5426.0, 5317.0, 5490.0, 5407.0, 5451.0, 5668.0, 5587.0, 5500.0, 5457.0, 5418.0, 5383.0, 5336.0, 5303.0, 5302.0, 5660.0, 5443.0, 5456.0, 5460.0, 5496.0, 5717.0, 5698.0, 5374.0, 5322.0, 5492.0, 5553.0, 5664.0, 5583.0
12	5320	9	1	333	1	5673.0, 5672.0, 5435.0, 5450.0, 5366.0, 5519.0, 5594.0, 5576.0, 5560.0, 5600.0, 5289.0, 5382.0, 5455.0, 5417.0, 5456.0, 5276.0, 5349.0, 5598.0, 5641.0, 5580.0, 5359.0, 5296.0, 5282.0, 5546.0, 5344.0, 5463.0, 5291.0, 5331.0, 5460.0, 5613.0, 5568.0, 5632.0, 5609.0, 5693.0, 5294.0, 5713.0, 5553.0, 5488.0, 5526.0, 5458.0, 5446.0, 5593.0, 5431.0, 5661.0, 5314.0, 5562.0, 5385.0, 5705.0, 5414.0, 5500.0, 5706.0, 5544.0, 5491.0, 5704.0, 5271.0, 5615.0, 5315.0, 5388.0, 5708.0, 5535.0,

						5630.0, 5377.0, 5335.0, 5267.0, 5612.0, 5467.0, 5439.0, 5457.0, 5421.0, 5510.0, 5434.0, 5389.0, 5701.0, 5326.0, 5587.0, 5362.0, 5675.0, 5586.0, 5547.0, 5579.0, 5638.0, 5723.0, 5558.0, 5529.0, 5410.0, 5676.0, 5508.0, 5643.0, 5481.0, 5327.0, 5655.0, 5678.0, 5520.0, 5273.0, 5722.0, 5321.0, 5614.0, 5304.0, 5256.0, 5689.0
13	5320	9	1	333	1	5639.0, 5302.0, 5458.0, 5300.0, 5544.0, 5364.0, 5318.0, 5653.0, 5283.0, 5275.0, 5497.0, 5671.0, 5470.0, 5715.0, 5469.0, 5516.0, 5444.0, 5477.0, 5662.0, 5635.0, 5493.0, 5443.0, 5689.0, 5456.0, 5401.0, 5290.0, 5278.0, 5485.0, 5400.0, 5467.0, 5539.0, 5616.0, 5529.0, 5486.0, 5325.0, 5661.0, 5388.0, 5421.0, 5266.0, 5253.0, 5620.0, 5684.0, 5433.0, 5700.0, 5605.0, 5590.0, 5459.0, 5558.0, 5442.0, 5614.0, 5527.0, 5546.0, 5524.0, 5418.0, 5263.0, 5370.0, 5320.0, 5648.0, 5588.0, 5584.0, 5282.0, 5261.0, 5568.0, 5317.0, 5591.0, 5391.0, 5707.0, 5642.0, 5301.0, 5313.0, 5586.0, 5273.0, 5359.0, 5492.0, 5280.0, 5713.0, 5331.0, 5480.0, 5250.0, 5259.0, 5446.0, 5315.0, 5540.0, 5416.0, 5686.0, 5634.0, 5654.0, 5641.0, 5585.0, 5505.0, 5484.0, 5353.0, 5425.0, 5488.0, 5608.0, 5296.0, 5617.0, 5694.0, 5452.0, 5543.0
14	5320	9	1	333	1	5263.0, 5454.0, 5416.0, 5640.0, 5317.0, 5603.0, 5665.0, 5339.0, 5625.0, 5708.0, 5357.0, 5424.0, 5650.0, 5381.0, 5253.0, 5289.0, 5293.0, 5362.0, 5604.0, 5290.0, 5685.0, 5567.0, 5622.0, 5704.0, 5368.0, 5699.0, 5392.0, 5285.0, 5391.0, 5423.0, 5459.0, 5328.0, 5472.0, 5252.0, 5412.0, 5393.0, 5713.0, 5387.0, 5330.0, 5632.0, 5515.0, 5261.0, 5643.0, 5406.0, 5360.0, 5590.0, 5388.0, 5273.0, 5311.0, 5598.0, 5669.0, 5496.0, 5618.0, 5376.0, 5256.0, 5602.0, 5674.0, 5582.0, 5414.0, 5610.0, 5348.0, 5691.0, 5476.0, 5503.0, 5587.0, 5281.0, 5346.0, 5518.0, 5498.0, 5521.0, 5651.0, 5284.0, 5646.0, 5532.0, 5310.0, 5624.0, 5399.0, 5277.0, 5656.0, 5700.0, 5280.0, 5551.0, 5514.0, 5415.0, 5501.0, 5307.0, 5361.0, 5679.0, 5442.0, 5638.0, 5511.0, 5447.0, 5613.0, 5589.0, 5680.0, 5595.0,

						5260.0, 5524.0, 5291.0, 5486.0
15	5320	9	1	333	1	5265.0, 5296.0, 5298.0, 5433.0, 5507.0, 5560.0, 5292.0, 5624.0, 5405.0, 5302.0, 5288.0, 5327.0, 5596.0, 5573.0, 5556.0, 5714.0, 5426.0, 5546.0, 5528.0, 5330.0, 5691.0, 5675.0, 5424.0, 5408.0, 5413.0, 5520.0, 5608.0, 5615.0, 5565.0, 5600.0, 5450.0, 5355.0, 5599.0, 5282.0, 5634.0, 5559.0, 5475.0, 5609.0, 5713.0, 5283.0, 5270.0, 5685.0, 5279.0, 5623.0, 5374.0, 5532.0, 5331.0, 5542.0, 5584.0, 5264.0, 5431.0, 5554.0, 5267.0, 5478.0, 5706.0, 5487.0, 5376.0, 5361.0, 5310.0, 5489.0, 5696.0, 5660.0, 5271.0, 5704.0, 5612.0, 5366.0, 5380.0, 5639.0, 5354.0, 5680.0, 5607.0, 5534.0, 5673.0, 5300.0, 5485.0, 5349.0, 5676.0, 5716.0, 5403.0, 5309.0, 5269.0, 5460.0, 5333.0, 5590.0, 5656.0, 5717.0, 5398.0, 5649.0, 5378.0, 5512.0, 5641.0, 5494.0, 5385.0, 5382.0, 5664.0, 5375.0, 5484.0, 5591.0, 5715.0, 5611.0
16	5320	9	1	333	1	5652.0, 5537.0, 5417.0, 5357.0, 5438.0, 5360.0, 5516.0, 5400.0, 5483.0, 5468.0, 5620.0, 5342.0, 5691.0, 5600.0, 5597.0, 5471.0, 5706.0, 5659.0, 5565.0, 5647.0, 5490.0, 5332.0, 5617.0, 5491.0, 5630.0, 5592.0, 5391.0, 5447.0, 5654.0, 5646.0, 5681.0, 5370.0, 5551.0, 5497.0, 5303.0, 5555.0, 5593.0, 5401.0, 5304.0, 5414.0, 5531.0, 5336.0, 5325.0, 5707.0, 5399.0, 5298.0, 5425.0, 5315.0, 5625.0, 5661.0, 5375.0, 5281.0, 5337.0, 5623.0, 5327.0, 5464.0, 5418.0, 5578.0, 5677.0, 5318.0, 5702.0, 5328.0, 5265.0, 5446.0, 5295.0, 5499.0, 5714.0, 5612.0, 5388.0, 5300.0, 5538.0, 5689.0, 5406.0, 5317.0, 5385.0, 5562.0, 5604.0, 5475.0, 5712.0, 5379.0, 5607.0, 5297.0, 5567.0, 5582.0, 5352.0, 5616.0, 5554.0, 5482.0, 5324.0, 5609.0, 5503.0, 5474.0, 5374.0, 5405.0, 5488.0, 5365.0, 5279.0, 5533.0, 5713.0, 5542.0
17	5320	9	1	333	1	5365.0, 5311.0, 5585.0, 5706.0, 5312.0, 5401.0, 5326.0, 5702.0, 5522.0, 5553.0, 5686.0, 5416.0, 5707.0, 5357.0, 5427.0, 5492.0, 5718.0, 5564.0, 5370.0, 5471.0, 5333.0, 5598.0, 5410.0, 5299.0, 5531.0, 5547.0, 5693.0, 5600.0, 5632.0, 5385.0, 5409.0, 5340.0,

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18	5320	9	1	333	1	5650.0, 5707.0, 5302.0, 5531.0, 5252.0, 5521.0, 5662.0, 5333.0, 5596.0, 5353.0, 5307.0, 5265.0, 5524.0, 5578.0, 5446.0, 5487.0, 5641.0, 5536.0, 5369.0, 5540.0, 5602.0, 5270.0, 5649.0, 5507.0, 5512.0, 5256.0, 5285.0, 5284.0, 5329.0, 5357.0, 5659.0, 5513.0, 5465.0, 5574.0, 5435.0, 5449.0, 5430.0, 5413.0, 5613.0, 5561.0, 5312.0, 5428.0, 5266.0, 5484.0, 5587.0, 5416.0, 5344.0, 5595.0, 5297.0, 5321.0, 5402.0, 5511.0, 5401.0, 5355.0, 5573.0, 5345.0, 5696.0, 5647.0, 5373.0, 5459.0, 5642.0, 5639.0, 5385.0, 5691.0, 5387.0, 5500.0, 5441.0, 5581.0, 5607.0, 5377.0, 5660.0, 5651.0, 5557.0, 5309.0, 5550.0, 5590.0, 5625.0, 5464.0, 5490.0, 5577.0, 5653.0, 5565.0, 5523.0, 5362.0, 5315.0, 5486.0, 5718.0, 5634.0, 5689.0, 5551.0, 5325.0, 5418.0, 5576.0, 5478.0, 5330.0, 5699.0, 5549.0, 5296.0, 5351.0, 5251.0
19	5320	9	1	333	1	5301.0, 5416.0, 5511.0, 5429.0, 5516.0, 5520.0, 5472.0, 5281.0, 5380.0, 5491.0, 5348.0, 5376.0, 5337.0, 5650.0, 5449.0, 5279.0, 5392.0, 5291.0, 5675.0, 5270.0, 5473.0, 5703.0, 5265.0, 5541.0, 5495.0, 5715.0, 5521.0, 5431.0, 5324.0, 5572.0, 5280.0, 5272.0, 5263.0, 5458.0, 5412.0, 5446.0, 5560.0, 5456.0, 5442.0, 5638.0, 5644.0, 5532.0, 5713.0, 5709.0, 5694.0, 5537.0, 5586.0, 5492.0, 5310.0, 5465.0, 5471.0, 5288.0, 5636.0, 5367.0, 5425.0, 5268.0, 5563.0, 5441.0, 5336.0, 5507.0, 5699.0, 5667.0, 5607.0, 5654.0, 5402.0, 5365.0, 5496.0, 5574.0,

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20	5320	9	1	333	1	5623.0, 5424.0, 5685.0, 5443.0, 5410.0, 5537.0, 5293.0, 5269.0, 5491.0, 5628.0, 5429.0, 5677.0, 5586.0, 5478.0, 5582.0, 5626.0, 5370.0, 5305.0, 5304.0, 5484.0, 5412.0, 5505.0, 5289.0, 5473.0, 5392.0, 5554.0, 5255.0, 5496.0, 5669.0, 5349.0, 5296.0, 5648.0, 5624.0, 5528.0, 5273.0, 5276.0, 5613.0, 5256.0, 5423.0, 5343.0, 5535.0, 5258.0, 5264.0, 5671.0, 5642.0, 5301.0, 5456.0, 5380.0, 5328.0, 5498.0, 5617.0, 5378.0, 5600.0, 5579.0, 5657.0, 5622.0, 5433.0, 5507.0, 5502.0, 5499.0, 5384.0, 5667.0, 5274.0, 5427.0, 5639.0, 5580.0, 5631.0, 5261.0, 5342.0, 5332.0, 5460.0, 5608.0, 5525.0, 5436.0, 5589.0, 5552.0, 5363.0, 5503.0, 5557.0, 5692.0, 5348.0, 5544.0, 5556.0, 5294.0, 5344.0, 5435.0, 5559.0, 5283.0, 5449.0, 5481.0, 5490.0, 5526.0, 5454.0, 5651.0, 5467.0, 5319.0, 5660.0, 5347.0, 5367.0, 5523.0
21	5320	9	1	333	1	5693.0, 5256.0, 5415.0, 5471.0, 5409.0, 5569.0, 5290.0, 5437.0, 5622.0, 5371.0, 5596.0, 5339.0, 5313.0, 5688.0, 5581.0, 5586.0, 5279.0, 5615.0, 5311.0, 5382.0, 5659.0, 5377.0, 5281.0, 5599.0, 5508.0, 5303.0, 5400.0, 5645.0, 5502.0, 5326.0, 5373.0, 5431.0, 5455.0, 5704.0, 5687.0, 5592.0, 5444.0, 5660.0, 5655.0, 5682.0, 5648.0, 5576.0, 5551.0, 5544.0, 5294.0, 5521.0, 5714.0, 5510.0, 5696.0, 5543.0, 5651.0, 5397.0, 5312.0, 5609.0, 5441.0, 5298.0, 5475.0, 5420.0, 5461.0, 5328.0, 5448.0, 5295.0, 5505.0, 5447.0, 5495.0, 5260.0, 5670.0, 5262.0, 5352.0, 5282.0, 5541.0, 5414.0, 5580.0, 5327.0, 5626.0, 5265.0, 5252.0, 5623.0, 5435.0, 5546.0, 5553.0, 5680.0, 5523.0, 5358.0, 5429.0, 5468.0, 5490.0, 5677.0, 5470.0, 5288.0, 5346.0, 5577.0, 5519.0, 5630.0, 5535.0, 5297.0, 5563.0, 5398.0, 5308.0, 5631.0
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