FCC PART 15.407

RSS-247, ISSUE 2, FEBRUARY 2017

DYNAMIC FREQUENCY SELECTION

TEST REPORT

For

Huawei Technologies Co., Ltd

Administration Building,Headquarters of Huawei Technologies Co.,Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Test Model: eA280-135
FCC ID: QISEA280-135
IC: 6369A-EA280135

Report Type:	**Product Name:**
Original Report	LTE CPE

Test Engineer:	Edison Hu
Report Number:	RDG161201012-00
Report Date:	2017-06-02
Reviewed By:	Oscar Ye Engineer
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road,Kunshan, Jiangsu province,China Tel: +86-0512-86175000 Fax: +86-0512-88934268 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ***Huawei Technologies Co., Ltd***'s product, model number: ***eA280-135 (FCC ID: QISEA280-135, IC: 6369A-EA280135)*** (*or* "EUT") in this report is a ***LTE CPE***, which was measured approximately*:* 9.5 cm (D) x 21 cm (H), rated input voltage: DC12.0V from adapter.

Switching power adapter information:
MODEL: HW-120200U6W
INPUT: 100-240V~50/60Hz, 0.8A
OUTPUT: DC12.0V 2.0A

**All measurement and test data in this report was gathered from production sample serial number: 20161201012. (Assigned by the BACL. The EUT supplied by the applicant was received on 2016-12-01).*

Objective

This report is prepared on behalf of ***Huawei Technologies Co., Ltd*** in accordance with Part 2-Subpart J, Part 15-Subparts E of the Federal Communications Commission's rules and RSS-247, ISSUE 2, February 2017.

The objective is to determine compliance with FCC Part 15, Subpart E, section 15.407 and RSS-247, ISSUE 2, February 2017 Dynamic Frequency Selection (DFS) for devices operating in the bands 5250-5350 MHz,5470-5725 MHz.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP/15C DTS/15E NII/Part 27 TNB/Part 90 TNB submissions with FCC ID: QISEA280-135.
RSS-195/ RSS-197/ RSS-199/RSS-247 DTSs/ RSS-247 LE-LAN submissions with IC: 6369A-EA280135.

Test Methodology

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Test site at Bay Area Compliance Laboratories Corp. (Kunshan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

EUT Exercise Software

The test was performed under: DOS command, which was provided by the manufacturer.

Equipment Modifications

N/A

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Dell	Laptop	E6410	/
DELL	Laptop	PP11L	QDS-BRCM1331

External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	No	Yes	10	RJ45 Port of Laptop	EUT

SUMMARY OF TEST RESULTS

The following result table represents the list of measurements required under the CFR §47 Part 15.407(h), RSS-247, ISSUE 2, February 2017 and 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

APPLICABLE STANDARDS

DFS Requirement

CFR §47 Part 15.407(h)

RSS-247, ISSUE 2, February 2017.

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
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

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

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (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 ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 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	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: 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 (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per *Burst*	Number of *Bursts*	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

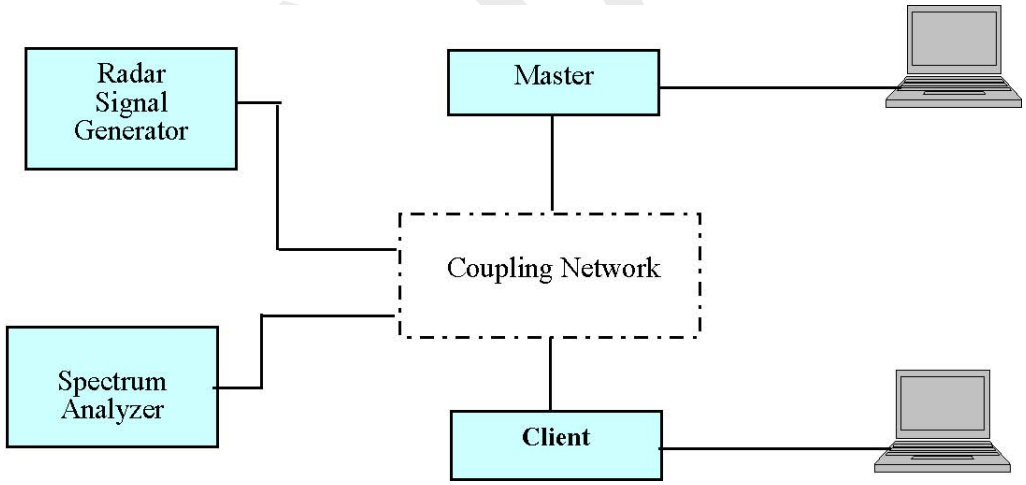
Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

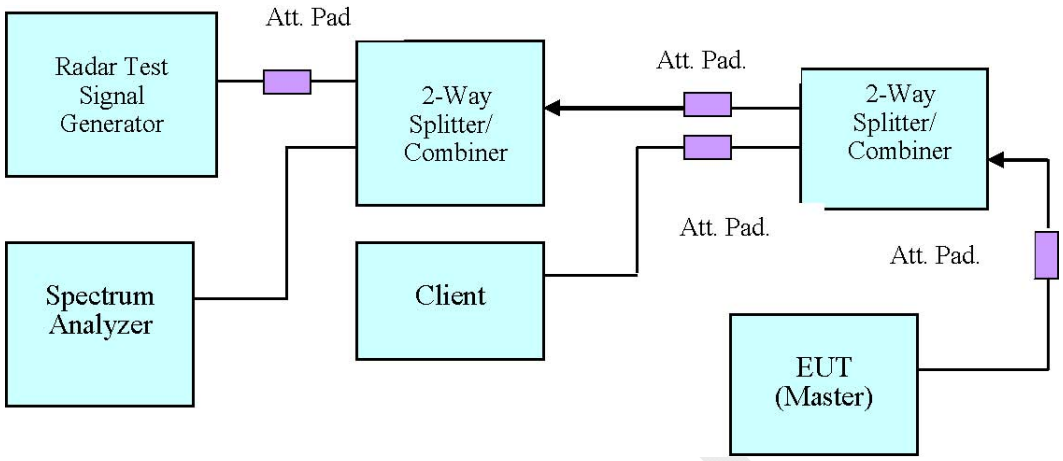
DFS Measurement System

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

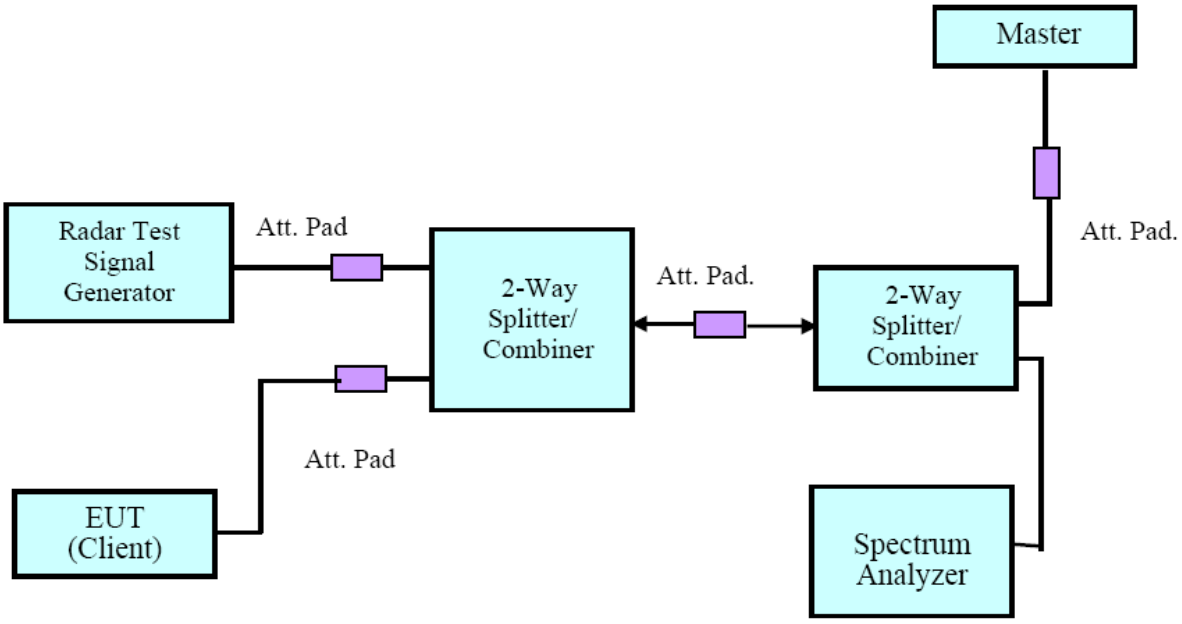
System Block Diagram



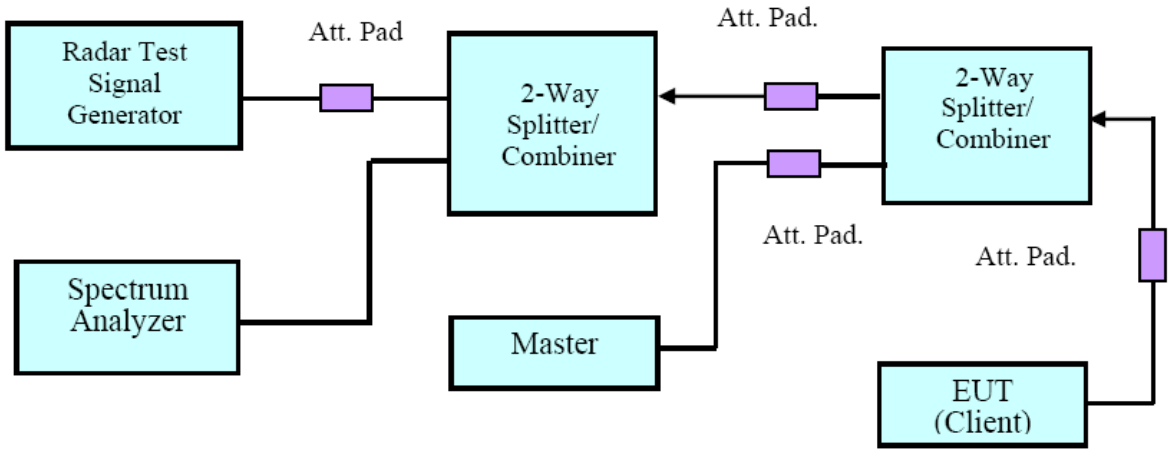
Conducted Method



Setup for Master with injection at the Master

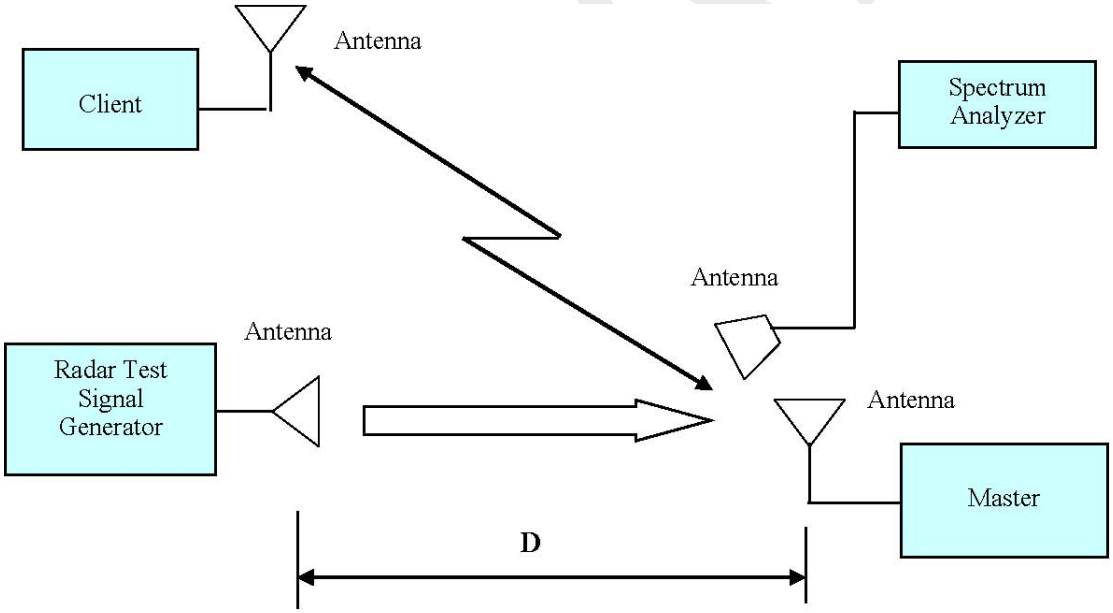


Setup for Client with injection at the Master



Setup for Client with injection at the Client

Radiated Method



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 diction and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.

TEST RESULTS

Description of EUT

The maximum conducted output power including tune up tolerance of EUT is 18dBm, antenna gain is 2dBi, the Maximum E.I.R.P= 18+2=20dBm <23 dBm, Therefore the required interference threshold level is -64 dBm, the required radiated threshold at antenna port is -62dBm.

The calibrated radiated DFS detection threshold level is set to -64 dBm is more stringent.

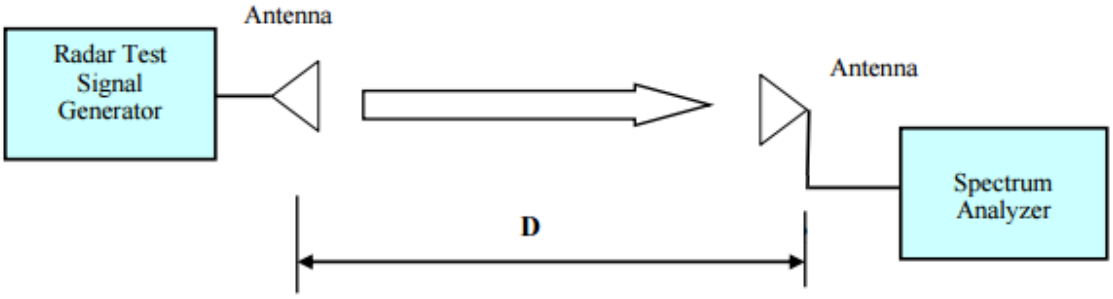
WLAN traffic is generated by streaming the video file TestFile.mpg, this file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. The file is streamed from the Access Point to the Client in full motion video mode using the media player with the V2.61 Codec package.

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
R&S	Spectrum Analyzer	E4440A	SG43360054	2016-12-08	2017-12-08
Mini-circuits	Splitter/Combiner	ZX10-2-1252+	N/A	N/A	N/A
ETS	Horn Antenna	3115	6229	2016-01-11	2019-01-10
ETS	Horn Antenna	3115	00066542	2016-01-11	2019-01-10

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

Test Environmental Conditions

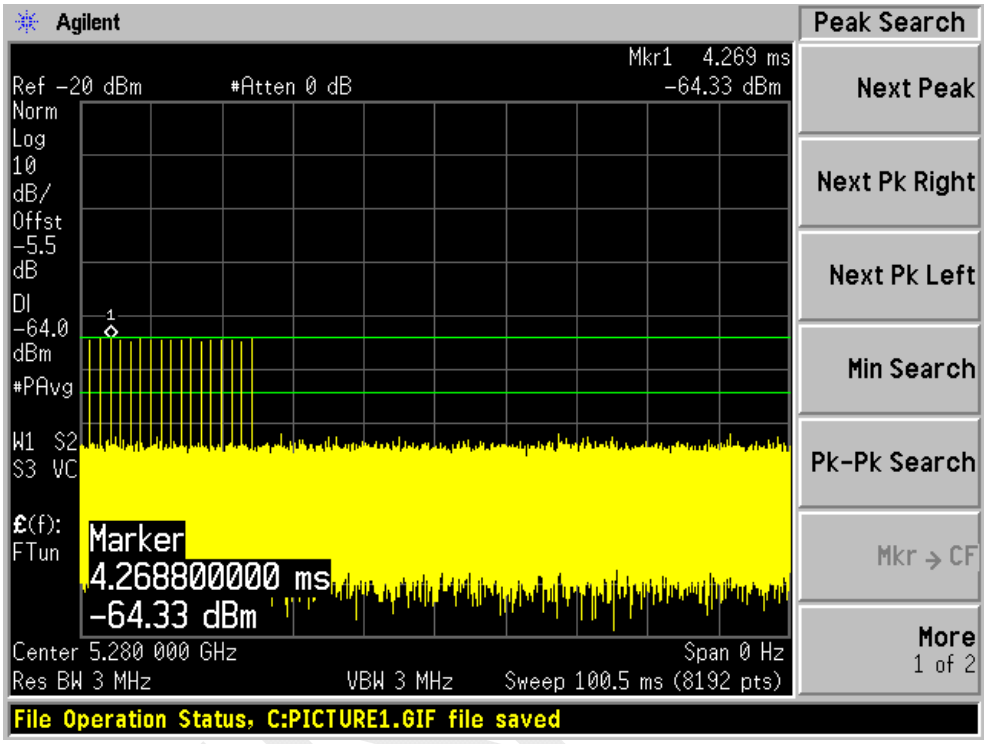
Temperature:	26.5 °C
Relative Humidity:	39 %
ATM Pressure:	101.2 kPa

The testing was performed by Edison Hu on 2017-05-09

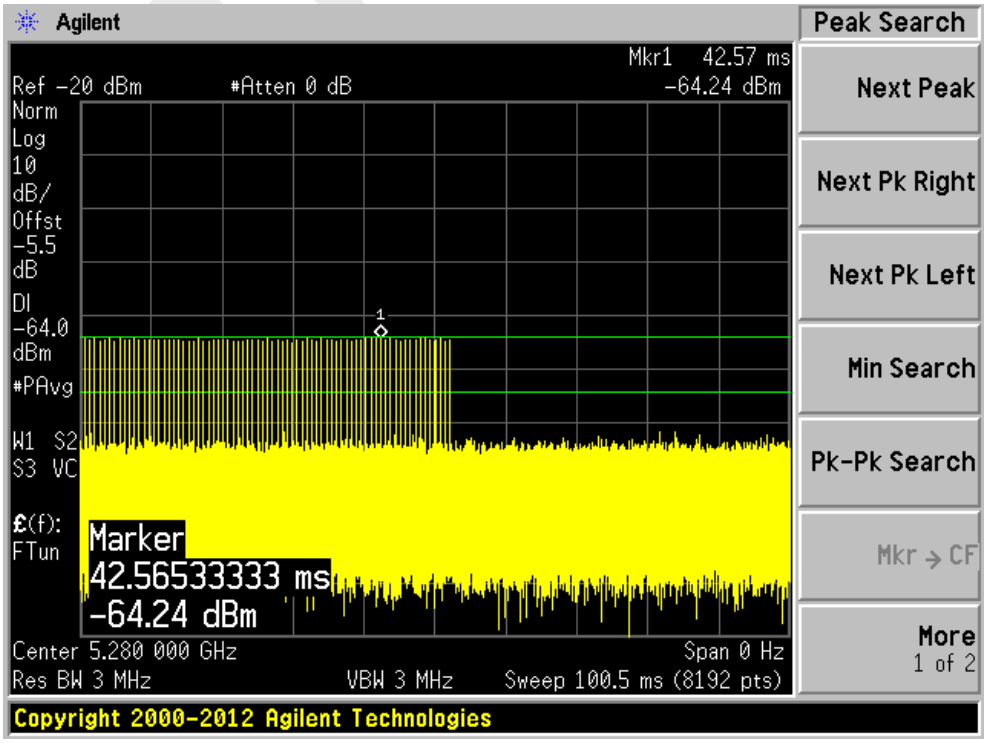
Plots of Radar Waveforms

5280 MHz:

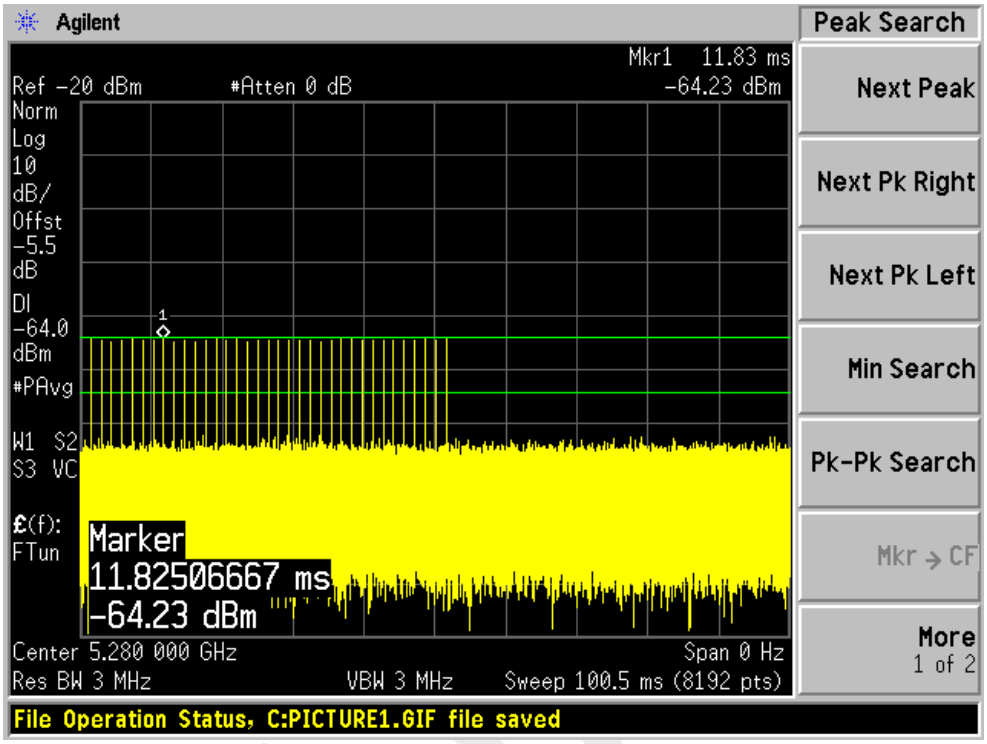
Radar Type 0



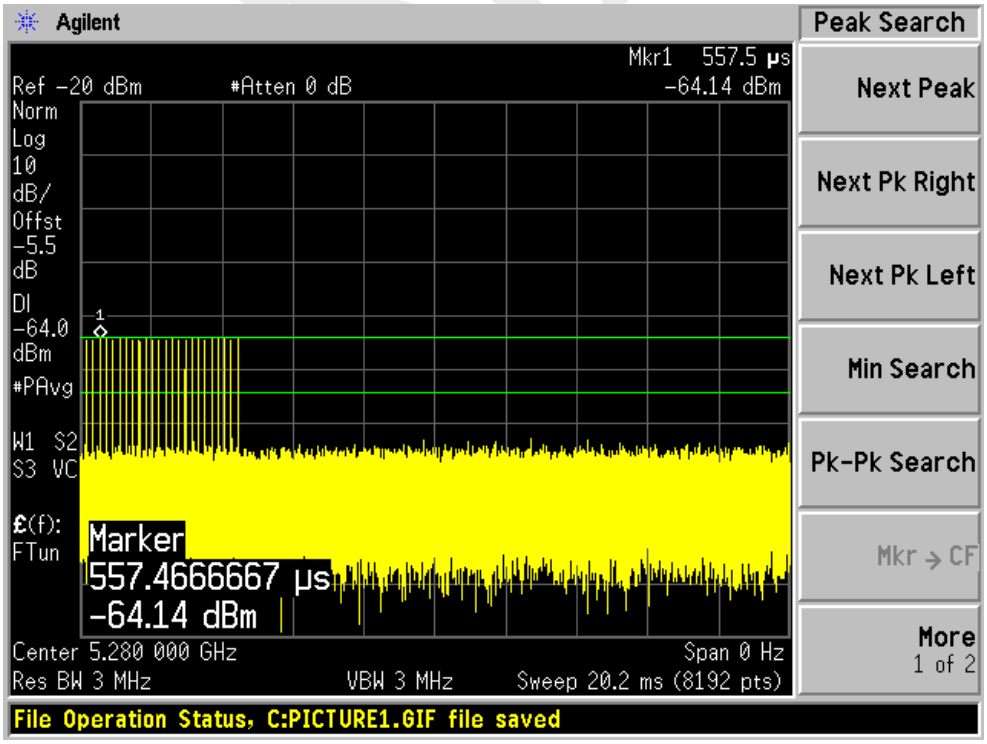
Radar Type 1A



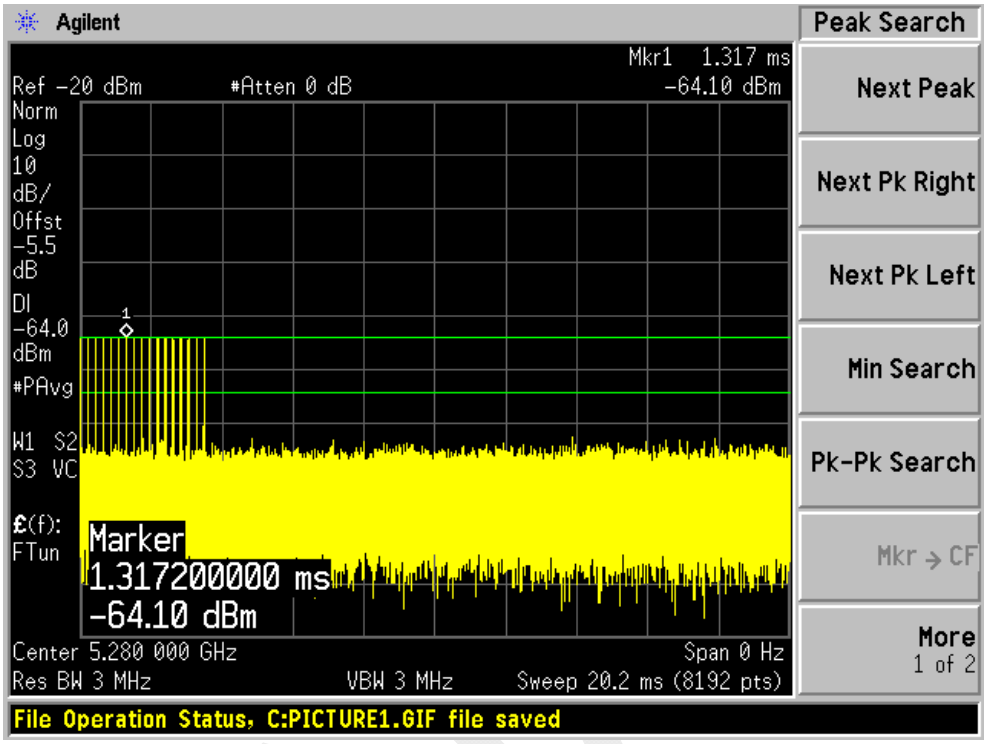
Radar Type 1B



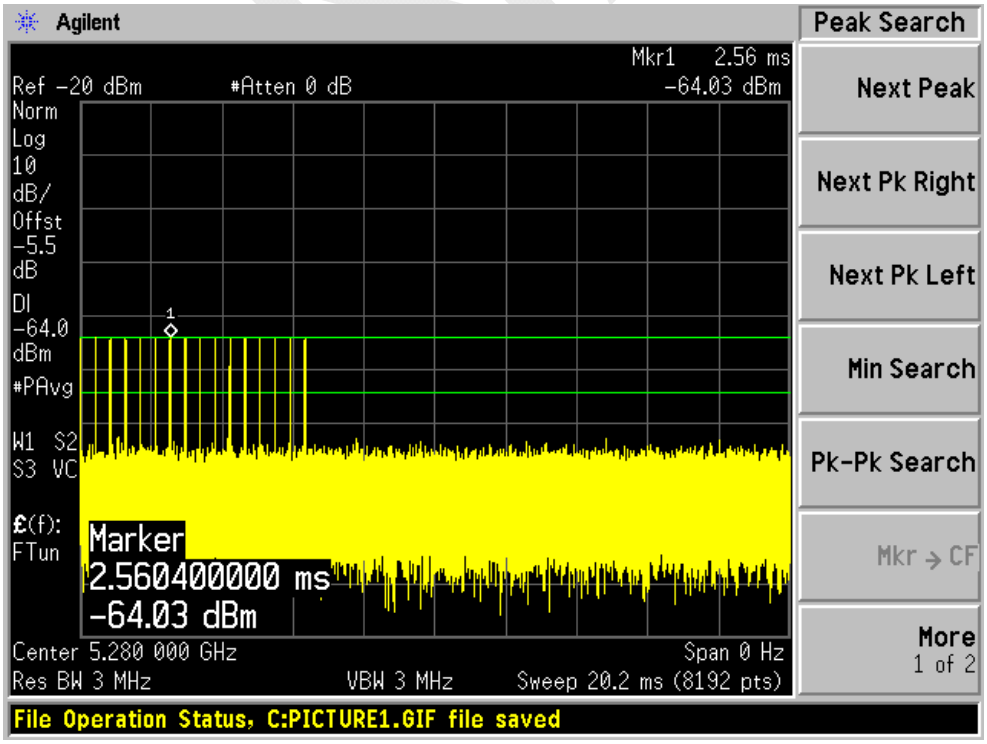
Radar Type 2



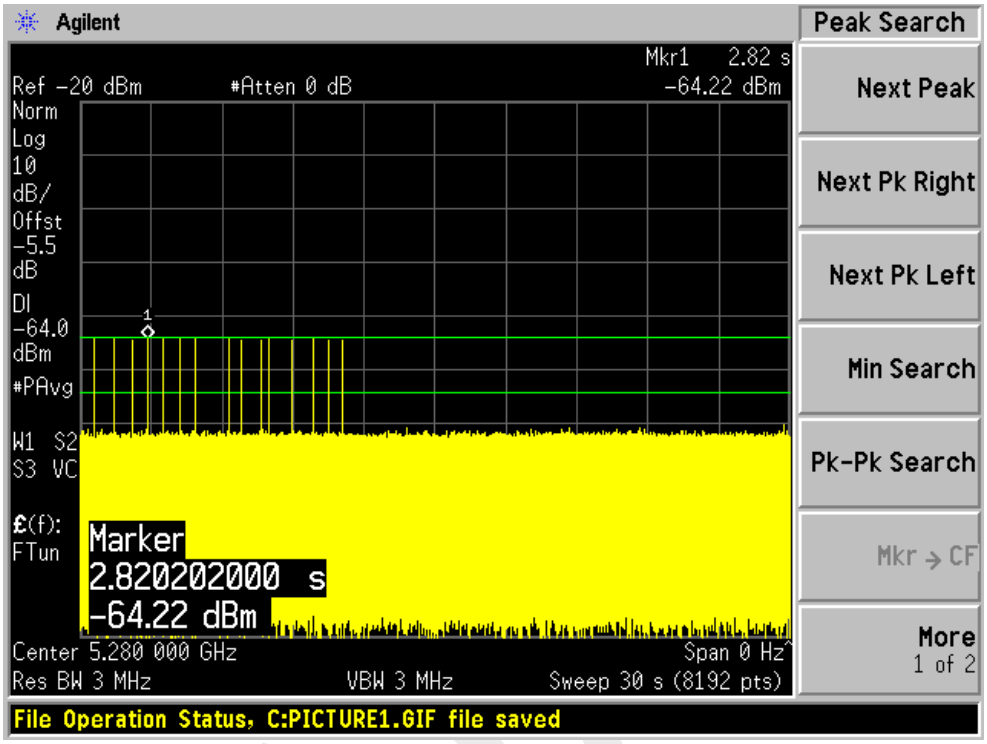
Radar Type 3



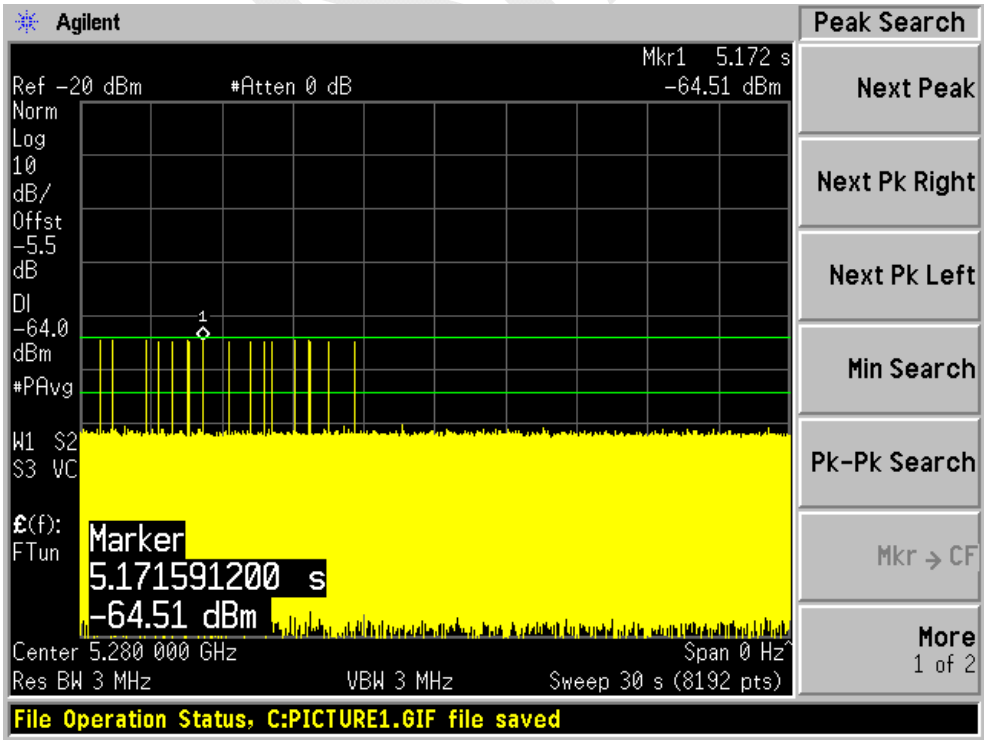
Radar Type 4



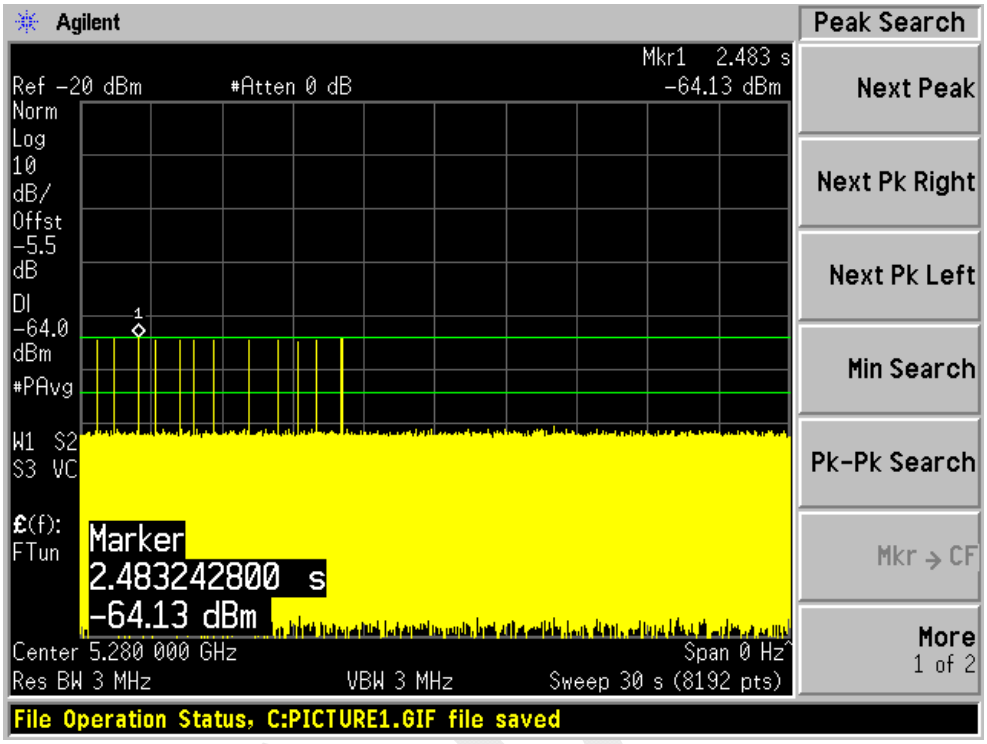
Radar Type 5 Case1



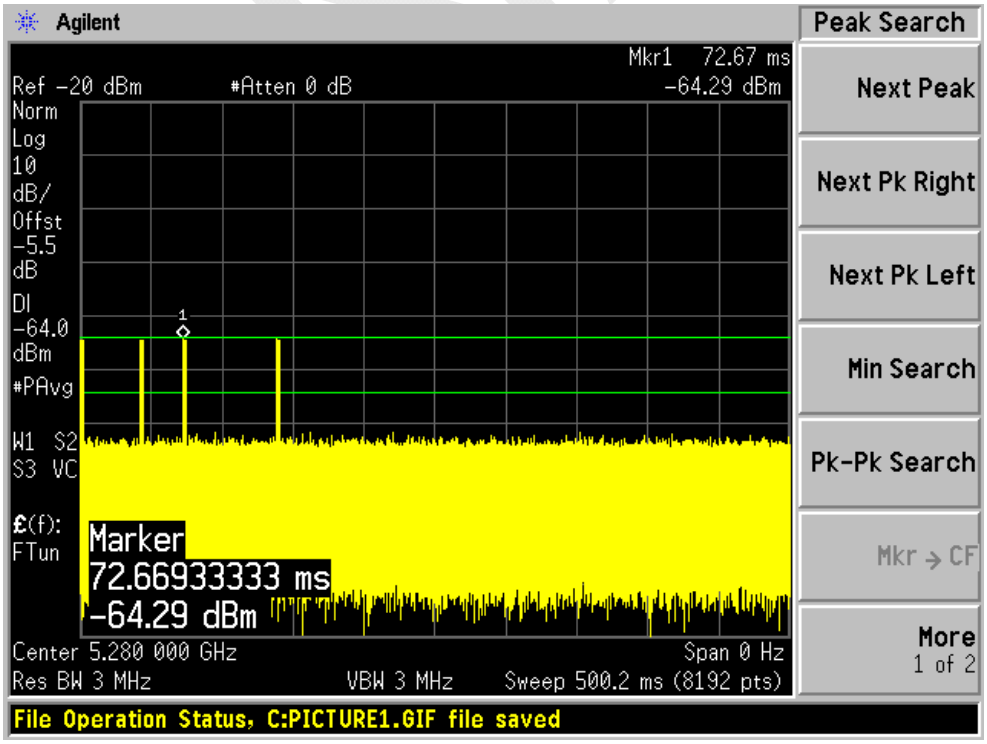
Radar Type 5 Case2



Radar Type 5 Case3

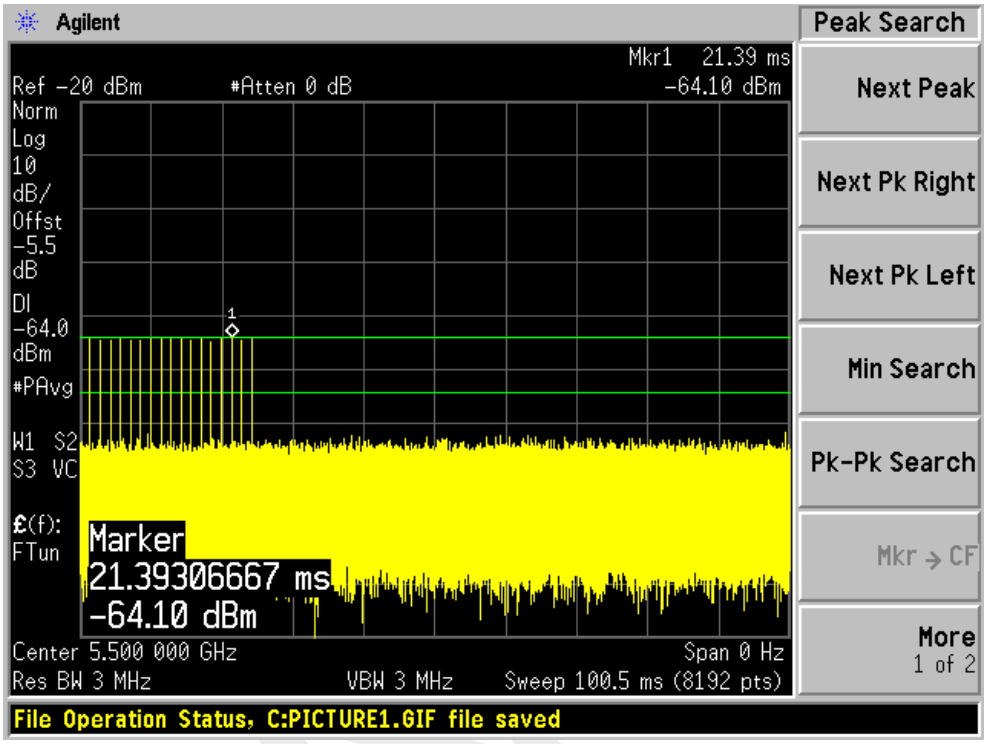


Radar Type 6

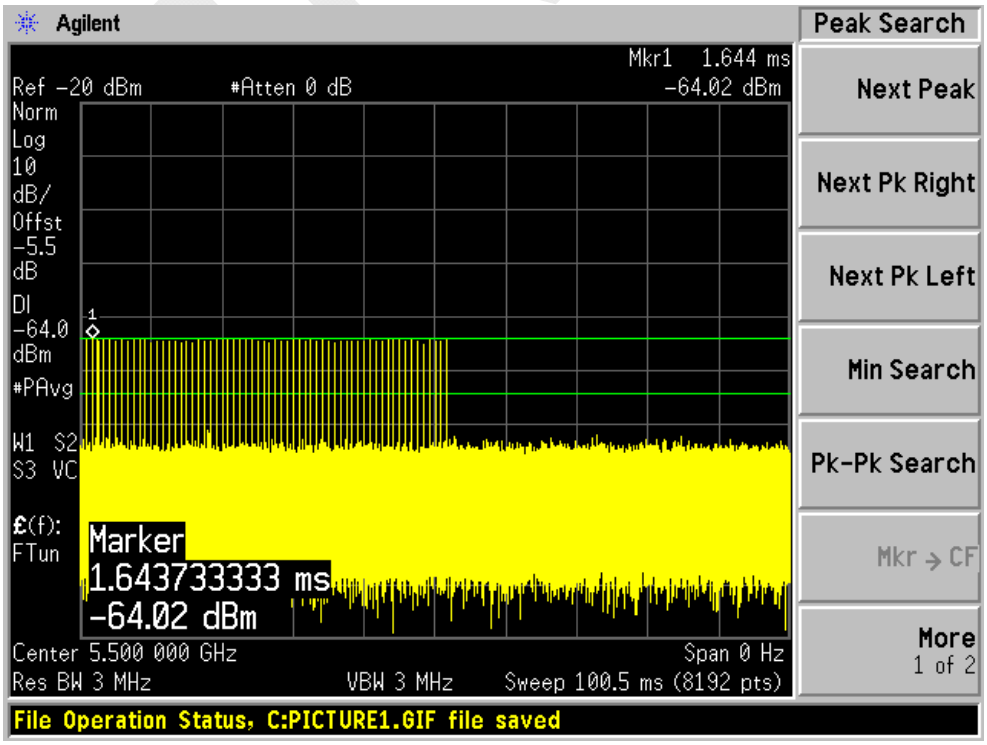


5500 MHz:

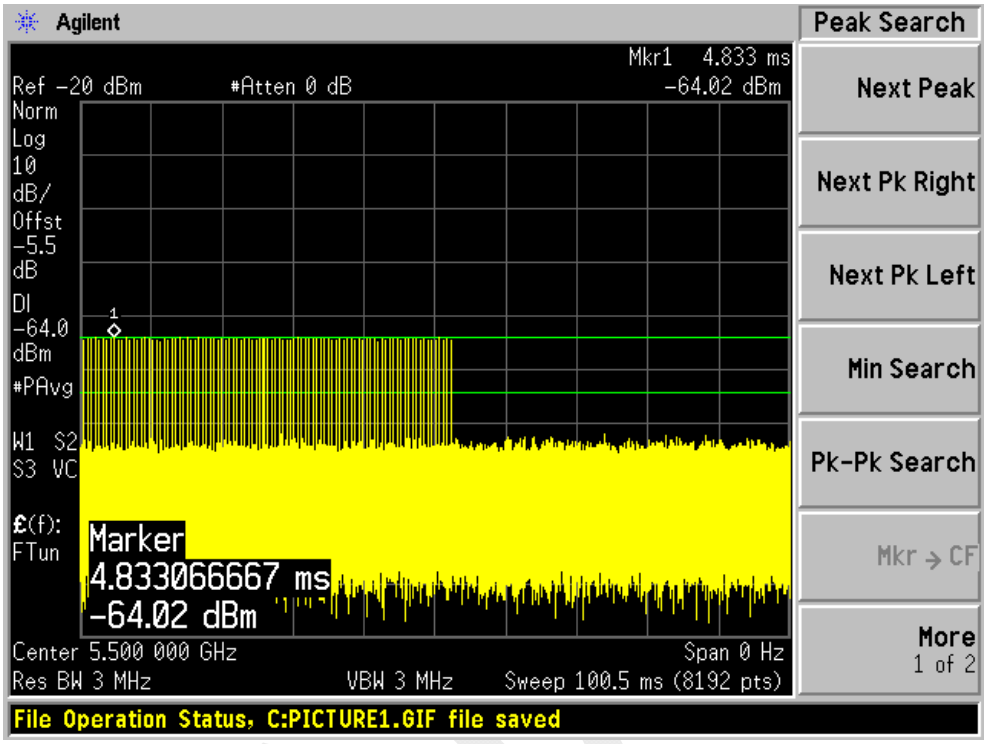
Radar Type 0



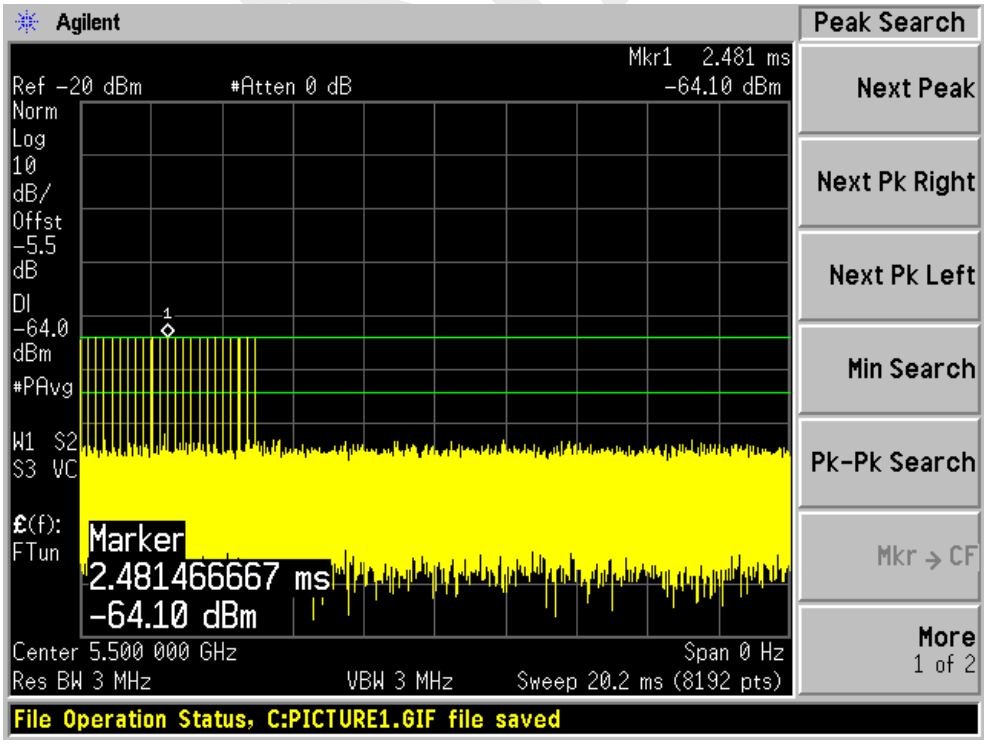
Radar Type 1A



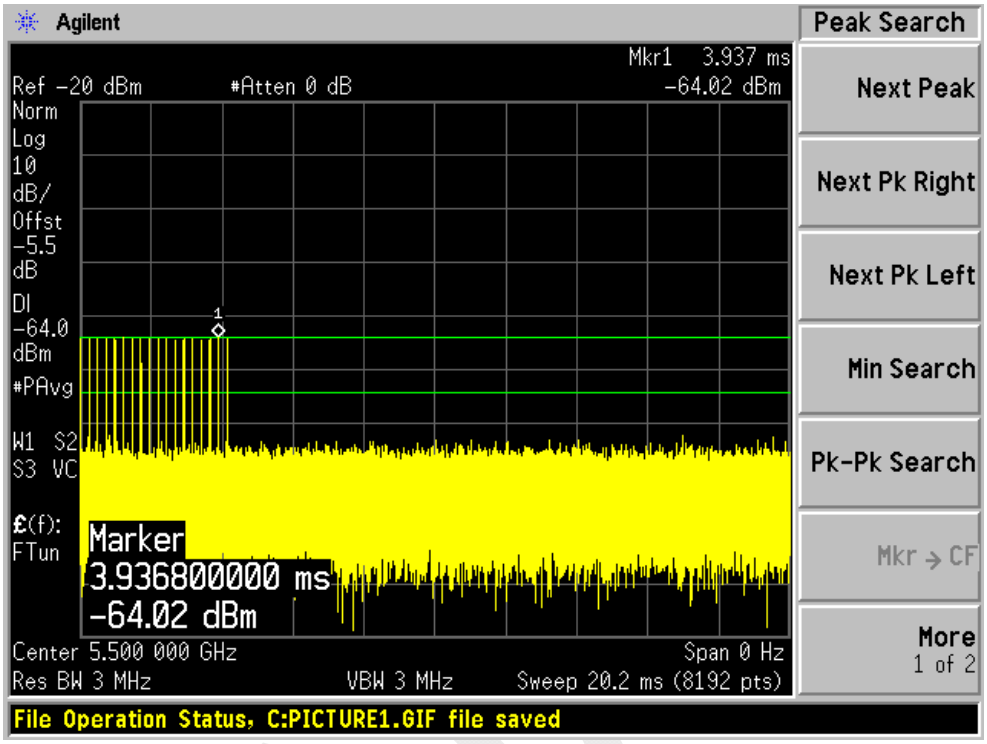
Radar Type 1B



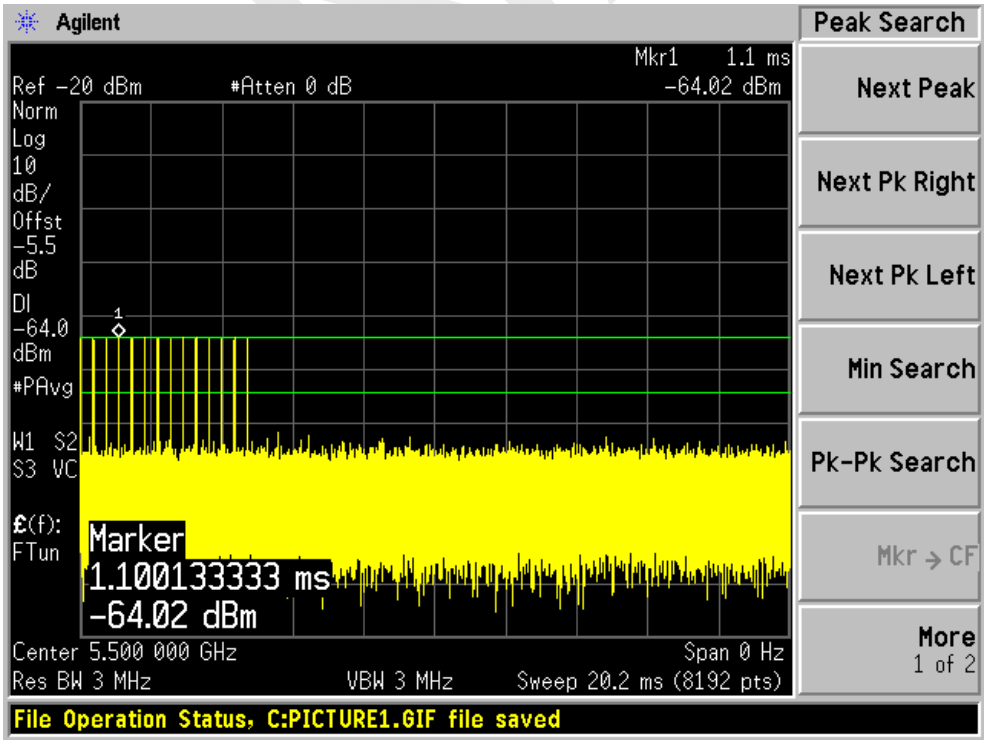
Radar Type 2



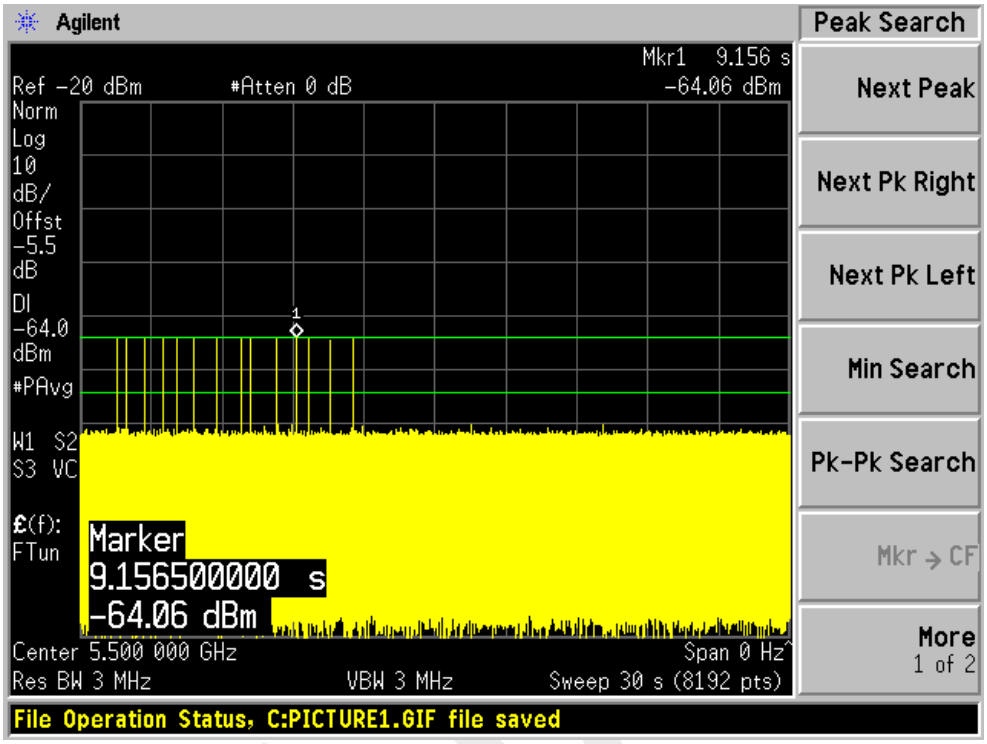
Radar Type 3



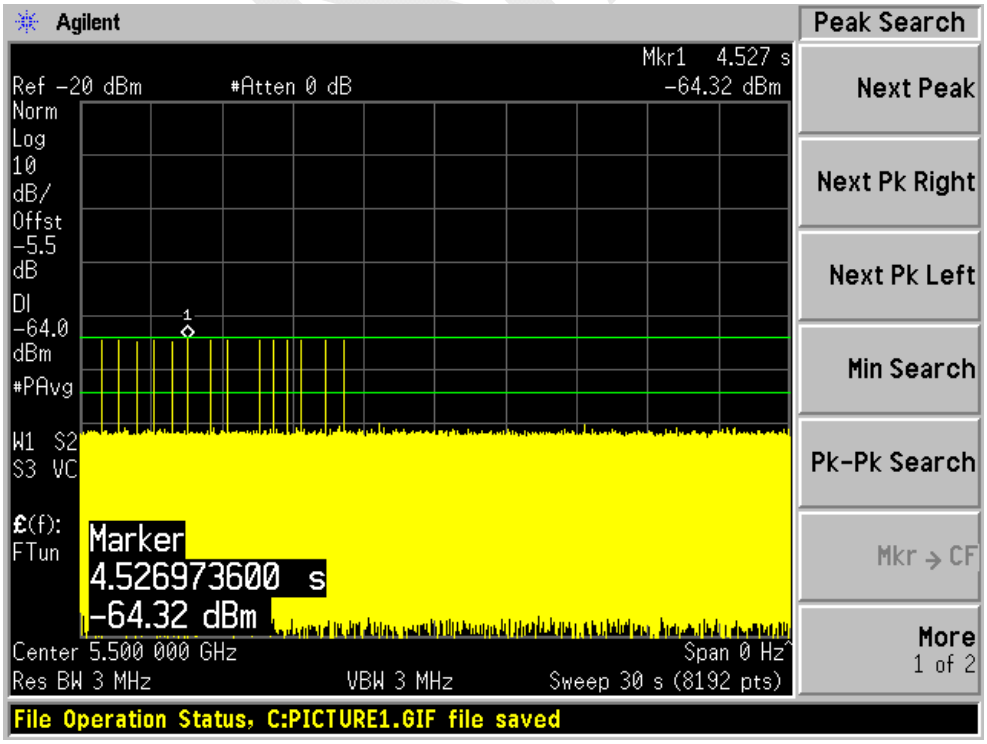
Radar Type 4



Radar Type 5 Case1



Radar Type 5 Case2



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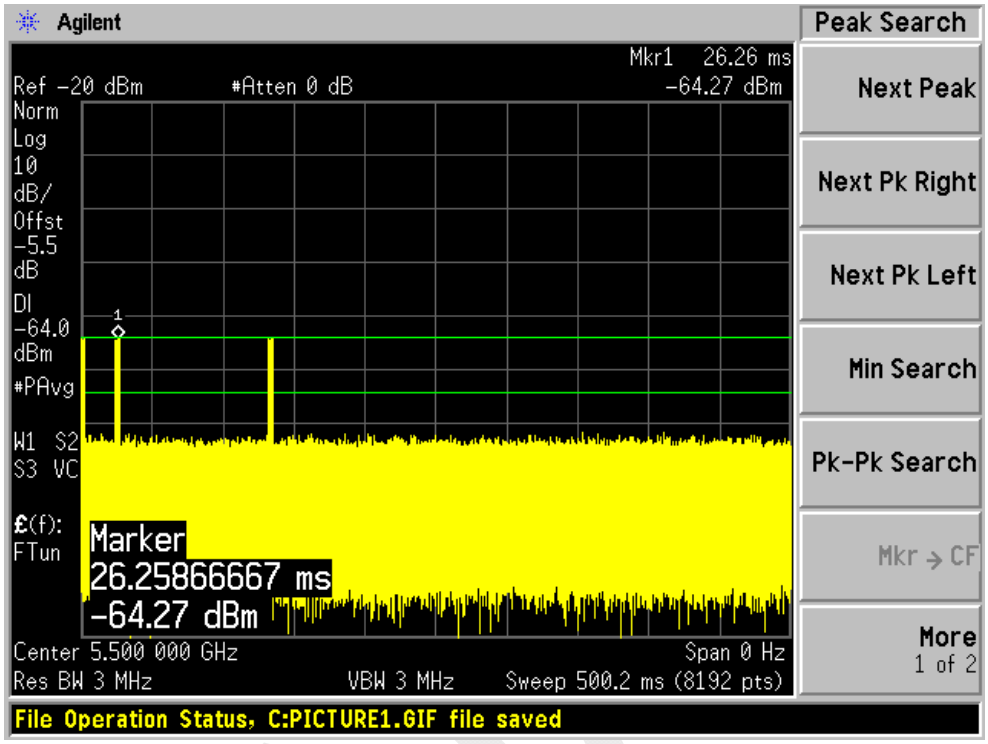
Agilent
Peak Search
Mkr1 26.26 ms
Ref -20 dBm
#Atten 0 dB
-64.27 dBm
Norm
Log
10
dB/
Offst
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dB
Dl
-64.0
dBm
#PAvg
W1 S2
S3 VC
£(f):
FTun
Marker
26.25866667 ms
-64.27 dBm
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Center 5.500 000 GHz
Span 0 Hz
Res BW 3 MHz
VBW 3 MHz
Sweep 500.2 ms (8192 pts)
File Operation Status, C:PICTURE1.GIF file saved

CHANNEL AVAILABILITY CHECK TIME (CAC)

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.

EUT Initial power-up Cycle Time

Test Frequency (MHz)	EUT initial Power-up cycle (Second)
5280	24.08
5500	24.08

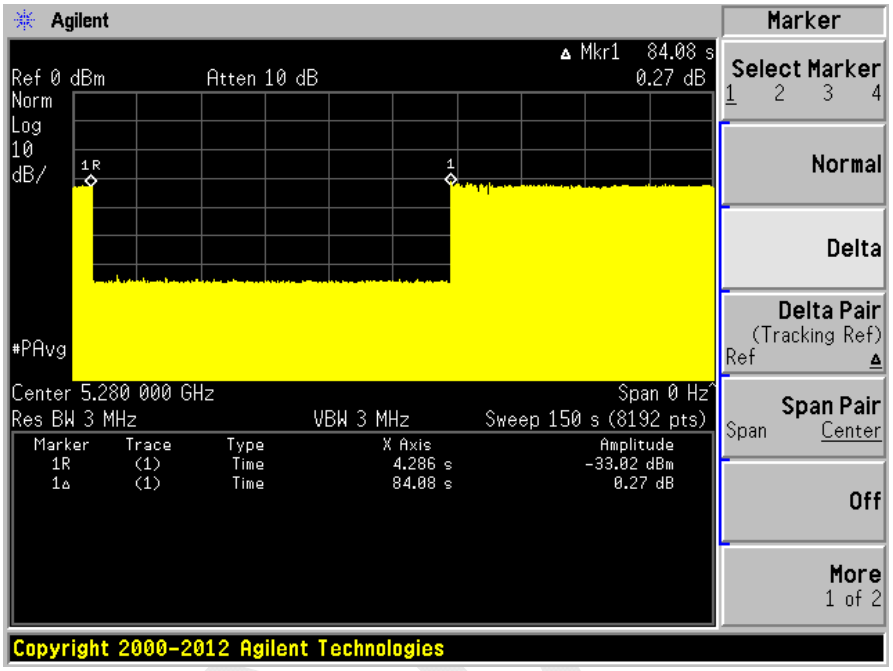
Results:

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.

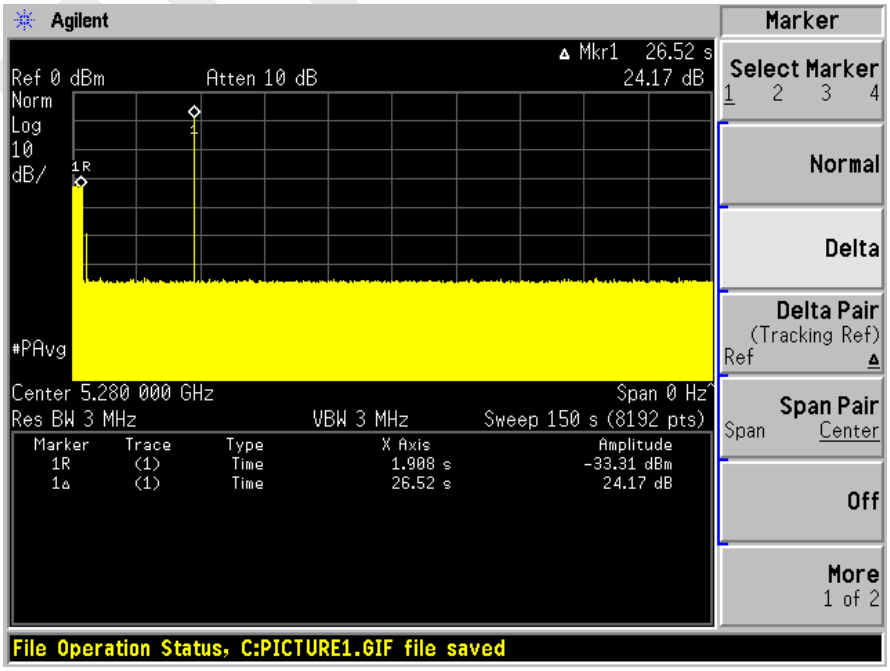
5280 MHz:

Plot of without Radar signal applied



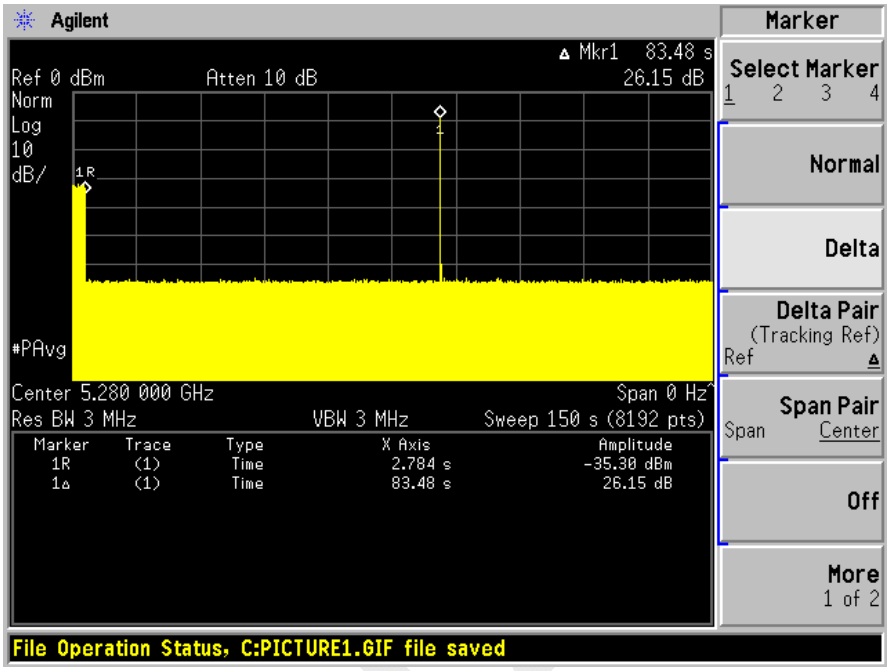
Note: The power-up cycle is 24.08 seconds.

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



No transmissions found after radar signal applied.

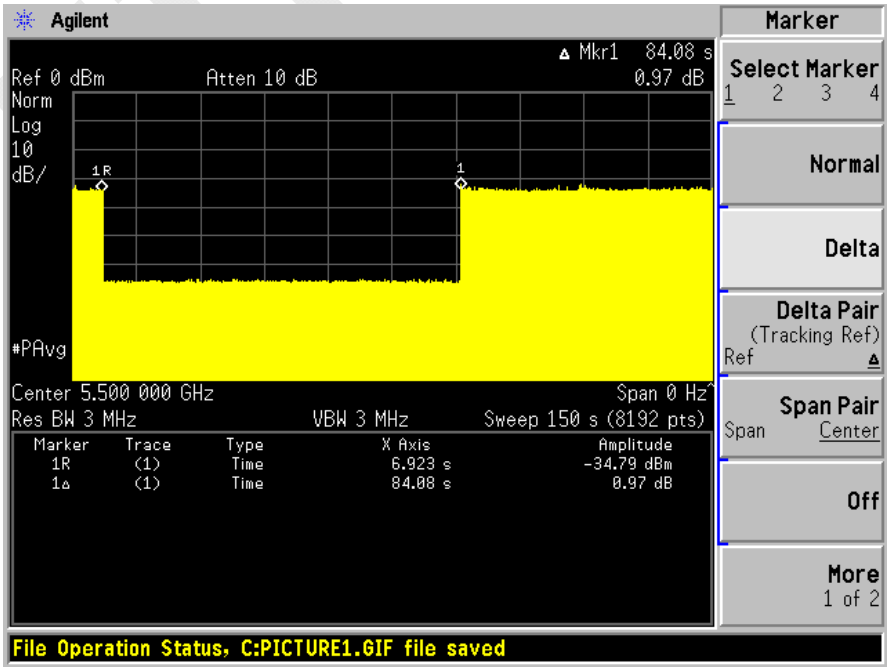
Plot of Radar signal applied at the end of 6 seconds of CAC



No transmissions found after radar signal applied.

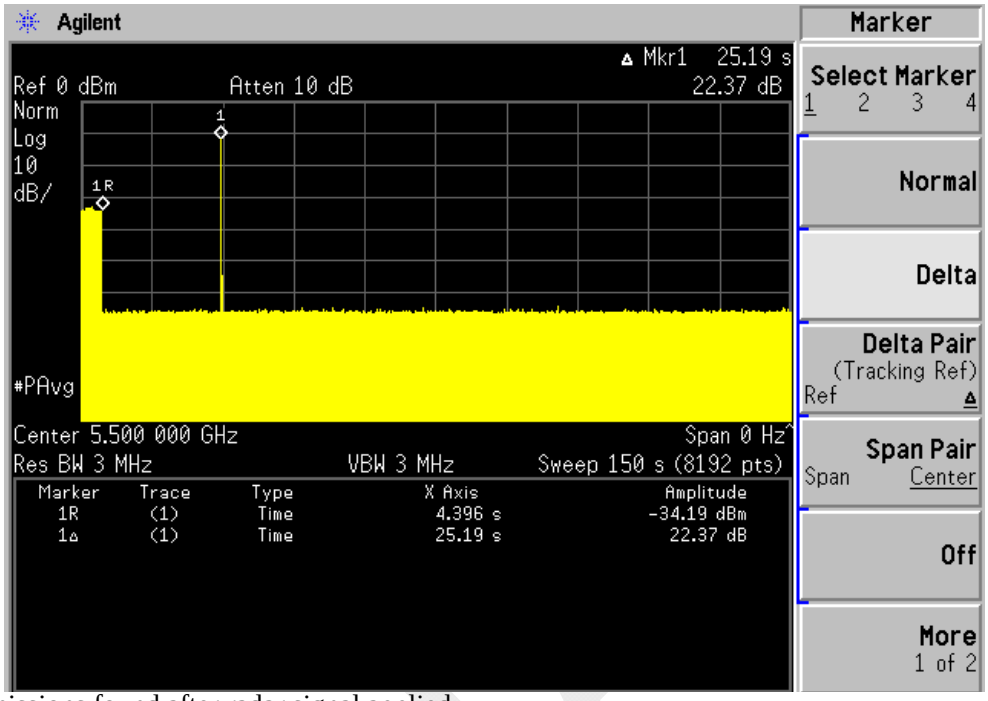
5500 MHz:

Plot of without Radar signal applied



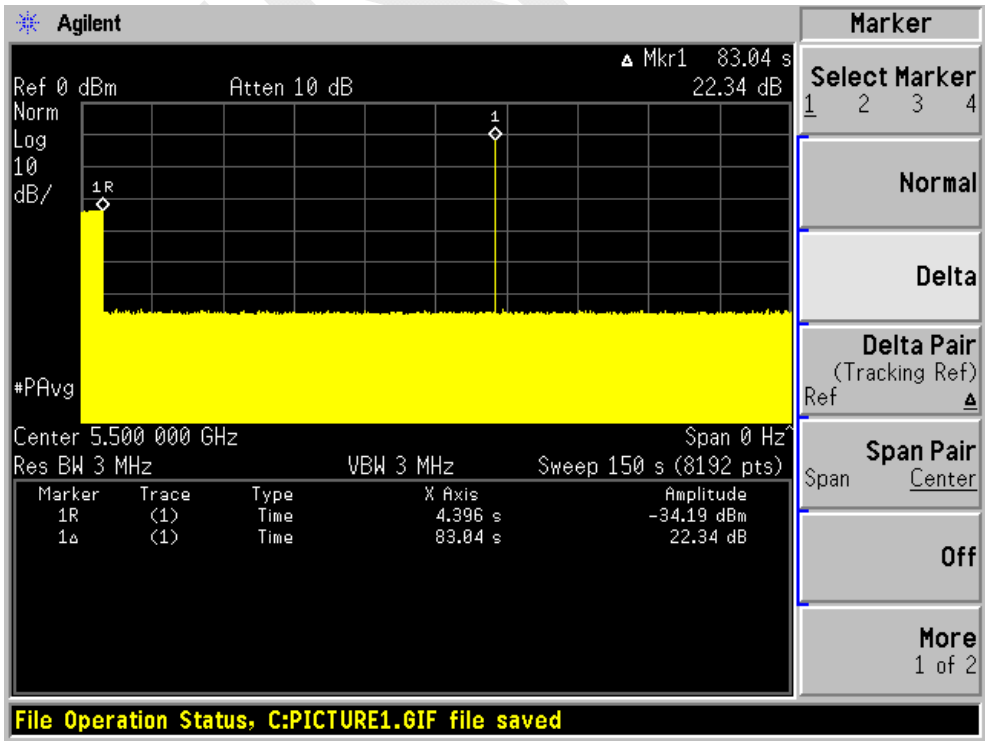
Note: The power-up cycle is 24.08 seconds.

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.

CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

Test Procedure

Perform type 0 short pulse radar waveform, repeat using a long pulse radar type5 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)

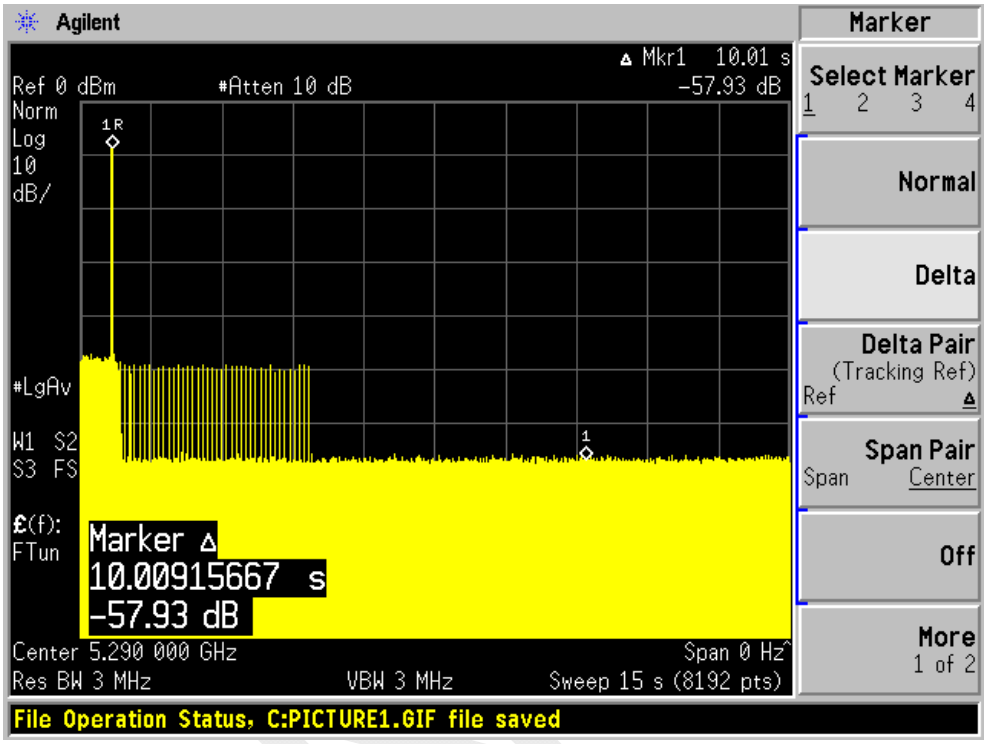
Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5290	80	Type 0	Compliant
5530	80	Type 0	Compliant

Please refer to the following tables and plots.

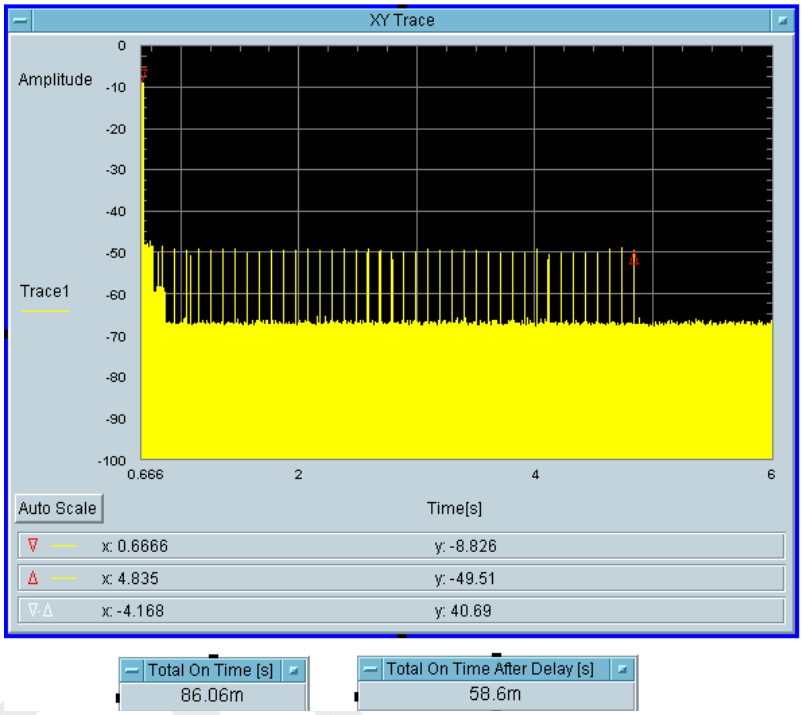
5290 MHz

Type 0 radar channel move time result:



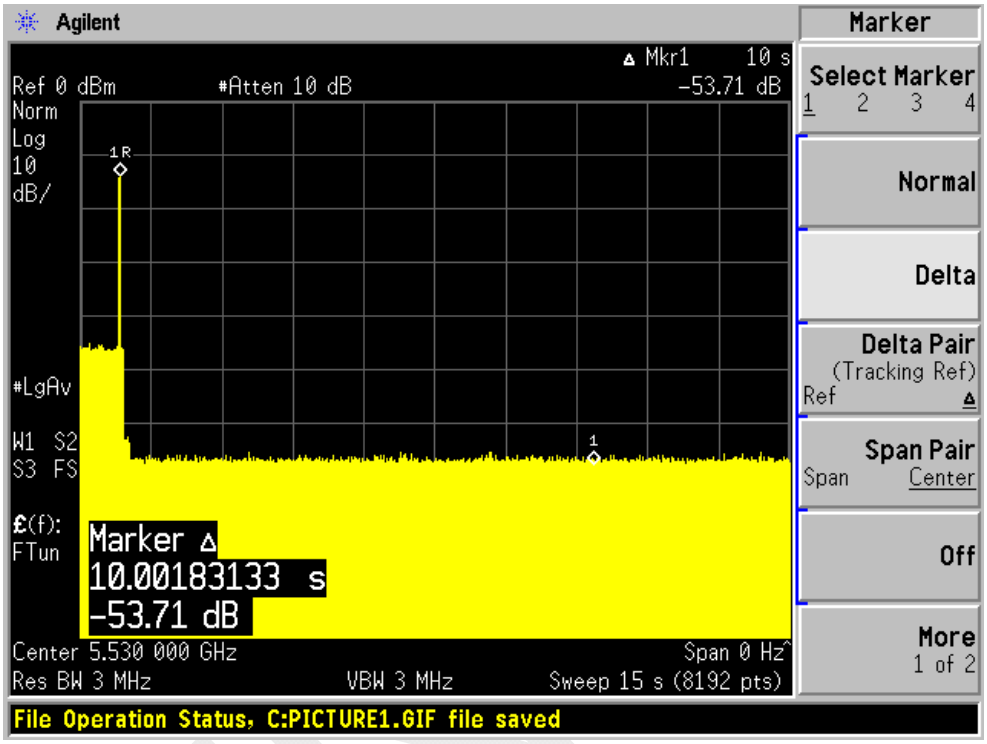
Type0 radar channel closing transmission time result:

Transmission After 200ms	Aggregate Transmission Time After 200ms Delay (ms)	Limit for Aggregate Transmission Time After 200ms Delay (ms)	Result
Yes	58.6	60	Pass



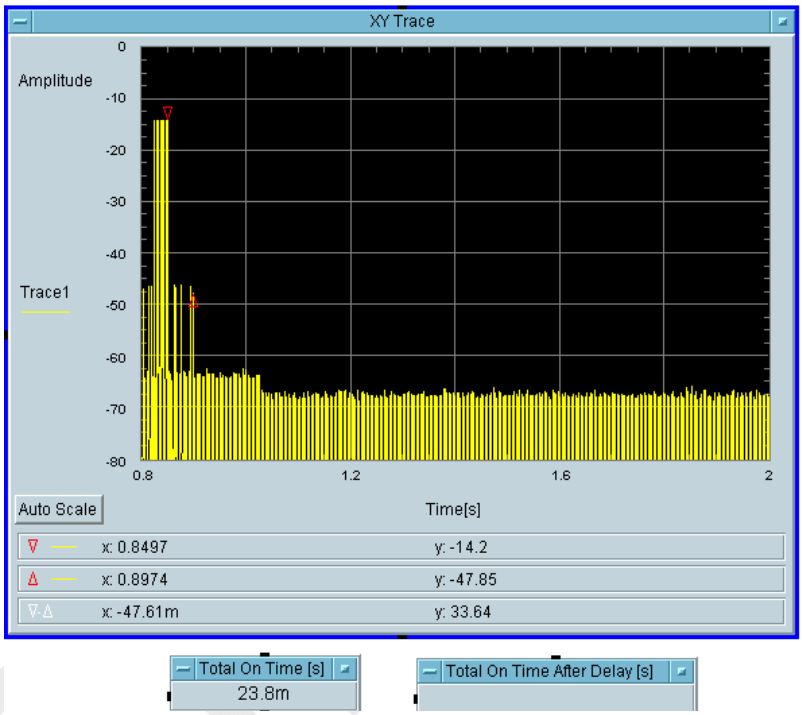
5530 MHz

Type 0 radar channel move time result:



Type0 radar channel closing transmission time result:

Transmission After 200ms	Aggregate Transmission Time After 200ms (ms)	Limit for Aggregate Transmission Time After 200ms (ms)	Result
No	0	60	Pass



NON-OCCUPANCY PERIOD

Test Procedure

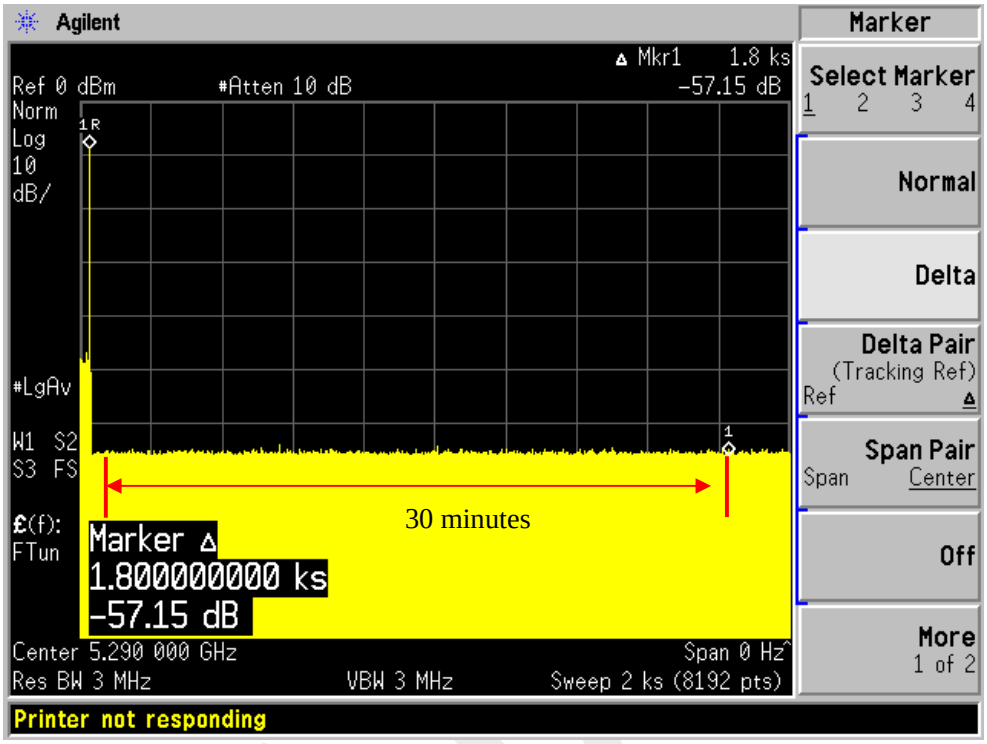
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

Test Result

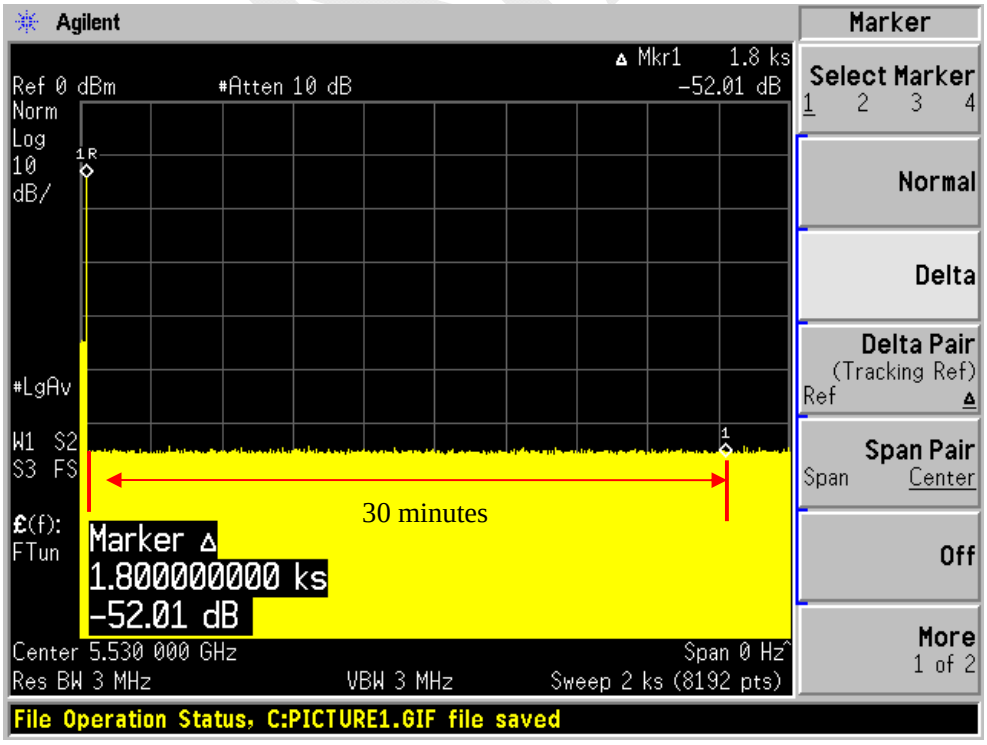
Frequency(MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

Please refer to the following plots.

5290 MHz



5530 MHz



DETECTION BANDWIDTH

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-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.

Test Result

Frequency (MHz)	Bandwidth Systems (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Minimum Limit	Result
5280	20	5270	5290	20	18.04	100%	Compliance
5270	40	5250	5290	40	37.03	100%	Compliance
5290	80	5251	5329	78	75.99	100%	Compliance
5500	20	5490	5510	20	18.92	100%	Compliance
5510	40	5491	5530	39	37.03	100%	Compliance
5530	80	5491	5570	79	76.31	100%	Compliance

Please refer to the following tables and plots.

Results of Detection Bandwidth:

20MHz Bandwidth, EUT Frequency = 5280MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5270(F_L)	1	1	0	1	1	1	1	1	1	1	90 %
5271	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5273	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5287	1	1	1	1	1	1	1	1	1	1	100 %
5288	1	1	1	1	1	1	1	1	1	1	100 %
5289	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$ = 5290-5270 = 20 MHz											
EUT 99% BW = 18.04 MHz; **Result:** Pass											

20MHz Bandwidth, EUT Frequency = 5500MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5491	1	1	1	1	1	1	1	1	1	1	100 %
5492	1	1	1	1	1	1	1	1	1	1	100 %
5493	1	1	1	1	1	1	1	1	1	1	100 %
5494	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5506	1	1	1	1	1	1	1	1	1	1	100 %
5507	1	1	1	1	1	1	1	1	1	1	100 %
5508	1	1	1	1	1	1	1	1	1	1	100 %
5509	1	1	1	1	1	1	1	1	1	1	100 %
5510(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$ = 5510-5490 = 20 MHz											
EUT 99% BW = 18.92 MHz; **Result:** Pass											

40MHz Bandwidth, EUT Frequency = 5270 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_L)	1	1	1	1	1	1	1	1	1	1	100 %
5251	1	1	1	1	1	1	1	1	1	1	100 %
5252	1	1	1	1	1	1	1	1	1	1	100 %
5253	1	1	1	1	1	1	1	1	1	1	100 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
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 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5287	1	1	1	1	0	1	1	1	1	1	90 %
5288	1	0	1	1	1	1	1	1	1	1	90 %
5289	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$ = 5290-5250 = 40 MHz											
EUT 99% BW = 37.03 MHz;											**Result:** Pass

40MHz Bandwidth, EUT Frequency = 5510 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5491(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5492	1	1	1	1	1	1	1	1	1	1	100 %
5493	1	1	1	1	1	1	1	1	1	1	100 %
5494	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5526	1	1	1	1	1	1	1	1	1	1	100 %
5527	1	1	1	1	1	1	1	1	1	1	100 %
5528	1	1	1	1	1	1	1	1	1	1	100 %
5529	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$ = 5530-5491 = 39 MHz											
EUT 99% BW = 37.03 MHz;											**Result:** Pass

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 (%)**
5251(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5252	1	1	1	1	1	1	1	1	1	1	100 %
5253	1	1	1	1	1	1	1	1	1	1	100 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5326	1	1	1	1	1	1	1	1	1	1	100 %
5327	1	1	1	1	1	1	1	1	1	1	100 %
5328	1	1	1	1	1	1	1	1	1	1	100 %
5329(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$ = 5329-5251 = 78 MHz											
EUT 99% BW = 75.99 MHz											**Result:** Pass

80MHz Bandwidth, EUT Frequency = 5530 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5491(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5492	1	1	1	1	1	1	1	1	1	1	100 %
5493	1	1	1	1	1	1	1	1	1	1	100 %
5494	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5566	1	1	1	1	1	1	1	1	1	1	100 %
5567	1	1	1	1	1	1	1	1	1	1	100 %
5568	1	1	1	1	1	1	1	1	1	0	100 %
5569	1	1	1	1	1	1	1	1	1	0	100 %
5570(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$ = 5570-5491 = 79MHz											
EUT 99% BW = 76.31 MHz; **Result:** Pass											

STATISTICAL PERFORMANCE CHECK

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).

Result:

5250-5350MHz, 20MHz:

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	100%	60%	pass
Type 1B	15	100%		
Type 2	30	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate(Type1 to 4)	120	98.3 %	80%	Pass
Type 5	30	90%	80%	Pass
Type 6	30	96.7 %	70%	Pass

Please refer to the following statistical tables:

5280MHz

Radar Type 1A Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5280	76	1	698	1
2	5280	58	1	918	1
3	5280	86	1	618	1
4	5280	63	1	838	1
5	5280	95	1	558	1
6	5280	65	1	818	1
7	5280	83	1	638	1
8	5280	74	1	718	1
9	5280	62	1	858	1
10	5280	61	1	878	1
11	5280	18	1	3066	1
12	5280	70	1	758	1
13	5280	81	1	658	1
14	5280	67	1	798	1
15	5280	89	1	598	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	5280	19	1	2818	1
2	5280	19	1	2869	1
3	5280	44	1	1212	1
4	5280	24	1	2215	1
5	5280	31	1	1744	1
6	5280	24	1	2262	1
7	5280	42	1	1272	1
8	5280	23	1	2370	1
9	5280	29	1	1868	1
10	5280	19	1	2782	1
11	5280	21	1	2609	1
12	5280	62	1	862	1
13	5280	27	1	1988	1
14	5280	28	1	1926	1
15	5280	54	1	986	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	5280	28	3.7	195	1
2	5280	24	2.6	164	1
3	5280	25	4.2	151	1
4	5280	29	2.5	192	1
5	5280	27	1.1	179	1
6	5280	27	3.3	174	1
7	5280	29	4.3	224	1
8	5280	25	3.2	207	1
9	5280	29	3.9	200	1
10	5280	27	1.8	204	1
11	5280	26	2.4	196	1
12	5280	24	4.7	179	1
13	5280	27	1.1	188	1
14	5280	28	1.6	152	1
15	5280	26	4.6	163	1
16	5280	25	4.8	153	1
17	5280	26	1.7	187	1
18	5280	29	4.6	178	1
19	5280	29	2.4	227	1
20	5280	27	1.2	178	1
21	5280	23	1.2	217	1
22	5280	28	4.3	155	1
23	5280	26	5	201	1
24	5280	27	3.4	202	1
25	5280	29	2.2	198	1
26	5280	24	4.4	229	1
27	5280	23	3.3	222	1
28	5280	23	4.4	213	1
29	5280	29	4.6	201	1
30	5280	24	4.9	165	1
Detection Percentage: 100 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5280	16	6	353	1
2	5280	17	7.3	252	1
3	5280	17	9.8	420	1
4	5280	17	7.1	214	1
5	5280	18	7.5	415	1
6	5280	18	9.9	264	1
7	5280	17	6.3	306	1
8	5280	17	7.5	354	1
9	5280	18	8	323	1
10	5280	17	8.5	256	1
11	5280	18	9.9	493	1
12	5280	16	9.6	416	1
13	5280	18	9.3	492	1
14	5280	17	9.6	370	1
15	5280	17	7.7	366	1
16	5280	16	7.2	341	1
17	5280	18	9	263	1
18	5280	16	7.1	355	1
19	5280	16	7.3	284	1
20	5280	16	8	216	1
21	5280	18	6.5	470	1
22	5280	16	8.1	217	1
23	5280	17	7.6	414	1
24	5280	16	8	469	1
25	5280	16	6.5	440	1
26	5280	18	6.3	371	1
27	5280	18	7	343	1
28	5280	17	7.8	286	1
29	5280	16	6.9	370	1
30	5280	16	8.8	448	1
Detection Percentage: 100 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5280	12	14.6	241	1
2	5280	14	13.4	215	1
3	5280	14	13.5	492	1
4	5280	14	14.9	236	1
5	5280	13	16.6	285	1
6	5280	16	12.5	243	1
7	5280	15	17.9	373	1
8	5280	15	20	344	1
9	5280	13	15.4	243	1
10	5280	15	19.3	488	1
11	5280	16	12.7	416	1
12	5280	16	16.1	378	1
13	5280	16	20	217	1
14	5280	14	13.9	399	1
15	5280	16	18.1	340	1
16	5280	16	14.9	377	1
17	5280	16	19.3	253	1
18	5280	14	18.8	277	1
19	5280	16	12.8	421	1
20	5280	15	19.8	335	1
21	5280	16	14.5	349	1
22	5280	13	13.4	280	1
23	5280	16	15.3	451	1
24	5280	16	13.1	242	1
25	5280	12	16.2	400	0
26	5280	12	14.8	247	0
27	5280	16	17	229	1
28	5280	12	13.3	405	1
29	5280	12	19.5	208	1
30	5280	13	17.9	258	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 5 Case1 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	10	73.3	1343	/	0.230045	0
1	3	10	67.1	1234	1150	1.371152	
2	1	10	68.1	/	/	2.608019	
3	1	10	61.9	/	/	3.993001	
4	2	10	66	1129	/	4.726757	
5	2	10	86.9	1833	/	6.057706	
6	1	10	77.3	/	/	7.051235	
7	2	10	56.6	1135	/	8.247852	
8	2	10	94	1802	/	9.506652	
9	2	10	89.5	1863	/	10.223099	
10	2	10	72.6	1852	/	11.155459	

Statistics 2 (ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	12	99	1263	/	0.452927	1
1	2	12	53.2	1512	/	0.954963	
2	1	12	87.7	/	/	2.686396	
3	2	12	54.1	1375	/	2.78018	
4	3	12	82.2	1185	1437	4.437473	
5	2	12	98.6	1444	/	5.237085	
6	1	12	83.8	/	/	6.035011	
7	2	12	59	1090	/	6.906466	
8	2	12	68.5	1237	/	8.155838	
9	2	12	64	1664	/	9.201232	
10	2	12	55.3	1546	/	9.563212	
11	3	12	71.3	1265	1309	10.6042	
12	3	12	99.1	1780	1235	11.30055	

Statistics 3 (ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	12	53.1	1822	1745	0.082604	1
1	3	12	84.4	1684	1226	0.652396	
2	3	12	94.9	1168	1505	1.765665	
3	1	12	81.9	/	/	2.038502	
4	1	12	71.4	/	/	2.631384	
5	3	12	71.5	1360	1660	3.246831	
6	3	12	61.3	1141	1626	4.390393	
7	3	12	97.9	1018	1494	4.4404	
8	1	12	83.7	/	/	5.233826	
9	2	12	66	1188	/	5.89453	
10	1	12	72	/	/	6.881776	
11	2	12	97.2	1578	/	7.470227	
12	1	12	77	/	/	8.156395	
13	3	12	99.9	1636	1985	8.471654	
14	3	12	85.6	1130	1564	9.353418	
15	1	12	89.8	/	/	9.547285	
16	2	12	98.5	1046	/	10.147835	
17	2	12	80.1	1053	/	11.302726	
18	3	12	55.7	1205	1280	11.829925	

Statistics 4 (ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	7	96.1	1951	/	0.035646	1
1	1	7	73.9	/	/	1.095637	
2	1	7	72.9	/	/	1.646069	
3	2	7	97.4	1261	/	2.232402	
4	2	7	71.4	1562	/	3.008657	
5	2	7	98.4	1273	/	3.673159	
6	2	7	88.4	1039	/	4.559529	
7	3	7	83.8	1327	1951	5.209699	
8	2	7	90.5	1453	/	5.932874	
9	3	7	98.4	1380	1990	6.849117	
10	2	7	77.2	1688	/	7.418838	
11	3	7	80.3	1222	1304	8.131801	
12	1	7	54.4	/	/	8.838391	
13	2	7	75.5	1986	/	9.45785	
14	2	7	75.2	1210	/	10.147595	
15	2	7	98	1720	/	11.065113	
16	1	7	52.4	/	/	11.88767	

Statistics 5(ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	13	94.6	1113	1900	0.07152	1
1	2	13	61.3	1335	/	1.375196	
2	3	13	62.4	1822	1694	2.162907	
3	2	13	98.2	1488	/	2.915637	
4	1	13	58.4	/	/	3.266222	
5	3	13	81.9	1789	1696	4.623624	
6	1	13	87.1	/	/	4.977537	
7	2	13	97.5	1645	/	6.357849	
8	2	13	99.5	1663	/	7.184061	
9	1	13	86.6	/	/	7.636239	
10	2	13	97.8	1056	/	8.369272	
11	1	13	91	/	/	9.363598	
12	2	13	96.6	1820	/	9.640209	
13	2	13	98	1659	/	10.841572	
14	2	13	57.2	1029	/	11.511783	

Statistics 6 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	13	51.3	/	/	0.037175	1
1	3	13	59.1	1544	1729	2.191527	
2	3	13	65.2	1106	1709	3.471022	
3	1	13	79.5	/	/	3.930705	
4	2	13	96	1004	/	5.099472	
5	3	13	91.6	1130	1808	6.016922	
6	1	13	59.6	/	/	7.924334	
7	3	13	83.5	1429	1714	9.252971	
8	3	13	52.3	1391	1025	10.067937	
9	2	13	60.3	1100	/	11.641148	

Statistics 7(ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	13	63.8	1537	/	0.632691	
1	2	13	95	1388	/	1.227593	
2	1	13	82.2	/	/	1.871778	
3	2	13	57.3	1631	/	2.954219	
4	3	13	92.4	1609	1657	3.6665	
5	2	13	61.2	1129	/	4.479447	
6	2	13	88.9	1789	/	5.324866	
7	1	13	95.7	/	/	6.084316	1
8	2	13	58.3	1422	/	7.150928	
9	3	13	63.7	1417	1559	7.208291	
10	2	13	52	1405	/	8.128204	
11	2	13	57.6	1695	/	9.518946	
12	2	13	81.5	1892	/	10.367391	
13	1	13	86.5	/	/	10.585047	
14	1	13	94.7	/	/	11.884869	

Statistics 8 (ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	7	88.5	1278	/	1.199603	
1	2	7	81	1708	/	2.780256	
2	2	7	67.6	1023	/	3.519958	
3	2	7	55.9	1170	/	5.905262	
4	2	7	82.9	1016	/	6.385907	1
5	1	7	83.3	/	/	7.863702	
6	1	7	96.5	/	/	9.857172	
7	2	7	72.3	1958	/	11.887297	

Statistics 9 (ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	9	92.2	1592	1144	0.284994	1
1	3	9	62.4	1458	1848	0.729323	
2	2	9	55.5	1453	/	1.739396	
3	3	9	99.1	2000	1246	2.263192	
4	1	9	65.6	/	/	2.988133	
5	1	9	87.4	/	/	3.022966	
6	3	9	62.3	1213	1650	4.156321	
7	2	9	74.8	1505	/	4.675388	
8	2	9	94.4	1458	/	4.94499	
9	2	9	97.6	1124	/	5.728292	
10	1	9	61.4	/	/	6.203946	
11	3	9	85.5	1572	1362	6.796203	
12	3	9	56.9	1793	1273	7.407577	
13	2	9	76.3	1782	/	8.19615	
14	1	9	90	/	/	8.673983	
15	2	9	67.9	1196	/	9.266339	
16	1	9	50.2	/	/	9.990735	
17	2	9	69.3	1096	/	10.669955	
18	2	9	92.6	1127	/	10.874393	
19	1	9	80.7	/	/	11.83337	

Statistics 10 (ChirpCenter Frequency: 5280 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	8	77.5	1581	/	0.05106	1
1	3	8	73.6	1572	1691	1.132756	
2	3	8	92.5	1579	1835	1.861439	
3	2	8	59.9	1368	/	3.012005	
4	1	8	54.6	/	/	4.426165	
5	2	8	57.5	1486	/	4.678632	
6	1	8	89.5	/	/	5.570541	
7	3	8	75.8	1158	1528	6.587345	
8	2	8	73.8	1432	/	7.812433	
9	2	8	64.6	1389	/	8.798743	
10	3	8	95.6	1322	1593	9.255641	
11	2	8	95.9	1660	/	10.322946	
12	1	8	94.4	/	/	11.863389	

Radar Type 5 Case2 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5278MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	17	98	1782	/	0.594569	1
1	2	17	71.7	1568	/	1.061663	
2	1	17	62.1	/	/	1.825566	
3	2	17	56.9	1588	/	2.255608	
4	1	17	76.2	/	/	3.12767	
5	1	17	83.3	/	/	3.645064	
6	1	17	73.3	/	/	4.608752	
7	2	17	66.4	1852	/	5.318112	
8	2	17	97.2	1294	/	5.876041	
9	2	17	75	1278	/	6.61194	
10	3	17	90.1	1787	1339	7.233047	
11	3	17	93.4	1139	1103	7.773434	
12	2	17	91.2	1040	/	8.663508	
13	3	17	67.8	1724	1820	9.72467	
14	2	17	69.6	1513	/	10.18605	
15	1	17	53.6	/	/	10.791768	
16	2	17	64.4	1729	/	11.99392	

Statistics 2 (ChirpCenter Frequency: 5278 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	68.7	1922	/	0.115318	1
1	2	16	59.2	1776	/	0.932613	
2	1	16	65.6	/	/	1.532945	
3	2	16	69.2	1812	/	2.475412	
4	2	16	64.7	1372	/	2.818923	
5	1	16	93.8	/	/	3.825169	
6	3	16	51.9	1980	1897	4.258295	
7	2	16	98.9	1560	/	4.881076	
8	1	16	67.7	/	/	5.497342	
9	3	16	82.9	1085	1402	6.610089	
10	2	16	94.8	1868	/	7.227305	
11	2	16	65.5	1834	/	7.591829	
12	3	16	54.8	1403	1125	8.538921	
13	2	16	94.2	1595	/	8.971896	
14	2	16	70.5	1398	/	9.994793	
15	1	16	58.5	/	/	10.488559	
16	2	16	73.2	1603	/	11.31967	
17	2	16	65	1571	/	11.896654	

Statistics 3 (ChirpCenter Frequency: 5278 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	17	78.2	1799	/	0.526888	1
1	2	17	73.9	1292	/	0.937117	
2	2	17	55.7	1425	/	2.09709	
3	2	17	70.1	1824	/	3.607054	
4	2	17	73.6	1479	/	3.743396	
5	1	17	64.7	/	/	4.730285	
6	1	17	88.7	/	/	5.904374	
7	3	17	53.7	1118	1870	7.356086	
8	1	17	90.6	/	/	7.971224	
9	2	17	60.1	1834	/	8.421835	
10	2	17	74.2	1835	/	10.029178	
11	2	17	90.7	1125	/	10.776799	
12	2	17	52.1	1527	/	11.825954	

Statistics 4 (ChirpCenter Frequency: 5279 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	19	58.5	1890	1967	0.071537	1
1	2	19	88.1	1890	/	2.392041	
2	1	19	85.6	/	/	3.470969	
3	1	19	81.5	/	/	4.380536	
4	1	19	98.2	/	/	5.30614	
5	2	19	56.9	1933	/	7.041673	
6	1	19	71	/	/	7.338572	
7	1	19	69.8	/	/	8.783745	
8	2	19	76.6	1927	/	10.623292	
9	1	19	94.1	/	/	11.641188	

Statistics 5(ChirpCenter Frequency: 5275 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	9	69	1632	/	0.717928	1
1	1	9	53.1	/	/	1.217715	
2	2	9	65.7	1737	/	2.577656	
3	1	9	97.6	/	/	2.9582	
4	2	9	70.6	1062	/	4.498858	
5	2	9	54.6	1846	/	4.742983	
6	2	9	59.4	1941	/	5.73758	
7	3	9	70.6	1019	1493	6.858077	
8	2	9	87.1	1631	/	7.877065	
9	2	9	83.8	1726	/	9.197718	
10	3	9	81.4	1696	1696	9.991383	
11	1	9	89.9	/	/	10.491321	
12	3	9	59.8	1727	1147	11.296208	

Statistics 6 (ChirpCenter Frequency: 5279 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	18	84.9	1136	/	0.181252	0
1	2	18	50.4	1813	/	1.135122	
2	1	18	58	/	/	1.297312	
3	2	18	97.3	1898	/	2.384089	
4	1	18	81.1	/	/	2.510314	
5	2	18	93.6	1456	/	3.28704	
6	1	18	51.8	/	/	3.843819	
7	2	18	94.1	1721	/	4.409023	
8	1	18	77.8	/	/	5.226081	
9	2	18	52.2	1432	/	5.547607	
10	2	18	93.5	1058	/	6.120894	
11	1	18	52.3	/	/	6.937126	
12	1	18	96.8	/	/	7.609021	
13	1	18	87.8	/	/	8.253667	
14	2	18	68.3	1312	/	8.841015	
15	2	18	73.3	1942	/	9.237381	
16	2	18	98.3	1657	/	10.079615	
17	2	18	98	1776	/	10.726146	
18	2	18	84.7	1757	/	11.139967	
19	3	18	90.2	1347	1316	11.49417	

Statistics 7(ChirpCenter Frequency: 5279 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	18	83.8	/	/	0.148077	
1	2	18	89.4	1600	/	0.745325	
2	1	18	75.3	/	/	1.988502	
3	2	18	53.1	1312	/	2.511163	
4	1	18	89.2	/	/	3.502226	
5	3	18	66.3	1784	1711	4.116292	
6	2	18	74.1	1325	/	4.280615	
7	2	18	87.9	1415	/	5.124188	
8	2	18	82.8	1760	/	6.159034	1
9	2	18	96.4	1070	/	6.630077	
10	2	18	53.4	1213	/	7.517959	
11	2	18	87.5	1302	/	8.261392	
12	2	18	69.1	1601	/	8.814809	
13	2	18	89.3	1851	/	9.694189	
14	2	18	71.9	1949	/	9.996474	
15	1	18	93.9	/	/	11.171376	
16	1	18	81.8	/	/	11.789955	

Statistics 8 (ChirpCenter Frequency: 5279 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	18	75.5	1549	/	0.338072	
1	2	18	50.8	1313	/	1.078731	
2	2	18	52.9	1813	/	1.541267	
3	2	18	87	1772	/	2.666801	
4	2	18	91.4	1777	/	3.196404	
5	2	18	51.2	1031	/	4.117942	
6	2	18	56.3	1011	/	4.457887	
7	2	18	72.7	1172	/	5.401442	
8	2	18	74.1	1708	/	5.731075	1
9	1	18	63.8	/	/	6.880512	
10	2	18	56.9	1584	/	7.510028	
11	2	18	93.7	1204	/	8.456351	
12	3	18	55.5	1534	1748	8.567957	
13	2	18	57.5	1012	/	9.876999	
14	3	18	59	1175	1403	9.898826	
15	2	18	55.8	1595	/	10.616396	
16	2	18	66.6	1087	/	11.669436	

Statistics 9 (ChirpCenter Frequency: 5277 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	14	89.1	1299	1023	1.106324	1
1	1	14	97.7	/	/	2.796452	
2	2	14	75.5	1964	/	3.024434	
3	2	14	50.4	1793	/	4.615411	
4	3	14	70.8	1087	1326	6.026397	
5	1	14	77.3	/	/	8.14466	
6	3	14	60.7	1644	1022	10.324612	
7	2	14	81.9	1345	/	11.123284	

Statistics 10 (ChirpCenter Frequency: 5277 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	14	96.5	1156	/	0.581675	1
1	2	14	99.4	1918	/	1.515019	
2	3	14	91.3	1342	1369	2.01478	
3	2	14	58.9	1080	/	3.313674	
4	1	14	74.9	/	/	3.708227	
5	2	14	94.6	1199	/	5.111247	
6	1	14	59.4	/	/	6.092126	
7	3	14	79.8	1756	1953	7.183206	
8	1	14	61.2	/	/	7.770085	
9	2	14	92.5	1038	/	8.546146	
10	1	14	70.9	/	/	9.930815	
11	3	14	83.8	1985	1101	10.837233	
12	3	14	77.6	1897	1222	11.258952	

Radar Type 5 Case3 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5286MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	7	70.3	/	/	0.039863	1
1	1	7	69.3	/	/	1.362887	
2	1	7	71	/	/	1.947179	
3	3	7	61.9	1880	1604	2.926717	
4	2	7	62	1095	/	3.333279	
5	2	7	89	1691	/	3.768449	
6	2	7	91.6	1725	/	4.57742	
7	3	7	75.5	1451	1872	5.510745	
8	1	7	53.1	/	/	6.656348	
9	3	7	84.1	1435	1669	6.819736	
10	2	7	85.8	1427	/	7.541904	
11	2	7	98.4	1797	/	8.788829	
12	2	7	90.4	1707	/	9.536188	
13	2	7	78.2	1383	/	10.321918	
14	2	7	59.5	1604	/	10.615728	
15	3	7	86.4	1385	1336	11.788459	

Statistics 2 (ChirpCenter Frequency: 5282 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	53.7	1882	/	0.305118	1
1	2	16	89.2	1607	/	0.919711	
2	3	16	56.3	1906	1353	2.213991	
3	2	16	76.1	1063	/	3.262117	
4	3	16	81	1893	1975	3.847352	
5	2	16	77.9	1905	/	4.726795	
6	2	16	90.7	1779	/	5.417715	
7	2	16	77	1662	/	6.234727	
8	2	16	91.1	1461	/	6.967007	
9	1	16	70.6	/	/	8.176476	
10	1	16	74.8	/	/	9.030034	
11	3	16	77.8	1295	1833	9.55136	
12	2	16	57.5	1844	/	10.512477	
13	1	16	71.8	/	/	11.785213	

Statistics 3 (ChirpCenter Frequency: 5283 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	13	87	1135	/	0.662448	1
1	3	13	58.2	1400	1389	1.559427	
2	2	13	69.5	1879	/	2.810611	
3	2	13	65.9	1645	/	4.647091	
4	2	13	81	1238	/	5.674214	
5	2	13	65.9	1861	/	6.456142	
6	3	13	63.2	1429	1527	8.002377	
7	2	13	81	1340	/	9.394139	
8	1	13	98.8	/	/	10.762461	
9	2	13	57.6	1540	/	11.786496	

Statistics 4 (ChirpCenter Frequency: 5285 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	8	50.6	1934	/	0.613559	1
1	2	8	99.9	1511	/	2.032789	
2	1	8	63.6	/	/	3.83819	
3	3	8	59.5	1401	1132	5.209164	
4	1	8	64.7	/	/	7.304467	
5	3	8	88.4	1519	1060	7.717798	
6	2	8	79.2	1533	/	9.053722	
7	3	8	63.1	1836	1006	11.318351	

Statistics 5(ChirpCenter Frequency: 5282 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	15	73.7	1107	/	0.459783	1
1	1	15	61.4	/	/	0.95879	
2	3	15	68.6	1372	1341	2.035955	
3	1	15	61.3	/	/	2.71881	
4	3	15	97.2	1867	1024	2.854813	
5	2	15	54.6	1430	/	3.974966	
6	2	15	84.7	1790	/	4.520204	
7	2	15	69.5	1053	/	5.263064	
8	2	15	72.7	1722	/	5.984449	
9	2	15	96.8	1758	/	6.773305	
10	2	15	93	1208	/	7.511091	
11	3	15	81.9	1763	1940	8.166674	
12	2	15	82.9	1184	/	8.678476	
13	1	15	96	/	/	9.683669	
14	2	15	74.2	1490	/	10.26938	
15	2	15	61.1	1420	/	11.044901	
16	2	15	99.2	1463	/	11.499801	

Statistics 6 (ChirpCenter Frequency: 5284 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	11	78.5	1074	1633	1.065814	1
1	1	11	97.8	/	/	1.474465	
2	2	11	59.1	1190	/	2.664293	
3	2	11	83.9	1839	/	4.11502	
4	2	11	63.6	1314	/	4.959442	
5	3	11	55.5	1103	1538	5.468864	
6	2	11	75.2	1901	/	6.733308	
7	2	11	76.6	1451	/	8.472551	
8	1	11	55.1	/	/	9.31582	
9	2	11	52.3	1864	/	10.706662	
10	1	11	83.9	/	/	11.718747	

Statistics 7(ChirpCenter Frequency: 5283 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	14	88	1008	/	0.641735	0
1	3	14	61.8	1845	1812	1.385532	
2	1	14	95.6	/	/	2.379242	
3	3	14	90	1705	1730	3.048907	
4	2	14	60.5	1572	/	4.611144	
5	2	14	56.3	1304	/	5.301174	
6	2	14	57.2	1696	/	6.579852	
7	3	14	57.2	1788	1939	7.141506	
8	2	14	86	1876	/	8.541511	
9	2	14	75.6	1192	/	9.106591	
10	2	14	64.5	1446	/	10.259088	
11	3	14	88.7	1004	1629	11.185294	

Statistics 8 (ChirpCenter Frequency: 5284 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	10	89.1	1354	1219	0.665233	1
1	2	10	60.3	1146	/	1.438878	
2	2	10	53	1092	/	2.392239	
3	1	10	96.5	/	/	3.007708	
4	2	10	65.3	1278	/	4.440831	
5	2	10	67.6	1913	/	5.517259	
6	1	10	88.3	/	/	6.10704	
7	2	10	88.8	1216	/	7.991544	
8	3	10	76.5	1739	1970	8.790354	
9	2	10	52.6	1172	/	9.466671	
10	2	10	78.9	1224	/	10.835205	
11	3	10	95.6	1020	1546	11.751751	

Statistics 9 (ChirpCenter Frequency: 5281 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	18	63.4	1680	/	0.47954	1
1	2	18	78.5	1517	/	1.438872	
2	3	18	96.2	1422	1108	3.821416	
3	2	18	96.1	1472	/	4.316504	
4	2	18	70.4	1364	/	6.042657	
5	2	18	57.9	1061	/	7.026557	
6	3	18	68.4	1893	1131	9.137971	
7	2	18	98.8	1019	/	10.110771	
8	2	18	68.8	1445	/	11.671304	

Statistics 10 (ChirpCenter Frequency: 5284 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	12	79.6	/	/	0.321302	1
1	3	12	59.9	1448	1946	2.059126	
2	3	12	71.3	1138	1428	3.076815	
3	2	12	57.8	1568	/	3.646202	
4	2	12	96	1367	/	5.437779	
5	1	12	96.8	/	/	6.232333	
6	3	12	94	1020	1126	7.237965	
7	2	12	89.3	1267	/	9.171647	
8	3	12	89.8	1534	1499	9.907393	
9	2	12	57.3	1497	/	10.951836	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (GHz)
1	5280	9	1	333	1	5318.0, 5699.0, 5708.0, 5557.0, 5441.0, 5519.0, 5564.0, 5697.0, 5625.0, 5403.0, 5633.0, 5596.0, 5490.0, 5432.0, 5443.0, 5550.0, 5434.0, 5264.0, 5718.0, 5624.0, 5347.0, 5308.0, 5301.0, 5661.0, 5360.0, 5382.0, 5512.0, 5651.0, 5470.0, 5311.0, 5262.0, 5599.0, 5611.0, 5660.0, 5553.0, 5666.0, 5315.0, 5352.0, 5598.0, 5452.0, 5665.0, 5364.0, 5630.0, 5504.0, 5631.0, 5636.0, 5700.0, 5539.0, 5628.0, 5694.0, 5442.0, 5307.0, 5642.0, 5458.0, 5461.0, 5348.0, 5551.0, 5394.0, 5277.0, 5498.0, 5427.0, 5353.0, 5588.0, 5721.0, 5255.0, 5477.0, 5695.0, 5517.0, 5593.0, 5481.0, 5297.0, 5696.0, 5389.0, 5283.0, 5378.0, 5285.0, 5522.0, 5486.0, 5365.0, 5672.0, 5469.0, 5556.0, 5709.0, 5451.0, 5689.0, 5309.0, 5344.0, 5559.0, 5680.0, 5465.0, 5491.0, 5558.0, 5618.0, 5313.0, 5331.0, 5716.0, 5288.0, 5656.0, 5253.0, 5398.0
2	5280	9	1	333	1	5600.0, 5513.0, 5436.0, 5382.0, 5305.0, 5511.0, 5336.0, 5279.0, 5713.0, 5438.0, 5439.0, 5337.0, 5660.0, 5379.0, 5563.0, 5508.0, 5475.0, 5338.0, 5273.0, 5267.0, 5263.0, 5689.0, 5388.0, 5668.0, 5424.0, 5633.0, 5553.0, 5378.0, 5373.0, 5703.0, 5577.0, 5429.0, 5500.0, 5457.0, 5572.0, 5663.0, 5359.0, 5526.0, 5286.0, 5455.0, 5349.0, 5302.0, 5617.0, 5483.0, 5543.0, 5477.0, 5612.0, 5466.0, 5300.0, 5265.0, 5702.0, 5618.0, 5571.0, 5491.0, 5334.0, 5519.0, 5628.0, 5576.0, 5639.0, 5549.0, 5479.0, 5515.0, 5311.0, 5486.0, 5662.0, 5285.0, 5597.0, 5409.0, 5346.0, 5362.0, 5418.0, 5465.0, 5394.0, 5410.0, 5527.0, 5348.0, 5645.0, 5419.0, 5440.0, 5306.0, 5722.0, 5415.0, 5274.0, 5480.0, 5317.0, 5390.0, 5634.0, 5499.0, 5343.0, 5620.0, 5561.0, 5269.0, 5287.0, 5559.0, 5644.0, 5270.0, 5610.0, 5298.0, 5609.0, 5621.0
3	5280	9	1	333	1	5407.0, 5327.0, 5582.0, 5400.0, 5401.0, 5485.0, 5589.0, 5704.0, 5363.0, 5630.0, 5381.0, 5387.0, 5337.0, 5283.0, 5541.0, 5611.0, 5529.0, 5374.0, 5577.0, 5639.0, 5508.0, 5530.0, 5711.0, 5348.0, 5637.0, 5346.0, 5657.0, 5650.0, 5714.0, 5461.0, 5322.0, 5665.0, 5491.0, 5543.0, 5708.0, 5336.0, 5354.0, 5682.0, 5466.0, 5581.0, 5599.0, 5427.0, 5524.0, 5521.0, 5344.0, 5380.0, 5525.0, 5312.0, 5328.0, 5310.0, 5367.0, 5679.0, 5428.0, 5292.0, 5595.0, 5469.0, 5537.0, 5338.0, 5317.0, 5471.0, 5539.0, 5684.0, 5531.0, 5458.0, 5510.0,

						5279.0, 5304.0, 5659.0, 5597.0, 5454.0, 5358.0, 5692.0, 5512.0, 5516.0, 5318.0, 5256.0, 5614.0, 5583.0, 5489.0, 5616.0, 5432.0, 5299.0, 5390.0, 5351.0, 5266.0, 5321.0, 5551.0, 5285.0, 5386.0, 5558.0, 5435.0, 5643.0, 5383.0, 5654.0, 5392.0, 5587.0, 5511.0, 5272.0, 5444.0, 5513.0
4	5280	9	1	333	1	5468.0, 5498.0, 5344.0, 5313.0, 5254.0, 5595.0, 5339.0, 5662.0, 5512.0, 5718.0, 5436.0, 5668.0, 5336.0, 5565.0, 5535.0, 5270.0, 5305.0, 5577.0, 5391.0, 5616.0, 5459.0, 5685.0, 5334.0, 5490.0, 5394.0, 5295.0, 5518.0, 5348.0, 5349.0, 5679.0, 5408.0, 5539.0, 5422.0, 5427.0, 5331.0, 5720.0, 5591.0, 5419.0, 5442.0, 5711.0, 5511.0, 5623.0, 5723.0, 5486.0, 5660.0, 5697.0, 5604.0, 5267.0, 5649.0, 5412.0, 5386.0, 5544.0, 5359.0, 5319.0, 5538.0, 5582.0, 5338.0, 5602.0, 5653.0, 5255.0, 5417.0, 5485.0, 5643.0, 5352.0, 5307.0, 5380.0, 5350.0, 5520.0, 5257.0, 5655.0, 5358.0, 5377.0, 5525.0, 5495.0, 5605.0, 5326.0, 5524.0, 5632.0, 5671.0, 5641.0, 5268.0, 5507.0, 5624.0, 5619.0, 5282.0, 5395.0, 5346.0, 5571.0, 5437.0, 5716.0, 5482.0, 5701.0, 5263.0, 5487.0, 5702.0, 5536.0, 5354.0, 5639.0, 5721.0, 5461.0
5	5280	9	1	333	1	5382.0, 5524.0, 5702.0, 5322.0, 5599.0, 5353.0, 5437.0, 5345.0, 5344.0, 5316.0, 5298.0, 5585.0, 5721.0, 5641.0, 5525.0, 5639.0, 5607.0, 5396.0, 5279.0, 5657.0, 5356.0, 5653.0, 5490.0, 5615.0, 5323.0, 5412.0, 5495.0, 5319.0, 5634.0, 5518.0, 5515.0, 5703.0, 5366.0, 5291.0, 5292.0, 5404.0, 5558.0, 5700.0, 5707.0, 5338.0, 5281.0, 5305.0, 5407.0, 5592.0, 5647.0, 5419.0, 5723.0, 5675.0, 5289.0, 5310.0, 5608.0, 5257.0, 5475.0, 5374.0, 5681.0, 5674.0, 5351.0, 5548.0, 5577.0, 5552.0, 5408.0, 5265.0, 5712.0, 5352.0, 5452.0, 5365.0, 5486.0, 5709.0, 5636.0, 5612.0, 5470.0, 5683.0, 5460.0, 5271.0, 5529.0, 5500.0, 5654.0, 5711.0, 5274.0, 5465.0, 5450.0, 5645.0, 5664.0, 5504.0, 5339.0, 5557.0, 5706.0, 5433.0, 5545.0, 5633.0, 5514.0, 5326.0, 5255.0, 5696.0, 5429.0, 5363.0, 5447.0, 5369.0, 5487.0, 5474.0
6	5280	9	1	333	1	5708.0, 5292.0, 5252.0, 5351.0, 5310.0, 5459.0, 5325.0, 5498.0, 5587.0, 5336.0, 5487.0, 5263.0, 5602.0, 5520.0, 5448.0, 5332.0, 5650.0, 5578.0, 5315.0, 5679.0, 5672.0, 5451.0, 5430.0, 5511.0, 5364.0, 5561.0, 5582.0, 5376.0, 5686.0, 5438.0, 5256.0, 5659.0, 5594.0, 5637.0, 5412.0, 5719.0, 5427.0, 5450.0, 5537.0, 5295.0, 5697.0, 5475.0, 5580.0, 5507.0, 5277.0, 5447.0, 5572.0, 5282.0, 5399.0, 5270.0, 5442.0, 5504.0, 5616.0, 5481.0, 5545.0, 5458.0, 5380.0, 5575.0, 5698.0, 5359.0, 5369.0, 5649.0, 5478.0, 5593.0, 5513.0,

						5658.0, 5648.0, 5262.0, 5496.0, 5713.0, 5373.0, 5280.0, 5283.0, 5327.0, 5288.0, 5330.0, 5409.0, 5596.0, 5643.0, 5291.0, 5470.0, 5527.0, 5363.0, 5588.0, 5673.0, 5547.0, 5711.0, 5387.0, 5331.0, 5663.0, 5606.0, 5396.0, 5706.0, 5269.0, 5524.0, 5573.0, 5558.0, 5423.0, 5530.0, 5707.0
7	5280	9	1	333	1	5401.0, 5561.0, 5723.0, 5538.0, 5303.0, 5517.0, 5509.0, 5601.0, 5345.0, 5709.0, 5301.0, 5602.0, 5363.0, 5317.0, 5631.0, 5620.0, 5339.0, 5610.0, 5533.0, 5551.0, 5470.0, 5718.0, 5348.0, 5260.0, 5511.0, 5645.0, 5587.0, 5291.0, 5664.0, 5418.0, 5641.0, 5280.0, 5598.0, 5595.0, 5266.0, 5703.0, 5596.0, 5374.0, 5420.0, 5457.0, 5313.0, 5546.0, 5557.0, 5264.0, 5371.0, 5659.0, 5253.0, 5349.0, 5422.0, 5644.0, 5623.0, 5324.0, 5300.0, 5365.0, 5504.0, 5690.0, 5691.0, 5594.0, 5706.0, 5647.0, 5616.0, 5626.0, 5585.0, 5719.0, 5588.0, 5497.0, 5698.0, 5297.0, 5406.0, 5711.0, 5423.0, 5553.0, 5501.0, 5583.0, 5640.0, 5545.0, 5263.0, 5426.0, 5704.0, 5399.0, 5582.0, 5473.0, 5488.0, 5257.0, 5467.0, 5310.0, 5552.0, 5615.0, 5286.0, 5469.0, 5456.0, 5276.0, 5357.0, 5414.0, 5639.0, 5389.0, 5480.0, 5539.0, 5430.0, 5571.0
8	5280	9	1	333	1	5377.0, 5713.0, 5437.0, 5542.0, 5397.0, 5548.0, 5484.0, 5482.0, 5347.0, 5694.0, 5291.0, 5715.0, 5652.0, 5465.0, 5441.0, 5267.0, 5662.0, 5413.0, 5537.0, 5412.0, 5700.0, 5346.0, 5557.0, 5528.0, 5334.0, 5696.0, 5342.0, 5278.0, 5566.0, 5637.0, 5559.0, 5510.0, 5687.0, 5614.0, 5428.0, 5310.0, 5264.0, 5629.0, 5698.0, 5613.0, 5401.0, 5544.0, 5580.0, 5485.0, 5541.0, 5708.0, 5719.0, 5512.0, 5311.0, 5253.0, 5319.0, 5364.0, 5707.0, 5304.0, 5349.0, 5472.0, 5722.0, 5294.0, 5344.0, 5695.0, 5669.0, 5706.0, 5565.0, 5605.0, 5724.0, 5280.0, 5584.0, 5416.0, 5464.0, 5571.0, 5322.0, 5313.0, 5330.0, 5526.0, 5266.0, 5328.0, 5365.0, 5434.0, 5399.0, 5601.0, 5442.0, 5514.0, 5348.0, 5676.0, 5546.0, 5425.0, 5673.0, 5338.0, 5327.0, 5692.0, 5270.0, 5498.0, 5540.0, 5660.0, 5717.0, 5625.0, 5520.0, 5664.0, 5321.0, 5420.0
9	5280	9	1	333	1	5365.0, 5481.0, 5332.0, 5340.0, 5349.0, 5635.0, 5555.0, 5253.0, 5466.0, 5316.0, 5456.0, 5658.0, 5339.0, 5707.0, 5255.0, 5327.0, 5351.0, 5366.0, 5263.0, 5675.0, 5600.0, 5559.0, 5386.0, 5696.0, 5493.0, 5583.0, 5703.0, 5664.0, 5713.0, 5354.0, 5624.0, 5706.0, 5551.0, 5572.0, 5536.0, 5716.0, 5568.0, 5711.0, 5602.0, 5337.0, 5550.0, 5620.0, 5257.0, 5494.0, 5617.0, 5293.0, 5598.0, 5699.0, 5344.0, 5467.0, 5272.0, 5521.0, 5288.0, 5374.0, 5401.0, 5286.0, 5605.0, 5370.0, 5277.0, 5655.0, 5363.0, 5652.0, 5329.0, 5558.0, 5432.0,

						5492.0, 5607.0, 5372.0, 5468.0, 5282.0, 5591.0, 5560.0, 5692.0, 5575.0, 5676.0, 5424.0, 5328.0, 5477.0, 5379.0, 5714.0, 5275.0, 5453.0, 5674.0, 5400.0, 5484.0, 5511.0, 5313.0, 5461.0, 5317.0, 5556.0, 5579.0, 5333.0, 5422.0, 5721.0, 5411.0, 5405.0, 5376.0, 5529.0, 5460.0, 5700.0
10	5280	9	1	333		
11	5280	9	1	333	1	5654.0, 5717.0, 5273.0, 5480.0, 5361.0, 5424.0, 5336.0, 5660.0, 5503.0, 5368.0, 5617.0, 5610.0, 5293.0, 5435.0, 5700.0, 5492.0, 5471.0, 5534.0, 5286.0, 5364.0, 5715.0, 5290.0, 5632.0, 5659.0, 5552.0, 5340.0, 5645.0, 5386.0, 5281.0, 5693.0, 5490.0, 5688.0, 5540.0, 5251.0, 5708.0, 5272.0, 5315.0, 5512.0, 5582.0, 5718.0, 5295.0, 5546.0, 5460.0, 5347.0, 5352.0, 5400.0, 5477.0, 5475.0, 5531.0, 5373.0, 5320.0, 5257.0, 5459.0, 5317.0, 5661.0, 5624.0, 5510.0, 5498.0, 5287.0, 5366.0, 5710.0, 5300.0, 5401.0, 5324.0, 5562.0, 5564.0, 5655.0, 5275.0, 5310.0, 5394.0, 5539.0, 5526.0, 5474.0, 5561.0, 5485.0, 5568.0, 5532.0, 5439.0, 5426.0, 5611.0, 5493.0, 5464.0, 5702.0, 5455.0, 5583.0, 5612.0, 5707.0, 5358.0, 5259.0, 5269.0, 5538.0, 5354.0, 5605.0, 5653.0, 5685.0, 5550.0, 5298.0, 5342.0, 5709.0, 5402.0
12	5280	9	1	333	1	5645.0, 5406.0, 5499.0, 5711.0, 5299.0, 5313.0, 5364.0, 5485.0, 5252.0, 5684.0, 5530.0, 5642.0, 5438.0, 5616.0, 5637.0, 5515.0, 5457.0, 5677.0, 5667.0, 5393.0, 5681.0, 5389.0, 5418.0, 5539.0, 5607.0, 5408.0, 5361.0, 5693.0, 5484.0, 5586.0, 5468.0, 5606.0, 5652.0, 5579.0, 5678.0, 5360.0, 5531.0, 5301.0, 5518.0, 5482.0, 5578.0, 5412.0, 5432.0, 5523.0, 5517.0, 5618.0, 5382.0, 5651.0, 5563.0, 5608.0, 5512.0, 5420.0, 5513.0, 5502.0, 5533.0, 5540.0, 5421.0, 5661.0, 5431.0, 5478.0, 5683.0, 5511.0, 5572.0, 5331.0, 5322.0, 5335.0, 5414.0, 5314.0, 5659.0, 5407.0, 5658.0, 5548.0, 5295.0, 5383.0, 5662.0, 5304.0, 5666.0, 5594.0, 5640.0, 5309.0, 5703.0, 5289.0, 5580.0, 5318.0, 5641.0, 5490.0, 5527.0, 5303.0, 5281.0, 5277.0, 5721.0, 5349.0, 5282.0, 5649.0, 5541.0, 5433.0, 5657.0, 5316.0, 5251.0, 5718.0
13	5280	9	1	333	1	5455.0, 5327.0, 5493.0, 5682.0, 5435.0, 5348.0, 5286.0, 5528.0, 5482.0, 5680.0, 5336.0, 5419.0, 5646.0, 5577.0, 5619.0, 5408.0, 5466.0, 5462.0, 5592.0, 5473.0, 5480.0, 5383.0, 5375.0, 5379.0, 5254.0, 5652.0, 5445.0, 5627.0, 5536.0, 5565.0, 5586.0, 5278.0, 5264.0, 5564.0, 5687.0, 5342.0, 5341.0, 5591.0, 5532.0, 5313.0, 5524.0, 5684.0, 5307.0, 5446.0, 5451.0, 5655.0, 5681.0, 5590.0, 5613.0, 5321.0, 5444.0, 5290.0, 5708.0, 5319.0, 5526.0,

						5503.0, 5283.0, 5308.0, 5530.0, 5391.0, 5409.0, 5660.0, 5548.0, 5632.0, 5370.0, 5595.0, 5502.0, 5478.0, 5376.0, 5573.0, 5467.0, 5251.0, 5560.0, 5531.0, 5700.0, 5636.0, 5517.0, 5266.0, 5420.0, 5360.0, 5440.0, 5417.0, 5344.0, 5431.0, 5415.0, 5303.0, 5484.0, 5396.0, 5255.0, 5297.0, 5410.0, 5474.0, 5424.0, 5624.0, 5257.0, 5399.0, 5459.0, 5631.0, 5697.0, 5456.0
14	5280	9	1	333	1	5453.0, 5408.0, 5339.0, 5610.0, 5387.0, 5568.0, 5581.0, 5598.0, 5577.0, 5383.0, 5255.0, 5452.0, 5476.0, 5345.0, 5353.0, 5636.0, 5316.0, 5510.0, 5311.0, 5707.0, 5425.0, 5409.0, 5254.0, 5410.0, 5720.0, 5517.0, 5721.0, 5633.0, 5612.0, 5639.0, 5416.0, 5513.0, 5443.0, 5317.0, 5512.0, 5715.0, 5706.0, 5515.0, 5427.0, 5498.0, 5303.0, 5662.0, 5251.0, 5722.0, 5368.0, 5388.0, 5256.0, 5395.0, 5489.0, 5477.0, 5539.0, 5384.0, 5691.0, 5530.0, 5538.0, 5374.0, 5616.0, 5373.0, 5412.0, 5690.0, 5548.0, 5475.0, 5473.0, 5528.0, 5309.0, 5497.0, 5424.0, 5689.0, 5265.0, 5617.0, 5327.0, 5647.0, 5503.0, 5536.0, 5405.0, 5305.0, 5605.0, 5393.0, 5462.0, 5444.0, 5655.0, 5420.0, 5564.0, 5367.0, 5511.0, 5550.0, 5329.0, 5565.0, 5258.0, 5618.0, 5320.0, 5676.0, 5697.0, 5549.0, 5624.0, 5334.0, 5594.0, 5467.0, 5682.0, 5282.0
15	5280	9	1	333	1	5605.0, 5625.0, 5651.0, 5686.0, 5514.0, 5681.0, 5567.0, 5328.0, 5475.0, 5412.0, 5464.0, 5300.0, 5482.0, 5531.0, 5668.0, 5600.0, 5469.0, 5618.0, 5395.0, 5416.0, 5397.0, 5480.0, 5540.0, 5508.0, 5491.0, 5595.0, 5472.0, 5569.0, 5446.0, 5274.0, 5341.0, 5503.0, 5598.0, 5319.0, 5406.0, 5454.0, 5496.0, 5536.0, 5467.0, 5317.0, 5420.0, 5566.0, 5309.0, 5414.0, 5364.0, 5389.0, 5349.0, 5375.0, 5526.0, 5290.0, 5297.0, 5340.0, 5610.0, 5272.0, 5269.0, 5262.0, 5362.0, 5577.0, 5428.0, 5326.0, 5565.0, 5296.0, 5292.0, 5270.0, 5675.0, 5432.0, 5556.0, 5692.0, 5593.0, 5533.0, 5715.0, 5617.0, 5436.0, 5662.0, 5324.0, 5676.0, 5695.0, 5437.0, 5258.0, 5499.0, 5583.0, 5348.0, 5353.0, 5608.0, 5357.0, 5596.0, 5697.0, 5305.0, 5633.0, 5685.0, 5535.0, 5434.0, 5560.0, 5303.0, 5408.0, 5589.0, 5492.0, 5424.0, 5281.0, 5602.0
16	5280	9	1	333	1	5566.0, 5391.0, 5503.0, 5619.0, 5512.0, 5502.0, 5618.0, 5444.0, 5292.0, 5610.0, 5461.0, 5595.0, 5594.0, 5286.0, 5402.0, 5293.0, 5333.0, 5480.0, 5352.0, 5453.0, 5487.0, 5671.0, 5520.0, 5681.0, 5497.0, 5319.0, 5330.0, 5507.0, 5590.0, 5349.0, 5601.0, 5475.0, 5346.0, 5398.0, 5275.0, 5412.0, 5534.0, 5666.0, 5253.0, 5445.0, 5392.0, 5294.0, 5282.0, 5569.0, 5627.0, 5357.0, 5596.0, 5257.0, 5422.0, 5551.0, 5673.0, 5423.0, 5547.0, 5263.0, 5301.0,

						5409.0, 5455.0, 5270.0, 5437.0, 5472.0, 5440.0, 5491.0, 5347.0, 5424.0, 5598.0, 5694.0, 5510.0, 5341.0, 5519.0, 5300.0, 5644.0, 5262.0, 5429.0, 5665.0, 5714.0, 5588.0, 5382.0, 5583.0, 5624.0, 5474.0, 5577.0, 5703.0, 5670.0, 5667.0, 5647.0, 5664.0, 5295.0, 5662.0, 5379.0, 5573.0, 5717.0, 5465.0, 5466.0, 5633.0, 5396.0, 5442.0, 5516.0, 5658.0, 5367.0, 5447.0
17	5280	9	1	333	1	5319.0, 5600.0, 5306.0, 5638.0, 5567.0, 5377.0, 5489.0, 5478.0, 5698.0, 5598.0, 5662.0, 5448.0, 5543.0, 5369.0, 5672.0, 5317.0, 5641.0, 5681.0, 5274.0, 5436.0, 5587.0, 5713.0, 5301.0, 5339.0, 5261.0, 5254.0, 5302.0, 5503.0, 5611.0, 5663.0, 5454.0, 5425.0, 5256.0, 5614.0, 5309.0, 5599.0, 5533.0, 5523.0, 5613.0, 5285.0, 5337.0, 5559.0, 5572.0, 5624.0, 5393.0, 5691.0, 5643.0, 5444.0, 5555.0, 5717.0, 5293.0, 5480.0, 5604.0, 5558.0, 5637.0, 5346.0, 5310.0, 5649.0, 5434.0, 5375.0, 5675.0, 5622.0, 5706.0, 5708.0, 5695.0, 5612.0, 5626.0, 5273.0, 5323.0, 5521.0, 5518.0, 5589.0, 5423.0, 5531.0, 5595.0, 5283.0, 5690.0, 5400.0, 5661.0, 5342.0, 5289.0, 5491.0, 5370.0, 5300.0, 5367.0, 5511.0, 5536.0, 5499.0, 5575.0, 5562.0, 5253.0, 5353.0, 5560.0, 5284.0, 5262.0, 5415.0, 5607.0, 5451.0, 5542.0, 5387.0
18	5280	9	1	333	1	5442.0, 5698.0, 5271.0, 5475.0, 5709.0, 5526.0, 5432.0, 5708.0, 5592.0, 5621.0, 5638.0, 5477.0, 5258.0, 5353.0, 5686.0, 5613.0, 5674.0, 5430.0, 5304.0, 5683.0, 5505.0, 5620.0, 5309.0, 5400.0, 5291.0, 5474.0, 5634.0, 5560.0, 5523.0, 5479.0, 5398.0, 5280.0, 5367.0, 5551.0, 5601.0, 5365.0, 5382.0, 5316.0, 5498.0, 5313.0, 5255.0, 5464.0, 5332.0, 5329.0, 5573.0, 5673.0, 5640.0, 5403.0, 5597.0, 5427.0, 5672.0, 5286.0, 5583.0, 5276.0, 5390.0, 5283.0, 5270.0, 5429.0, 5406.0, 5576.0, 5265.0, 5580.0, 5457.0, 5596.0, 5616.0, 5590.0, 5515.0, 5315.0, 5461.0, 5323.0, 5321.0, 5401.0, 5520.0, 5285.0, 5710.0, 5557.0, 5533.0, 5654.0, 5257.0, 5342.0, 5439.0, 5411.0, 5494.0, 5445.0, 5711.0, 5626.0, 5689.0, 5358.0, 5296.0, 5519.0, 5637.0, 5636.0, 5633.0, 5661.0, 5656.0, 5642.0, 5345.0, 5263.0, 5610.0, 5322.0
19	5280	9	1	333	1	5668.0, 5640.0, 5656.0, 5540.0, 5379.0, 5474.0, 5324.0, 5719.0, 5472.0, 5364.0, 5415.0, 5343.0, 5537.0, 5557.0, 5584.0, 5575.0, 5468.0, 5531.0, 5578.0, 5700.0, 5714.0, 5438.0, 5476.0, 5425.0, 5410.0, 5530.0, 5423.0, 5355.0, 5443.0, 5309.0, 5295.0, 5460.0, 5567.0, 5442.0, 5419.0, 5504.0, 5344.0, 5280.0, 5604.0, 5257.0, 5603.0, 5341.0, 5310.0, 5465.0, 5306.0, 5477.0, 5564.0, 5463.0, 5670.0, 5705.0, 5458.0, 5566.0, 5376.0, 5568.0, 5522.0,

						5308.0, 5430.0, 5669.0, 5639.0, 5357.0, 5422.0, 5688.0, 5363.0, 5459.0, 5582.0, 5285.0, 5333.0, 5386.0, 5251.0, 5533.0, 5435.0, 5679.0, 5275.0, 5267.0, 5380.0, 5450.0, 5302.0, 5413.0, 5414.0, 5543.0, 5446.0, 5493.0, 5388.0, 5499.0, 5551.0, 5663.0, 5307.0, 5591.0, 5371.0, 5321.0, 5613.0, 5562.0, 5643.0, 5542.0, 5332.0, 5647.0, 5365.0, 5662.0, 5602.0, 5634.0
20	5280	9	1	333	1	5556.0, 5437.0, 5475.0, 5586.0, 5496.0, 5686.0, 5536.0, 5438.0, 5447.0, 5381.0, 5396.0, 5513.0, 5623.0, 5629.0, 5622.0, 5369.0, 5420.0, 5685.0, 5343.0, 5691.0, 5340.0, 5352.0, 5564.0, 5296.0, 5291.0, 5614.0, 5337.0, 5505.0, 5306.0, 5521.0, 5553.0, 5631.0, 5652.0, 5495.0, 5625.0, 5258.0, 5255.0, 5675.0, 5383.0, 5451.0, 5543.0, 5619.0, 5390.0, 5653.0, 5294.0, 5641.0, 5571.0, 5676.0, 5471.0, 5278.0, 5532.0, 5637.0, 5251.0, 5562.0, 5584.0, 5271.0, 5449.0, 5658.0, 5387.0, 5316.0, 5478.0, 5598.0, 5548.0, 5434.0, 5293.0, 5583.0, 5334.0, 5301.0, 5338.0, 5365.0, 5694.0, 5416.0, 5555.0, 5630.0, 5460.0, 5656.0, 5597.0, 5546.0, 5540.0, 5453.0, 5578.0, 5596.0, 5710.0, 5585.0, 5561.0, 5427.0, 5405.0, 5313.0, 5442.0, 5272.0, 5431.0, 5253.0, 5417.0, 5406.0, 5682.0, 5250.0, 5698.0, 5274.0, 5298.0, 5646.0
21	5280	9	1	333	1	5655.0, 5403.0, 5415.0, 5621.0, 5387.0, 5501.0, 5557.0, 5463.0, 5376.0, 5616.0, 5438.0, 5325.0, 5558.0, 5606.0, 5633.0, 5495.0, 5532.0, 5487.0, 5520.0, 5706.0, 5372.0, 5640.0, 5289.0, 5440.0, 5707.0, 5519.0, 5645.0, 5627.0, 5323.0, 5255.0, 5388.0, 5285.0, 5548.0, 5694.0, 5342.0, 5426.0, 5688.0, 5643.0, 5533.0, 5358.0, 5310.0, 5365.0, 5433.0, 5449.0, 5689.0, 5664.0, 5512.0, 5624.0, 5488.0, 5331.0, 5719.0, 5333.0, 5578.0, 5468.0, 5615.0, 5496.0, 5434.0, 5667.0, 5330.0, 5366.0, 5452.0, 5446.0, 5711.0, 5659.0, 5263.0, 5550.0, 5668.0, 5476.0, 5324.0, 5540.0, 5639.0, 5308.0, 5290.0, 5370.0, 5551.0, 5599.0, 5586.0, 5474.0, 5497.0, 5311.0, 5609.0, 5467.0, 5277.0, 5479.0, 5424.0, 5669.0, 5261.0, 5541.0, 5284.0, 5585.0, 5587.0, 5410.0, 5389.0, 5618.0, 5348.0, 5716.0, 5600.0, 5685.0, 5575.0, 5377.0
22	5280	9	1	333	1	5425.0, 5267.0, 5719.0, 5407.0, 5312.0, 5648.0, 5409.0, 5479.0, 5469.0, 5387.0, 5375.0, 5705.0, 5297.0, 5608.0, 5640.0, 5532.0, 5562.0, 5333.0, 5378.0, 5687.0, 5251.0, 5629.0, 5714.0, 5662.0, 5440.0, 5472.0, 5403.0, 5301.0, 5642.0, 5630.0, 5618.0, 5323.0, 5535.0, 5394.0, 5550.0, 5555.0, 5349.0, 5553.0, 5613.0, 5410.0, 5271.0, 5456.0, 5584.0, 5591.0, 5609.0, 5459.0, 5491.0, 5434.0, 5672.0, 5639.0, 5474.0, 5399.0, 5616.0, 5722.0, 5406.0,

						5528.0, 5315.0, 5307.0, 5624.0, 5688.0, 5448.0, 5382.0, 5579.0, 5654.0, 5545.0, 5603.0, 5511.0, 5486.0, 5353.0, 5546.0, 5317.0, 5661.0, 5319.0, 5359.0, 5283.0, 5453.0, 5576.0, 5385.0, 5605.0, 5554.0, 5430.0, 5290.0, 5643.0, 5276.0, 5366.0, 5373.0, 5717.0, 5497.0, 5314.0, 5374.0, 5570.0, 5697.0, 5649.0, 5677.0, 5386.0, 5647.0, 5464.0, 5666.0, 5597.0, 5485.0
23	5280	9	1	333	1	5583.0, 5439.0, 5495.0, 5315.0, 5600.0, 5388.0, 5667.0, 5430.0, 5716.0, 5639.0, 5270.0, 5702.0, 5444.0, 5453.0, 5686.0, 5499.0, 5535.0, 5671.0, 5410.0, 5559.0, 5376.0, 5562.0, 5553.0, 5308.0, 5405.0, 5287.0, 5280.0, 5403.0, 5368.0, 5655.0, 5538.0, 5345.0, 5369.0, 5276.0, 5669.0, 5421.0, 5690.0, 5274.0, 5574.0, 5681.0, 5668.0, 5418.0, 5534.0, 5691.0, 5350.0, 5697.0, 5407.0, 5511.0, 5541.0, 5520.0, 5347.0, 5323.0, 5564.0, 5496.0, 5266.0, 5715.0, 5385.0, 5450.0, 5432.0, 5338.0, 5322.0, 5677.0, 5331.0, 5683.0, 5288.0, 5710.0, 5458.0, 5637.0, 5299.0, 5512.0, 5711.0, 5635.0, 5400.0, 5318.0, 5633.0, 5537.0, 5452.0, 5261.0, 5640.0, 5592.0, 5389.0, 5478.0, 5680.0, 5502.0, 5480.0, 5542.0, 5626.0, 5507.0, 5706.0, 5454.0, 5416.0, 5333.0, 5377.0, 5396.0, 5302.0, 5642.0, 5692.0, 5390.0, 5481.0, 5406.0
24	5280	9	1	333	1	5575.0, 5336.0, 5468.0, 5357.0, 5527.0, 5551.0, 5638.0, 5610.0, 5418.0, 5471.0, 5539.0, 5291.0, 5617.0, 5595.0, 5272.0, 5385.0, 5679.0, 5669.0, 5332.0, 5492.0, 5324.0, 5268.0, 5413.0, 5320.0, 5674.0, 5371.0, 5689.0, 5637.0, 5307.0, 5700.0, 5262.0, 5377.0, 5284.0, 5435.0, 5560.0, 5473.0, 5440.0, 5472.0, 5421.0, 5615.0, 5542.0, 5666.0, 5279.0, 5364.0, 5505.0, 5445.0, 5603.0, 5285.0, 5529.0, 5582.0, 5590.0, 5328.0, 5569.0, 5634.0, 5694.0, 5350.0, 5277.0, 5312.0, 5451.0, 5478.0, 5429.0, 5466.0, 5518.0, 5290.0, 5303.0, 5482.0, 5596.0, 5305.0, 5348.0, 5399.0, 5414.0, 5339.0, 5517.0, 5388.0, 5487.0, 5298.0, 5616.0, 5335.0, 5428.0, 5353.0, 5684.0, 5322.0, 5537.0, 5465.0, 5459.0, 5416.0, 5543.0, 5663.0, 5411.0, 5587.0, 5461.0, 5297.0, 5409.0, 5687.0, 5479.0, 5392.0, 5607.0, 5406.0, 5423.0, 5718.0
25	5280	9	1	333	1	5255.0, 5705.0, 5611.0, 5385.0, 5476.0, 5484.0, 5292.0, 5499.0, 5586.0, 5454.0, 5719.0, 5267.0, 5617.0, 5522.0, 5349.0, 5715.0, 5389.0, 5301.0, 5380.0, 5429.0, 5599.0, 5328.0, 5456.0, 5374.0, 5373.0, 5354.0, 5450.0, 5299.0, 5492.0, 5424.0, 5264.0, 5473.0, 5702.0, 5287.0, 5303.0, 5553.0, 5280.0, 5479.0, 5516.0, 5510.0, 5517.0, 5632.0, 5403.0, 5339.0, 5606.0, 5317.0, 5626.0, 5355.0, 5546.0, 5634.0, 5681.0, 5442.0, 5565.0, 5262.0, 5635.0,

						5434.0, 5381.0, 5708.0, 5418.0, 5495.0, 5582.0, 5580.0, 5569.0, 5688.0, 5674.0, 5533.0, 5682.0, 5564.0, 5471.0, 5654.0, 5457.0, 5279.0, 5293.0, 5309.0, 5359.0, 5504.0, 5559.0, 5417.0, 5669.0, 5589.0, 5555.0, 5584.0, 5612.0, 5345.0, 5268.0, 5270.0, 5257.0, 5318.0, 5722.0, 5286.0, 5358.0, 5310.0, 5296.0, 5398.0, 5438.0, 5646.0, 5657.0, 5460.0, 5269.0, 5291.0
26	5280	9	1	333	1	5610.0, 5596.0, 5601.0, 5384.0, 5628.0, 5352.0, 5616.0, 5450.0, 5540.0, 5479.0, 5371.0, 5621.0, 5602.0, 5468.0, 5538.0, 5395.0, 5676.0, 5429.0, 5664.0, 5457.0, 5695.0, 5563.0, 5687.0, 5600.0, 5570.0, 5274.0, 5378.0, 5365.0, 5428.0, 5426.0, 5307.0, 5720.0, 5475.0, 5583.0, 5420.0, 5368.0, 5402.0, 5437.0, 5471.0, 5584.0, 5677.0, 5629.0, 5456.0, 5645.0, 5573.0, 5670.0, 5272.0, 5595.0, 5432.0, 5385.0, 5330.0, 5271.0, 5578.0, 5696.0, 5270.0, 5343.0, 5580.0, 5304.0, 5472.0, 5692.0, 5517.0, 5635.0, 5582.0, 5445.0, 5717.0, 5487.0, 5512.0, 5623.0, 5279.0, 5561.0, 5495.0, 5598.0, 5392.0, 5467.0, 5410.0, 5660.0, 5389.0, 5492.0, 5709.0, 5483.0, 5293.0, 5287.0, 5252.0, 5359.0, 5341.0, 5712.0, 5444.0, 5303.0, 5559.0, 5656.0, 5289.0, 5340.0, 5382.0, 5500.0, 5506.0, 5262.0, 5498.0, 5421.0, 5599.0, 5625.0
27	5280	9	1	333	1	5570.0, 5544.0, 5547.0, 5487.0, 5594.0, 5587.0, 5579.0, 5644.0, 5601.0, 5721.0, 5308.0, 5629.0, 5399.0, 5519.0, 5610.0, 5654.0, 5455.0, 5326.0, 5475.0, 5620.0, 5416.0, 5307.0, 5421.0, 5569.0, 5290.0, 5459.0, 5705.0, 5527.0, 5492.0, 5383.0, 5671.0, 5447.0, 5454.0, 5678.0, 5609.0, 5513.0, 5345.0, 5667.0, 5605.0, 5394.0, 5264.0, 5666.0, 5593.0, 5255.0, 5611.0, 5278.0, 5484.0, 5340.0, 5704.0, 5687.0, 5423.0, 5422.0, 5435.0, 5518.0, 5444.0, 5480.0, 5712.0, 5436.0, 5373.0, 5641.0, 5313.0, 5694.0, 5371.0, 5607.0, 5622.0, 5289.0, 5472.0, 5488.0, 5452.0, 5463.0, 5626.0, 5572.0, 5555.0, 5328.0, 5567.0, 5558.0, 5658.0, 5288.0, 5282.0, 5534.0, 5268.0, 5339.0, 5374.0, 5596.0, 5613.0, 5575.0, 5322.0, 5568.0, 5566.0, 5325.0, 5523.0, 5665.0, 5414.0, 5440.0, 5499.0, 5415.0, 5696.0, 5528.0, 5304.0, 5253.0
28	5280	9	1	333	1	5400.0, 5293.0, 5403.0, 5292.0, 5460.0, 5382.0, 5266.0, 5383.0, 5636.0, 5618.0, 5674.0, 5451.0, 5707.0, 5704.0, 5329.0, 5431.0, 5701.0, 5510.0, 5617.0, 5463.0, 5612.0, 5264.0, 5381.0, 5303.0, 5279.0, 5677.0, 5521.0, 5336.0, 5668.0, 5607.0, 5369.0, 5565.0, 5721.0, 5320.0, 5717.0, 5455.0, 5401.0, 5436.0, 5275.0, 5524.0, 5360.0, 5722.0, 5512.0, 5407.0, 5629.0, 5440.0, 5276.0, 5615.0, 5488.0, 5718.0, 5446.0, 5368.0, 5570.0, 5656.0, 5624.0,

						5533.0, 5422.0, 5467.0, 5258.0, 5414.0, 5346.0, 5518.0, 5333.0, 5259.0, 5310.0, 5356.0, 5663.0, 5655.0, 5503.0, 5645.0, 5396.0, 5705.0, 5302.0, 5596.0, 5454.0, 5413.0, 5522.0, 5556.0, 5605.0, 5376.0, 5297.0, 5576.0, 5405.0, 5669.0, 5586.0, 5326.0, 5487.0, 5499.0, 5461.0, 5689.0, 5296.0, 5544.0, 5300.0, 5601.0, 5404.0, 5464.0, 5420.0, 5491.0, 5337.0, 5354.0
29	5280	9	1	333	1	5604.0, 5275.0, 5722.0, 5588.0, 5545.0, 5309.0, 5525.0, 5254.0, 5715.0, 5509.0, 5417.0, 5304.0, 5418.0, 5459.0, 5713.0, 5553.0, 5544.0, 5449.0, 5666.0, 5641.0, 5271.0, 5615.0, 5321.0, 5251.0, 5606.0, 5297.0, 5616.0, 5486.0, 5347.0, 5536.0, 5287.0, 5529.0, 5691.0, 5385.0, 5695.0, 5425.0, 5701.0, 5531.0, 5689.0, 5362.0, 5337.0, 5475.0, 5488.0, 5716.0, 5627.0, 5630.0, 5421.0, 5281.0, 5548.0, 5270.0, 5445.0, 5710.0, 5252.0, 5634.0, 5595.0, 5452.0, 5714.0, 5522.0, 5583.0, 5539.0, 5609.0, 5480.0, 5508.0, 5538.0, 5416.0, 5497.0, 5342.0, 5294.0, 5454.0, 5307.0, 5667.0, 5650.0, 5692.0, 5516.0, 5540.0, 5429.0, 5430.0, 5392.0, 5581.0, 5331.0, 5501.0, 5603.0, 5638.0, 5461.0, 5482.0, 5288.0, 5390.0, 5310.0, 5295.0, 5534.0, 5684.0, 5697.0, 5619.0, 5562.0, 5542.0, 5436.0, 5478.0, 5492.0, 5656.0, 5464.0
30	5280	9	1	333	1	5414.0, 5614.0, 5486.0, 5622.0, 5326.0, 5418.0, 5384.0, 5502.0, 5554.0, 5555.0, 5425.0, 5682.0, 5347.0, 5306.0, 5304.0, 5375.0, 5589.0, 5409.0, 5526.0, 5522.0, 5273.0, 5343.0, 5585.0, 5458.0, 5633.0, 5416.0, 5599.0, 5350.0, 5506.0, 5279.0, 5403.0, 5402.0, 5373.0, 5528.0, 5431.0, 5463.0, 5287.0, 5708.0, 5718.0, 5704.0, 5609.0, 5508.0, 5255.0, 5717.0, 5539.0, 5437.0, 5532.0, 5408.0, 5411.0, 5380.0, 5419.0, 5258.0, 5301.0, 5457.0, 5293.0, 5321.0, 5515.0, 5296.0, 5476.0, 5413.0, 5712.0, 5388.0, 5606.0, 5569.0, 5638.0, 5454.0, 5356.0, 5259.0, 5604.0, 5543.0, 5485.0, 5518.0, 5507.0, 5412.0, 5372.0, 5562.0, 5632.0, 5641.0, 5365.0, 5703.0, 5666.0, 5625.0, 5452.0, 5477.0, 5401.0, 5329.0, 5684.0, 5308.0, 5297.0, 5621.0, 5564.0, 5592.0, 5400.0, 5272.0, 5603.0, 5276.0, 5665.0, 5494.0, 5536.0, 5488.0

5250-5350MHz, 40MHz,

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

Please refer to the following statistical tables:

5270MHz

Radar Type 1A Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	72	1.0	738	1
2	5270	62	1.0	858	1
3	5270	68	1.0	778	1
4	5270	74	1.0	718	1
5	5270	92	1.0	578	1
6	5270	63	1.0	838	1
7	5270	78	1.0	678	1
8	5270	89	1.0	598	1
9	5270	58	1.0	918	1
10	5270	86	1.0	618	1
11	5270	67	1.0	798	1
12	5270	65	1.0	818	1
13	5270	95	1.0	558	1
14	5270	59	1.0	898	1
15	5270	61	1.0	878	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	5270	20	1.0	2763	1
2	5270	56	1.0	949	1
3	5270	31	1.0	1751	1
4	5270	30	1.0	1797	1
5	5270	28	1.0	1900	1
6	5270	33	1.0	1634	1
7	5270	41	1.0	1313	1
8	5270	75	1.0	712	1
9	5270	21	1.0	2601	1
10	5270	47	1.0	1144	1
11	5270	25	1.0	2154	1
12	5270	18	1.0	2935	1
13	5270	90	1.0	592	1
14	5270	23	1.0	2305	1
15	5270	92	1.0	575	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	5270	28	3.1	196	1
2	5270	25	3.3	156	0
3	5270	25	3.2	162	1
4	5270	27	1.7	150	1
5	5270	28	4.1	171	1
6	5270	25	4.5	161	1
7	5270	23	3.0	152	1
8	5270	28	1.5	225	1
9	5270	24	3.4	156	0
10	5270	28	4.8	227	1
11	5270	27	4.9	227	1
12	5270	29	2.5	181	1
13	5270	28	4.6	193	1
14	5270	24	4.1	152	1
15	5270	26	1.0	154	1
16	5270	24	2.4	188	1
17	5270	27	4.1	173	1
18	5270	28	4.4	174	1
19	5270	23	2.2	186	1
20	5270	23	2.5	209	1
21	5270	24	2.2	187	1
22	5270	29	2.3	159	1
23	5270	25	1.1	150	1
24	5270	23	1.7	198	1
25	5270	25	1.2	152	1
26	5270	26	4.2	175	1
27	5270	29	2.5	201	1
28	5270	29	4.7	164	1
29	5270	23	4.6	223	1
30	5270	27	2.2	171	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	16	8.1	386	1
2	5270	16	7.8	270	1
3	5270	16	9.3	284	1
4	5270	16	8.2	272	1
5	5270	17	9.4	390	1
6	5270	18	6.1	480	1
7	5270	16	7.5	294	1
8	5270	18	6.3	373	1
9	5270	18	8.9	443	1
10	5270	18	7.1	350	1
11	5270	17	10	272	0
12	5270	16	6.5	206	1
13	5270	16	7.8	499	1
14	5270	18	6.4	237	1
15	5270	17	9.3	449	1
16	5270	17	8.6	254	1
17	5270	18	6.1	279	1
18	5270	16	7.1	362	1
19	5270	16	7	356	1
20	5270	17	6.1	328	1
21	5270	18	7.7	417	1
22	5270	18	6.9	291	1
23	5270	17	7.6	413	1
24	5270	18	10	313	1
25	5270	16	6.5	242	1
26	5270	17	8.9	249	1
27	5270	17	9.4	419	1
28	5270	17	8.3	394	1
29	5270	17	7.9	340	1
30	5270	16	7.8	420	1
Detection Percentage: 96.7 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	14	13.8	318	1
2	5270	13	19.9	403	1
3	5270	16	17.8	466	1
4	5270	15	16.3	267	1
5	5270	15	12.7	272	1
6	5270	16	17.4	459	1
7	5270	13	18	215	1
8	5270	12	15	371	1
9	5270	13	19.9	208	0
10	5270	16	11.7	340	1
11	5270	13	14.5	221	1
12	5270	12	15.2	220	1
13	5270	12	17.3	453	1
14	5270	13	15.6	229	1
15	5270	13	14.4	343	1
16	5270	15	17.2	411	1
17	5270	16	15.8	348	1
18	5270	12	14	451	1
19	5270	16	16.5	265	1
20	5270	12	14.8	259	1
21	5270	12	11.3	430	1
22	5270	16	18.4	290	1
23	5270	16	16.8	273	1
24	5270	16	12.5	344	1
25	5270	12	16.3	206	1
26	5270	13	14.2	298	1
27	5270	15	13	262	1
28	5270	13	18.8	303	1
29	5270	13	19.7	392	1
30	5270	13	11.2	338	1
Detection Percentage: 96.7 % (>60%)					

Radar Type 5 Case1 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5270MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	6	68.3	1526	/	0.334071	1
1	2	6	50.2	1162	/	1.223942	
2	2	6	65.9	1133	/	2.292802	
3	2	6	81.7	1693	/	3.131217	
4	2	6	90.2	1496	/	4.869055	
5	2	6	98.6	1948	/	5.784508	
6	2	6	92.9	1625	/	6.091848	
7	1	6	70.8	/	/	7.362719	
8	1	6	98.1	/	/	8.43362	
9	1	6	75.1	/	/	9.584297	
10	3	6	54	1474	1836	10.970374	
11	2	6	99	1554	/	11.709506	

Statistics 2 (ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	7	87.2	/	/	0.56004	1
1	2	7	63.3	1319	/	0.687632	
2	3	7	80.1	1444	1149	1.70459	
3	1	7	77.4	/	/	1.854664	
4	2	7	63.7	1344	/	2.540678	
5	2	7	92.9	1138	/	3.302744	
6	1	7	74.4	/	/	3.971808	
7	3	7	85.9	1691	1453	4.725804	
8	2	7	80.2	1677	/	5.209015	
9	2	7	56.3	1320	/	5.979699	
10	3	7	73.3	1235	1636	6.563498	
11	3	7	79.2	1152	1367	6.999305	
12	1	7	92.2	/	/	7.406721	
13	2	7	98.1	1944	/	8.27265	
14	1	7	97.1	/	/	8.969361	
15	2	7	76.4	1541	/	9.196322	
16	2	7	69.5	1465	/	10.051212	
17	2	7	74.9	1075	/	10.472546	
18	2	7	76.9	1252	/	11.080947	
19	2	7	58.6	1015	/	11.881029	

Statistics 3 (ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	8	81.5	1502	1304	0.300528	1
1	3	8	97	1265	1176	1.199412	
2	3	8	87.5	1727	1317	1.725203	
3	2	8	69.1	1433	/	2.654757	
4	3	8	84.7	1439	1910	3.290953	
5	2	8	90	1371	/	3.725915	
6	2	8	87.8	1746	/	4.637971	
7	1	8	97.1	/	/	5.034111	
8	3	8	70.7	1703	1595	5.37993	
9	2	8	97.2	1706	/	6.623469	
10	3	8	56.7	1028	1612	6.671461	
11	2	8	81.1	1442	/	7.885383	
12	3	8	65.8	1878	1069	8.544786	
13	2	8	51.2	1822	/	9.273409	
14	1	8	62	/	/	9.697207	
15	3	8	52	1915	1428	10.168953	
16	3	8	82.9	1498	1204	11.062872	
17	1	8	51.6	/	/	11.740352	

Statistics 4 (ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	5	53	1878	/	0.324245	1
1	3	5	82	1848	1732	0.810817	
2	1	5	69.9	/	/	1.778188	
3	3	5	68.6	1988	1598	2.051893	
4	2	5	87.9	1583	/	2.80441	
5	2	5	73.7	1629	/	3.276153	
6	3	5	95.8	1723	1132	3.940831	
7	2	5	72.3	1416	/	4.74882	
8	1	5	68.8	/	/	5.250676	
9	1	5	73.3	/	/	5.64591	
10	2	5	69.5	1315	/	6.147478	
11	1	5	94.2	/	/	6.896922	
12	3	5	53.1	1335	1044	7.476125	
13	2	5	70.8	1673	/	8.229984	
14	1	5	69	/	/	8.426565	
15	2	5	65.5	1764	/	9.295315	
16	1	5	73.8	/	/	9.994352	
17	2	5	84.6	1975	/	10.501707	
18	2	5	72.4	1399	/	10.805596	
19	1	5	73	/	/	11.481773	

Statistics 5(ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	14	77.9	/	/	0.026746	
1	1	14	55.8	/	/	1.857039	
2	3	14	80.1	1558	1944	2.903873	
3	2	14	96.4	1636	/	4.593755	
4	1	14	54.2	/	/	5.558809	1
5	2	14	89.3	1503	/	6.727238	
6	2	14	79.8	1826	/	9.221708	
7	1	14	58.3	/	/	9.835131	
8	3	14	97.8	1315	1271	11.753247	

Statistics 6 (ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	11	67.6	/	/	0.373502	
1	3	11	67	1360	1775	1.684685	
2	1	11	71.4	/	/	2.03779	
3	1	11	69.4	/	/	3.303253	
4	2	11	80.3	1665	/	3.733016	
5	1	11	86.3	/	/	4.847078	
6	2	11	57.7	1276	/	6.406691	1
7	1	11	54	/	/	6.850555	
8	3	11	79.1	1023	1065	7.715825	
9	2	11	78.8	1731	/	8.59328	
10	2	11	94.7	1858	/	9.502466	
11	2	11	87.5	1874	/	10.665757	
12	2	11	68.2	1689	/	11.476847	

Statistics 7(ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	65.4	1940	/	0.594461	
1	2	11	84.4	1463	/	1.164692	
2	2	11	92.7	1037	/	1.372306	
3	2	11	58.3	1320	/	2.34034	
4	3	11	83.6	1023	1960	2.911043	
5	1	11	77.4	/	/	3.700554	
6	1	11	72.4	/	/	4.02599	
7	1	11	70.1	/	/	4.970851	
8	3	11	96.9	1354	1245	5.617538	
9	3	11	100	1702	1244	5.889771	1
10	1	11	52.7	/	/	6.675679	
11	2	11	92.9	1716	/	7.478843	
12	1	11	78.7	/	/	7.748667	
13	2	11	98.8	1926	/	8.673502	
14	2	11	74.2	1627	/	8.977715	
15	1	11	97.6	/	/	9.657628	
16	2	11	75.2	1853	/	10.419795	
17	2	11	62.5	1414	/	10.824645	
18	2	11	90.5	1831	/	11.474569	

Statistics 8 (ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	7	83.4	/	/	0.257421	
1	2	7	52	1242	/	1.354878	
2	3	7	63.2	1144	1723	1.850153	
3	2	7	99.1	1705	/	2.866906	
4	3	7	74.1	1671	1220	3.863432	
5	3	7	90.3	1759	1846	4.24339	
6	2	7	56.8	1288	/	5.12899	
7	3	7	60.6	1487	1018	6.224965	1
8	3	7	53.8	1369	1684	7.116248	
9	1	7	76.4	/	/	7.463825	
10	1	7	81.9	/	/	8.660197	
11	2	7	97.5	1472	/	9.022905	
12	3	7	53.6	1855	1156	9.617093	
13	2	7	90.3	1180	/	11.126664	
14	2	7	62.4	1632	/	11.953783	

Statistics 9 (ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	6	50.2	1814	/	0.196461	1
1	2	6	93.4	1645	/	1.249183	
2	1	6	56.7	/	/	1.774835	
3	3	6	64	1911	1229	2.856398	
4	3	6	90	1093	1113	4.029188	
5	2	6	85.3	1649	/	4.350657	
6	2	6	52.5	1288	/	5.575115	
7	2	6	50.2	1738	/	6.52806	
8	2	6	64.4	1928	/	7.294139	
9	3	6	58.1	1200	1271	8.457179	
10	2	6	85	1197	/	8.990545	
11	3	6	79	1548	1202	9.875523	
12	2	6	51.4	1999	/	10.325044	
13	3	6	71.9	1207	1382	11.343031	

Statistics 10 (ChirpCenter Frequency: 5270 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	6	61.2	/	/	0.880452	1
1	2	6	77.2	1925	/	1.797704	
2	3	6	75.4	1663	1831	3.123205	
3	2	6	74.9	1501	/	4.026741	
4	1	6	58	/	/	4.558644	
5	1	6	73.9	/	/	6.037698	
6	3	6	73.5	1860	1558	6.8547	
7	2	6	59.2	1687	/	8.004796	
8	2	6	53.2	1001	/	8.781528	
9	2	6	53.4	1073	/	10.366429	
10	3	6	87.6	1650	1256	11.745813	

Radar Type 5 Case2 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5256MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	56.8	1314	/	0.688916	1
1	2	11	79.2	1808	/	0.881184	
2	2	11	78.2	1769	/	1.810573	
3	2	11	80	1822	/	2.633243	
4	1	11	77	/	/	3.563371	
5	3	11	92	1182	1226	4.979669	
6	2	11	81.7	1065	/	5.587325	
7	3	11	60.3	1194	1010	6.435346	
8	2	11	83.6	1407	/	6.910869	
9	1	11	51.5	/	/	7.870819	
10	2	11	72	1955	/	8.897719	
11	3	11	64.1	1563	1994	9.547848	
12	2	11	95.9	1963	/	10.405557	
13	2	11	93.9	1225	/	11.929012	

Statistics 2 (ChirpCenter Frequency: 5260 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	20	53.7	1745	1078	1.309504	1
1	3	20	64.8	1342	1900	2.878027	
2	1	20	65	/	/	3.993807	
3	2	20	50.6	1230	/	5.266327	
4	2	20	63.1	1401	/	7.281257	
5	2	20	92.4	1369	/	8.111294	
6	2	20	63.6	1039	/	10.066799	
7	3	20	53.9	1760	1060	10.669966	

Statistics 3 (ChirpCenter Frequency: 5254 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	7	53.7	/	/	0.671133	1
1	3	7	52.9	1612	1787	1.214982	
2	2	7	67.7	1664	/	2.51715	
3	2	7	61.6	1787	/	3.256992	
4	2	7	79.1	1349	/	4.205991	
5	2	7	75.2	1401	/	5.544665	
6	3	7	50.5	1457	1132	6.728706	
7	2	7	54.7	1106	/	7.290414	
8	2	7	59	1454	/	8.792154	
9	2	7	51.9	1141	/	9.889963	
10	2	7	85.9	1858	/	10.399499	
11	2	7	51.7	1822	/	11.43433	

Statistics 4 (ChirpCenter Frequency: 5256 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	11	53.3	/	/	0.87083	1
1	1	11	77.2	/	/	1.540859	
2	2	11	74.9	1822	/	1.917914	
3	2	11	72.1	1825	/	3.010105	
4	1	11	94.5	/	/	3.99407	
5	3	11	67.7	1909	1050	5.283995	
6	3	11	82.9	1707	1662	5.904823	
7	3	11	87	1550	1575	6.844443	
8	1	11	53.8	/	/	7.936863	
9	3	11	74.7	1340	1560	8.535961	
10	2	11	91.5	1649	/	9.52583	
11	2	11	74.7	1607	/	10.408432	
12	2	11	94.9	1739	/	11.229167	

Statistics 5(ChirpCenter Frequency: 5257 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	14	88.3	1337	/	0.147981	
1	1	14	66.8	/	/	1.005776	
2	3	14	73.1	1435	1255	2.074256	
3	2	14	77.1	1413	/	2.527154	
4	1	14	63.8	/	/	3.915334	
5	1	14	77.5	/	/	4.671379	
6	2	14	53	1479	/	4.840607	
7	2	14	62	1099	/	5.635717	1
8	2	14	62	1280	/	6.699762	
9	2	14	62.7	1385	/	7.599595	
10	1	14	56.2	/	/	8.496327	
11	3	14	90.2	1026	1232	9.051123	
12	2	14	77.6	1880	/	9.729917	
13	3	14	85.9	1552	1539	10.513599	
14	2	14	98.7	1222	/	11.799653	

Statistics 6 (ChirpCenter Frequency: 5257 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	14	65.1	1400	/	1.326926	
1	2	14	64.3	1884	/	1.415275	
2	1	14	87.1	/	/	2.689956	
3	1	14	80.7	/	/	4.069846	
4	1	14	98.2	/	/	6.207748	1
5	3	14	64.2	1429	1902	7.59026	
6	2	14	76.8	1618	/	8.825224	
7	2	14	90.3	1461	/	9.375384	
8	2	14	87.4	1794	/	11.727037	

Statistics 7(ChirpCenter Frequency: 5255 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	8	65.3	1655	/	0.426154	
1	2	8	85.8	1657	/	0.650234	
2	3	8	71.7	1600	1776	1.345065	
3	1	8	73.7	/	/	2.439278	
4	2	8	85.9	1678	/	2.599984	
5	2	8	62	1173	/	3.308884	
6	1	8	81.2	/	/	4.252643	
7	2	8	72	1021	/	4.579247	
8	1	8	76.3	/	/	5.534231	
9	2	8	93.9	1735	/	6.063101	1
10	3	8	82.7	1484	1262	6.924608	
11	1	8	97.2	/	/	7.363725	
12	3	8	71.7	1271	1129	8.007661	
13	1	8	93.8	/	/	8.526493	
14	2	8	84.6	1129	/	9.29899	
15	3	8	70.2	1809	1415	9.935653	
16	1	8	92.4	/	/	10.235898	
17	3	8	58.4	1937	1905	10.897962	
18	1	8	99.7	/	/	11.71266	

Statistics 8 (ChirpCenter Frequency: 5256 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	12	91.2	/	/	0.310463	
1	3	12	85.1	1695	1345	1.658703	
2	2	12	66.3	1999	/	1.961139	
3	2	12	93.5	1009	/	3.067931	
4	2	12	59.9	1046	/	3.81828	
5	2	12	51.4	1320	/	5.245609	
6	2	12	57.5	1222	/	6.037463	1
7	3	12	78.4	1257	1708	6.751553	
8	3	12	57.3	1545	1513	7.542967	
9	1	12	68.9	/	/	8.43315	
10	3	12	52.3	1436	1507	9.374252	
11	2	12	97.2	1175	/	10.986906	
12	1	12	80.2	/	/	11.186739	

Statistics 9 (ChirpCenter Frequency: 5257 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	13	83.5	1959	/	0.489885	1
1	2	13	90.4	1946	/	0.955589	
2	1	13	68.1	/	/	1.538803	
3	2	13	87	1917	/	2.095399	
4	1	13	77.8	/	/	3.050703	
5	3	13	75.3	1417	1163	3.795964	
6	3	13	74.3	1199	1308	4.151686	
7	3	13	57.4	1040	1775	5.296101	
8	1	13	84.1	/	/	5.71172	
9	2	13	76.2	1045	/	6.261245	
10	3	13	85.8	1323	1911	7.253844	
11	1	13	78	/	/	7.77629	
12	2	13	67.6	1163	/	8.31069	
13	1	13	62.5	/	/	8.697814	
14	2	13	86.8	1945	/	9.700063	
15	3	13	78.9	1116	1676	10.516193	
16	2	13	84.7	1139	/	11.237702	
17	2	13	54.9	1604	/	11.722818	

Statistics 10 (ChirpCenter Frequency: 5259 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	19	65.2	1012	1257	0.948924	1
1	2	19	86.6	1838	/	1.79193	
2	1	19	62.6	/	/	2.431554	
3	3	19	79.3	1602	1385	4.31529	
4	3	19	57	1959	1689	4.386324	
5	3	19	81.1	1928	1423	6.104088	
6	2	19	73.3	1445	/	7.211728	
7	3	19	92	1935	1232	8.407139	
8	2	19	62.4	1382	/	8.956596	
9	1	19	55.7	/	/	10.08752	
10	1	19	59.1	/	/	11.68201	

Radar Type 5 Case3 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5281MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	18	91	/	/	0.798482	1
1	1	18	62.7	/	/	1.520838	
2	3	18	50.4	1168	1251	2.18405	
3	3	18	68.6	1330	1495	3.250909	
4	1	18	66.4	/	/	4.13755	
5	1	18	84.8	/	/	4.878545	
6	1	18	95.6	/	/	6.000656	
7	1	18	87.4	/	/	6.902286	
8	3	18	51.3	1897	1398	7.811439	
9	1	18	91.8	/	/	8.690421	
10	2	18	74	1336	/	9.270404	
11	1	18	89	/	/	10.843454	
12	2	18	51.5	1763	/	11.123859	

Statistics 2 (ChirpCenter Frequency: 5282 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	17	87.6	/	/	0.562106	1
1	1	17	85.2	/	/	1.313059	
2	2	17	69.8	1263	/	1.755332	
3	2	17	92.5	1902	/	2.580697	
4	3	17	82.4	1627	1715	3.035576	
5	3	17	53.5	1760	1169	3.98888	
6	2	17	56.4	1840	/	5.203763	
7	1	17	53.5	/	/	5.540373	
8	2	17	85.9	1107	/	6.16012	
9	2	17	81.3	1741	/	7.00711	
10	3	17	77.7	1585	1704	8.239359	
11	3	17	75.8	1515	1514	8.395949	
12	1	17	99.1	/	/	9.234164	
13	2	17	51.8	1150	/	10.043634	
14	2	17	53.1	1963	/	11.173998	
15	2	17	91	1336	/	11.606989	

Statistics 3 (ChirpCenter Frequency: 5284 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	87.1	1878	/	0.171171	
1	1	11	60.3	/	/	1.368593	
2	2	11	53.2	1778	/	1.506347	
3	2	11	81.1	1567	/	2.415456	
4	2	11	81.8	1498	/	2.965806	
5	1	11	95.2	/	/	3.53894	
6	1	11	74.6	/	/	4.622413	
7	3	11	53.9	1541	1652	5.370642	
8	2	11	66.1	1599	/	6.311692	1
9	3	11	78.4	1962	1310	6.583828	
10	1	11	90.4	/	/	7.373348	
11	2	11	50.9	1136	/	8.30728	
12	2	11	87.5	1610	/	8.590786	
13	3	11	97.1	1373	1221	9.355123	
14	2	11	74.2	1897	/	10.069561	
15	1	11	72.8	/	/	10.884779	
16	1	11	50.9	/	/	11.464759	

Statistics 4 (ChirpCenter Frequency: 5283 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	14	59	1013	/	0.540235	
1	3	14	88.1	1044	1181	1.061585	
2	2	14	72.8	1766	/	1.680976	
3	1	14	60.2	/	/	3.007614	
4	2	14	61.5	1495	/	3.606072	
5	2	14	53.4	1194	/	4.683777	
6	2	14	53.8	1679	/	5.271258	
7	2	14	57.6	1314	/	5.812267	1
8	2	14	76.5	1858	/	6.937428	
9	2	14	87.5	1201	/	7.660355	
10	3	14	86.6	1256	1793	8.745522	
11	2	14	72.1	1390	/	9.382638	
12	2	14	62.4	1842	/	9.809471	
13	2	14	89.9	1039	/	10.911484	
14	3	14	70.3	1775	1827	11.84336	

Statistics 5(ChirpCenter Frequency: 5283 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	14	93.7	/	/	0.729608	0
1	2	14	52.7	1579	/	1.178937	
2	3	14	79	1497	1683	3.233551	
3	3	14	97.3	1342	1028	3.61576	
4	1	14	96.8	/	/	4.569681	
5	2	14	79.8	1275	/	5.665338	
6	1	14	81.9	/	/	7.100324	
7	1	14	54.5	/	/	8.510885	
8	2	14	99.8	1594	/	9.204132	
9	2	14	89.8	1271	/	10.678471	
10	1	14	50.2	/	/	11.150247	

Statistics 6 (ChirpCenter Frequency: 5284 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	12	66.4	1404	1820	0.587809	1
1	1	12	76.5	/	/	1.53825	
2	3	12	91.5	1550	1211	3.41661	
3	3	12	86.2	1883	1063	4.442161	
4	2	12	74.6	1846	/	5.452528	
5	3	12	93.9	1708	1102	7.100231	
6	1	12	91.7	/	/	7.650899	
7	2	12	51.1	1136	/	8.496418	
8	2	12	74.2	1310	/	10.784461	
9	2	12	77.9	1726	/	11.393068	

Statistics 7(ChirpCenter Frequency: 5286 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	7	84.6	1899	1850	0.135551	1
1	2	7	74.3	1811	/	1.594337	
2	2	7	63.3	1016	/	2.716288	
3	2	7	51.5	1294	/	4.112861	
4	3	7	80.8	1788	1433	5.600065	
5	2	7	97.4	1710	/	7.081451	
6	3	7	65.8	1009	1859	8.037772	
7	2	7	50.5	1509	/	9.497479	
8	3	7	67.5	1296	1397	10.041635	
9	1	7	94.9	/	/	10.977756	

Statistics 8 (ChirpCenter Frequency: 5283 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	14	66.2	1741	/	1.171853	1
1	1	14	57.4	/	/	1.557826	
2	1	14	56	/	/	2.543874	
3	2	14	67.2	1539	/	4.7689	
4	2	14	50.6	1695	/	5.410854	
5	3	14	74.8	1876	1464	6.156148	
6	2	14	56.6	1370	/	7.681042	
7	1	14	62.9	/	/	9.274222	
8	2	14	66.9	1289	/	10.406956	
9	3	14	57.2	1912	1412	11.025016	

Statistics 9 (ChirpCenter Frequency: 5282 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	17	67.7	1498	/	0.15808	
1	1	17	77.2	/	/	1.00615	
2	2	17	100	1573	/	2.124351	
3	2	17	92.5	1647	/	3.320809	
4	1	17	76.4	/	/	3.815387	
5	3	17	84.3	1317	1126	5.43562	
6	2	17	59.8	1445	/	5.652537	1
7	2	17	75.7	1273	/	7.265372	
8	3	17	90.3	1530	1048	7.475849	
9	3	17	59.5	1924	1541	8.716517	
10	3	17	64.8	1051	1748	9.350584	
11	2	17	61.5	1145	/	11.053802	
12	3	17	67	1784	1149	11.294368	

Statistics 10 (ChirpCenter Frequency: 5286 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	7	88.4	1546	/	0.787506	
1	2	7	90.9	1022	/	2.1024	
2	2	7	54.8	1858	/	2.685739	
3	2	7	83.7	1361	/	3.32316	
4	3	7	64.1	1527	1570	4.945836	
5	2	7	73.4	1119	/	5.793184	1
6	2	7	64.9	1196	/	7.389737	
7	2	7	98.9	1263	/	8.381497	
8	3	7	57.2	1520	1727	9.164352	
9	2	7	76.2	1903	/	10.148185	
10	2	7	72.9	1143	/	10.991644	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence(GHz)
1	5270	9	1	333	1	5581.0, 5625.0, 5397.0, 5408.0, 5511.0, 5496.0, 5664.0, 5488.0, 5635.0, 5342.0, 5314.0, 5563.0, 5288.0, 5614.0, 5399.0, 5412.0, 5433.0, 5421.0, 5464.0, 5303.0, 5697.0, 5468.0, 5423.0, 5297.0, 5641.0, 5395.0, 5639.0, 5471.0, 5600.0, 5621.0, 5555.0, 5319.0, 5594.0, 5525.0, 5671.0, 5365.0, 5263.0, 5266.0, 5677.0, 5584.0, 5553.0, 5533.0, 5521.0, 5674.0, 5352.0, 5580.0, 5556.0, 5570.0, 5338.0, 5593.0, 5299.0, 5326.0, 5291.0, 5371.0, 5474.0, 5442.0, 5377.0, 5680.0, 5375.0, 5369.0, 5301.0, 5691.0, 5385.0, 5569.0, 5502.0, 5714.0, 5257.0, 5470.0, 5557.0, 5611.0, 5617.0, 5479.0, 5382.0, 5491.0, 5500.0, 5344.0, 5539.0, 5694.0, 5510.0, 5606.0, 5527.0, 5289.0, 5458.0, 5578.0, 5449.0, 5514.0, 5420.0, 5540.0, 5722.0, 5328.0, 5579.0, 5478.0, 5616.0, 5548.0, 5448.0, 5417.0, 5400.0, 5561.0, 5318.0, 5462.0
2	5270	9	1	333	1	5318.0, 5317.0, 5265.0, 5254.0, 5431.0, 5324.0, 5534.0, 5670.0, 5347.0, 5677.0, 5259.0, 5372.0, 5385.0, 5580.0, 5714.0, 5426.0, 5394.0, 5270.0, 5450.0, 5470.0, 5371.0, 5359.0, 5609.0, 5496.0, 5511.0, 5516.0, 5344.0, 5690.0, 5627.0, 5345.0, 5708.0, 5491.0, 5341.0, 5505.0, 5369.0, 5697.0, 5710.0, 5405.0, 5543.0, 5311.0, 5576.0, 5434.0, 5507.0, 5262.0, 5703.0, 5468.0, 5553.0, 5548.0, 5630.0, 5424.0, 5610.0, 5328.0, 5401.0, 5603.0, 5294.0, 5327.0, 5544.0, 5490.0, 5631.0, 5398.0, 5342.0, 5526.0, 5720.0, 5379.0, 5639.0, 5478.0, 5354.0, 5458.0, 5463.0, 5277.0, 5286.0, 5300.0, 5388.0, 5289.0, 5622.0, 5687.0, 5441.0, 5642.0, 5696.0, 5390.0, 5641.0, 5568.0, 5607.0, 5661.0, 5309.0, 5616.0, 5437.0, 5296.0, 5283.0, 5304.0, 5500.0, 5499.0, 5481.0, 5620.0, 5513.0, 5439.0, 5633.0, 5378.0, 5358.0, 5722.0
3	5270	9	1	333	1	5531.0, 5364.0, 5406.0, 5493.0, 5585.0, 5438.0, 5263.0, 5616.0, 5488.0, 5477.0, 5367.0, 5419.0, 5603.0, 5437.0, 5300.0, 5360.0, 5524.0, 5495.0, 5551.0, 5576.0, 5327.0, 5261.0, 5365.0, 5671.0, 5511.0, 5297.0, 5569.0, 5378.0, 5519.0, 5683.0, 5337.0, 5445.0, 5688.0, 5362.0, 5251.0, 5721.0, 5431.0, 5456.0, 5347.0, 5292.0, 5540.0, 5323.0, 5386.0, 5265.0, 5334.0, 5578.0, 5700.0, 5598.0, 5352.0, 5508.0, 5695.0, 5536.0, 5306.0, 5539.0, 5509.0, 5286.0, 5277.0, 5340.0, 5604.0, 5383.0, 5387.0, 5420.0, 5547.0, 5597.0, 5272.0,

						5589.0, 5332.0, 5500.0, 5382.0, 5391.0, 5474.0, 5562.0, 5678.0, 5449.0, 5681.0, 5672.0, 5618.0, 5574.0, 5599.0, 5313.0, 5560.0, 5256.0, 5680.0, 5505.0, 5433.0, 5694.0, 5663.0, 5308.0, 5662.0, 5485.0, 5584.0, 5472.0, 5501.0, 5413.0, 5279.0, 5709.0, 5561.0, 5276.0, 5614.0, 5328.0
4	5270	9	1	333	1	5268.0, 5335.0, 5324.0, 5697.0, 5274.0, 5351.0, 5423.0, 5380.0, 5581.0, 5505.0, 5448.0, 5703.0, 5680.0, 5284.0, 5591.0, 5466.0, 5670.0, 5438.0, 5559.0, 5400.0, 5469.0, 5516.0, 5624.0, 5514.0, 5390.0, 5391.0, 5661.0, 5276.0, 5355.0, 5269.0, 5721.0, 5343.0, 5553.0, 5388.0, 5696.0, 5264.0, 5663.0, 5720.0, 5537.0, 5295.0, 5575.0, 5565.0, 5616.0, 5548.0, 5443.0, 5489.0, 5519.0, 5561.0, 5267.0, 5376.0, 5556.0, 5327.0, 5402.0, 5713.0, 5477.0, 5700.0, 5315.0, 5708.0, 5256.0, 5544.0, 5476.0, 5508.0, 5299.0, 5637.0, 5658.0, 5375.0, 5628.0, 5319.0, 5286.0, 5598.0, 5504.0, 5707.0, 5458.0, 5683.0, 5313.0, 5608.0, 5664.0, 5502.0, 5535.0, 5473.0, 5627.0, 5579.0, 5285.0, 5446.0, 5255.0, 5478.0, 5374.0, 5497.0, 5322.0, 5331.0, 5717.0, 5487.0, 5457.0, 5278.0, 5288.0, 5459.0, 5524.0, 5655.0, 5525.0, 5685.0
5	5270	9	1	333	1	5372.0, 5440.0, 5441.0, 5722.0, 5433.0, 5590.0, 5438.0, 5376.0, 5527.0, 5614.0, 5579.0, 5312.0, 5616.0, 5259.0, 5575.0, 5368.0, 5662.0, 5351.0, 5286.0, 5467.0, 5346.0, 5570.0, 5550.0, 5463.0, 5304.0, 5585.0, 5559.0, 5442.0, 5268.0, 5265.0, 5303.0, 5702.0, 5627.0, 5577.0, 5625.0, 5288.0, 5261.0, 5713.0, 5430.0, 5528.0, 5305.0, 5475.0, 5465.0, 5538.0, 5300.0, 5355.0, 5399.0, 5336.0, 5409.0, 5332.0, 5397.0, 5506.0, 5396.0, 5583.0, 5263.0, 5490.0, 5719.0, 5501.0, 5309.0, 5408.0, 5572.0, 5548.0, 5320.0, 5402.0, 5593.0, 5571.0, 5293.0, 5422.0, 5505.0, 5366.0, 5432.0, 5446.0, 5684.0, 5620.0, 5308.0, 5388.0, 5611.0, 5298.0, 5341.0, 5452.0, 5513.0, 5272.0, 5643.0, 5367.0, 5267.0, 5276.0, 5521.0, 5381.0, 5540.0, 5285.0, 5518.0, 5532.0, 5393.0, 5487.0, 5644.0, 5560.0, 5391.0, 5717.0, 5417.0, 5364.0
6	5270	9	1	333	1	5392.0, 5547.0, 5313.0, 5472.0, 5610.0, 5696.0, 5542.0, 5559.0, 5504.0, 5580.0, 5556.0, 5341.0, 5691.0, 5447.0, 5672.0, 5502.0, 5427.0, 5285.0, 5465.0, 5540.0, 5254.0, 5557.0, 5369.0, 5400.0, 5434.0, 5402.0, 5688.0, 5449.0, 5723.0, 5602.0, 5419.0, 5656.0, 5435.0, 5338.0, 5663.0, 5495.0, 5473.0, 5635.0, 5551.0, 5426.0, 5593.0, 5378.0, 5253.0, 5707.0, 5271.0, 5476.0, 5624.0, 5536.0, 5488.0, 5611.0, 5509.0, 5654.0, 5719.0, 5708.0, 5651.0, 5613.0, 5410.0, 5673.0, 5543.0, 5574.0, 5317.0, 5430.0, 5446.0, 5405.0, 5330.0,

						5281.0, 5679.0, 5530.0, 5407.0, 5677.0, 5487.0, 5391.0, 5443.0, 5289.0, 5272.0, 5470.0, 5339.0, 5471.0, 5618.0, 5598.0, 5388.0, 5340.0, 5625.0, 5401.0, 5506.0, 5579.0, 5571.0, 5333.0, 5541.0, 5376.0, 5452.0, 5693.0, 5722.0, 5724.0, 5698.0, 5585.0, 5720.0, 5292.0, 5475.0, 5609.0
7	5270	9	1	333	1	5336.0, 5564.0, 5494.0, 5678.0, 5596.0, 5425.0, 5646.0, 5447.0, 5550.0, 5504.0, 5260.0, 5417.0, 5467.0, 5717.0, 5311.0, 5383.0, 5534.0, 5576.0, 5627.0, 5265.0, 5475.0, 5719.0, 5529.0, 5684.0, 5273.0, 5351.0, 5638.0, 5539.0, 5477.0, 5551.0, 5577.0, 5348.0, 5377.0, 5570.0, 5647.0, 5296.0, 5674.0, 5405.0, 5625.0, 5415.0, 5683.0, 5491.0, 5332.0, 5388.0, 5358.0, 5306.0, 5288.0, 5622.0, 5418.0, 5394.0, 5419.0, 5457.0, 5556.0, 5535.0, 5449.0, 5478.0, 5651.0, 5663.0, 5450.0, 5298.0, 5583.0, 5593.0, 5587.0, 5328.0, 5702.0, 5272.0, 5359.0, 5722.0, 5391.0, 5659.0, 5533.0, 5469.0, 5689.0, 5268.0, 5470.0, 5660.0, 5432.0, 5270.0, 5654.0, 5392.0, 5436.0, 5333.0, 5522.0, 5497.0, 5422.0, 5693.0, 5641.0, 5579.0, 5595.0, 5691.0, 5670.0, 5560.0, 5390.0, 5655.0, 5320.0, 5344.0, 5379.0, 5611.0, 5416.0, 5262.0
8	5270	9	1	333	1	5623.0, 5641.0, 5463.0, 5560.0, 5716.0, 5661.0, 5492.0, 5619.0, 5378.0, 5699.0, 5690.0, 5467.0, 5546.0, 5513.0, 5289.0, 5319.0, 5540.0, 5625.0, 5384.0, 5448.0, 5673.0, 5714.0, 5442.0, 5507.0, 5717.0, 5402.0, 5606.0, 5576.0, 5528.0, 5573.0, 5621.0, 5350.0, 5278.0, 5534.0, 5503.0, 5516.0, 5541.0, 5418.0, 5533.0, 5388.0, 5537.0, 5704.0, 5409.0, 5393.0, 5346.0, 5650.0, 5500.0, 5262.0, 5595.0, 5363.0, 5426.0, 5383.0, 5605.0, 5312.0, 5458.0, 5420.0, 5647.0, 5408.0, 5327.0, 5397.0, 5339.0, 5570.0, 5517.0, 5437.0, 5368.0, 5457.0, 5453.0, 5386.0, 5419.0, 5360.0, 5659.0, 5306.0, 5300.0, 5670.0, 5648.0, 5337.0, 5510.0, 5267.0, 5616.0, 5379.0, 5320.0, 5553.0, 5380.0, 5315.0, 5308.0, 5446.0, 5395.0, 5325.0, 5425.0, 5526.0, 5277.0, 5505.0, 5365.0, 5539.0, 5594.0, 5304.0, 5398.0, 5283.0, 5455.0, 5373.0
9	5270	9	1	333	1	5643.0, 5294.0, 5257.0, 5413.0, 5584.0, 5617.0, 5611.0, 5604.0, 5554.0, 5592.0, 5488.0, 5543.0, 5426.0, 5378.0, 5669.0, 5613.0, 5591.0, 5274.0, 5489.0, 5508.0, 5577.0, 5362.0, 5312.0, 5261.0, 5570.0, 5506.0, 5579.0, 5569.0, 5420.0, 5719.0, 5360.0, 5723.0, 5399.0, 5267.0, 5302.0, 5282.0, 5365.0, 5547.0, 5457.0, 5319.0, 5520.0, 5487.0, 5455.0, 5361.0, 5619.0, 5266.0, 5424.0, 5356.0, 5511.0, 5478.0, 5668.0, 5494.0, 5285.0, 5306.0, 5594.0, 5279.0, 5580.0, 5308.0, 5367.0, 5372.0, 5675.0, 5572.0, 5505.0, 5490.0, 5612.0,

						5468.0, 5410.0, 5403.0, 5504.0, 5270.0, 5632.0, 5314.0, 5679.0, 5527.0, 5311.0, 5568.0, 5586.0, 5539.0, 5340.0, 5452.0, 5497.0, 5691.0, 5573.0, 5583.0, 5596.0, 5436.0, 5695.0, 5318.0, 5585.0, 5696.0, 5566.0, 5501.0, 5666.0, 5700.0, 5400.0, 5310.0, 5650.0, 5674.0, 5407.0, 5590.0
10	5270	9	1	333	1	5463.0, 5617.0, 5628.0, 5581.0, 5291.0, 5514.0, 5424.0, 5338.0, 5280.0, 5608.0, 5655.0, 5654.0, 5493.0, 5582.0, 5497.0, 5692.0, 5669.0, 5394.0, 5356.0, 5691.0, 5470.0, 5326.0, 5315.0, 5406.0, 5251.0, 5443.0, 5533.0, 5471.0, 5620.0, 5537.0, 5368.0, 5546.0, 5566.0, 5683.0, 5711.0, 5262.0, 5343.0, 5605.0, 5328.0, 5416.0, 5405.0, 5489.0, 5449.0, 5578.0, 5446.0, 5719.0, 5409.0, 5639.0, 5310.0, 5473.0, 5430.0, 5329.0, 5414.0, 5589.0, 5658.0, 5643.0, 5570.0, 5319.0, 5339.0, 5602.0, 5271.0, 5460.0, 5359.0, 5423.0, 5373.0, 5552.0, 5300.0, 5283.0, 5700.0, 5442.0, 5426.0, 5676.0, 5550.0, 5713.0, 5593.0, 5635.0, 5568.0, 5495.0, 5612.0, 5270.0, 5613.0, 5354.0, 5415.0, 5715.0, 5274.0, 5388.0, 5561.0, 5626.0, 5408.0, 5577.0, 5610.0, 5376.0, 5706.0, 5584.0, 5502.0, 5538.0, 5308.0, 5671.0, 5607.0, 5532.0
11	5270	9	1	333	1	5580.0, 5562.0, 5255.0, 5527.0, 5715.0, 5385.0, 5603.0, 5334.0, 5559.0, 5287.0, 5457.0, 5655.0, 5676.0, 5386.0, 5697.0, 5452.0, 5596.0, 5277.0, 5627.0, 5670.0, 5375.0, 5716.0, 5574.0, 5344.0, 5712.0, 5579.0, 5474.0, 5701.0, 5361.0, 5665.0, 5321.0, 5395.0, 5658.0, 5698.0, 5332.0, 5688.0, 5347.0, 5699.0, 5393.0, 5563.0, 5526.0, 5256.0, 5632.0, 5606.0, 5307.0, 5368.0, 5398.0, 5460.0, 5475.0, 5663.0, 5538.0, 5640.0, 5537.0, 5349.0, 5636.0, 5578.0, 5695.0, 5567.0, 5516.0, 5501.0, 5629.0, 5702.0, 5485.0, 5600.0, 5589.0, 5605.0, 5306.0, 5273.0, 5713.0, 5668.0, 5656.0, 5274.0, 5479.0, 5582.0, 5430.0, 5282.0, 5369.0, 5638.0, 5471.0, 5381.0, 5620.0, 5619.0, 5498.0, 5646.0, 5396.0, 5687.0, 5437.0, 5625.0, 5293.0, 5299.0, 5359.0, 5483.0, 5520.0, 5371.0, 5451.0, 5494.0, 5489.0, 5659.0, 5378.0, 5542.0
12	5270	9	1	333	1	5314.0, 5449.0, 5363.0, 5692.0, 5465.0, 5371.0, 5701.0, 5385.0, 5369.0, 5536.0, 5309.0, 5258.0, 5380.0, 5627.0, 5332.0, 5508.0, 5345.0, 5649.0, 5341.0, 5349.0, 5292.0, 5714.0, 5396.0, 5313.0, 5285.0, 5538.0, 5515.0, 5358.0, 5621.0, 5667.0, 5361.0, 5671.0, 5360.0, 5493.0, 5661.0, 5520.0, 5422.0, 5321.0, 5648.0, 5720.0, 5669.0, 5411.0, 5665.0, 5271.0, 5473.0, 5689.0, 5546.0, 5408.0, 5500.0, 5368.0, 5337.0, 5429.0, 5388.0, 5716.0, 5305.0, 5298.0, 5437.0, 5588.0, 5699.0, 5418.0, 5444.0, 5479.0, 5352.0, 5311.0, 5603.0,

						5591.0, 5370.0, 5299.0, 5382.0, 5312.0, 5524.0, 5476.0, 5568.0, 5442.0, 5504.0, 5677.0, 5705.0, 5280.0, 5387.0, 5389.0, 5597.0, 5601.0, 5723.0, 5286.0, 5373.0, 5440.0, 5658.0, 5555.0, 5666.0, 5379.0, 5647.0, 5297.0, 5718.0, 5266.0, 5639.0, 5577.0, 5451.0, 5278.0, 5512.0, 5359.0
13	5270	9	1	333	1	5666.0, 5584.0, 5332.0, 5357.0, 5544.0, 5588.0, 5625.0, 5259.0, 5284.0, 5251.0, 5538.0, 5269.0, 5265.0, 5423.0, 5598.0, 5678.0, 5256.0, 5371.0, 5264.0, 5686.0, 5333.0, 5437.0, 5554.0, 5527.0, 5436.0, 5676.0, 5680.0, 5484.0, 5348.0, 5716.0, 5320.0, 5621.0, 5392.0, 5459.0, 5705.0, 5650.0, 5335.0, 5291.0, 5353.0, 5281.0, 5448.0, 5452.0, 5346.0, 5523.0, 5593.0, 5713.0, 5369.0, 5343.0, 5454.0, 5324.0, 5403.0, 5507.0, 5654.0, 5547.0, 5342.0, 5610.0, 5586.0, 5668.0, 5312.0, 5522.0, 5603.0, 5364.0, 5360.0, 5383.0, 5417.0, 5412.0, 5685.0, 5673.0, 5557.0, 5372.0, 5407.0, 5279.0, 5486.0, 5712.0, 5319.0, 5723.0, 5398.0, 5465.0, 5662.0, 5688.0, 5432.0, 5708.0, 5529.0, 5475.0, 5425.0, 5652.0, 5362.0, 5548.0, 5665.0, 5664.0, 5286.0, 5498.0, 5493.0, 5494.0, 5659.0, 5500.0, 5616.0, 5310.0, 5474.0, 5276.0
14	5270	9	1	333	1	5672.0, 5419.0, 5480.0, 5460.0, 5508.0, 5653.0, 5266.0, 5712.0, 5466.0, 5582.0, 5355.0, 5448.0, 5390.0, 5722.0, 5294.0, 5380.0, 5625.0, 5552.0, 5613.0, 5459.0, 5670.0, 5471.0, 5657.0, 5485.0, 5720.0, 5604.0, 5536.0, 5464.0, 5504.0, 5631.0, 5660.0, 5385.0, 5320.0, 5555.0, 5718.0, 5623.0, 5619.0, 5397.0, 5492.0, 5522.0, 5501.0, 5407.0, 5354.0, 5622.0, 5367.0, 5465.0, 5603.0, 5513.0, 5305.0, 5293.0, 5673.0, 5527.0, 5416.0, 5392.0, 5445.0, 5280.0, 5707.0, 5717.0, 5290.0, 5281.0, 5255.0, 5518.0, 5709.0, 5410.0, 5283.0, 5361.0, 5468.0, 5621.0, 5275.0, 5548.0, 5483.0, 5344.0, 5535.0, 5721.0, 5264.0, 5314.0, 5693.0, 5713.0, 5325.0, 5315.0, 5377.0, 5414.0, 5288.0, 5456.0, 5642.0, 5331.0, 5595.0, 5350.0, 5576.0, 5495.0, 5412.0, 5338.0, 5572.0, 5287.0, 5520.0, 5310.0, 5675.0, 5663.0, 5474.0, 5498.0
15	5270	9	1	333	1	5583.0, 5398.0, 5592.0, 5328.0, 5318.0, 5444.0, 5360.0, 5428.0, 5540.0, 5685.0, 5457.0, 5548.0, 5423.0, 5481.0, 5533.0, 5674.0, 5581.0, 5373.0, 5717.0, 5287.0, 5291.0, 5403.0, 5271.0, 5502.0, 5673.0, 5317.0, 5448.0, 5299.0, 5367.0, 5305.0, 5688.0, 5716.0, 5432.0, 5348.0, 5530.0, 5266.0, 5257.0, 5301.0, 5509.0, 5599.0, 5675.0, 5588.0, 5534.0, 5355.0, 5467.0, 5712.0, 5536.0, 5628.0, 5617.0, 5353.0, 5698.0, 5452.0, 5498.0, 5613.0, 5273.0, 5653.0, 5356.0, 5389.0, 5386.0, 5632.0, 5682.0, 5662.0, 5589.0, 5407.0, 5495.0,

						5616.0, 5418.0, 5519.0, 5620.0, 5430.0, 5659.0, 5643.0, 5342.0, 5256.0, 5471.0, 5600.0, 5387.0, 5456.0, 5425.0, 5596.0, 5264.0, 5575.0, 5352.0, 5334.0, 5379.0, 5501.0, 5331.0, 5622.0, 5388.0, 5684.0, 5514.0, 5595.0, 5647.0, 5488.0, 5359.0, 5576.0, 5436.0, 5611.0, 5670.0, 5706.0
16	5270	9	1	333	1	5698.0, 5425.0, 5603.0, 5266.0, 5285.0, 5311.0, 5391.0, 5265.0, 5297.0, 5345.0, 5334.0, 5651.0, 5685.0, 5429.0, 5516.0, 5292.0, 5532.0, 5601.0, 5467.0, 5430.0, 5486.0, 5567.0, 5614.0, 5303.0, 5290.0, 5452.0, 5700.0, 5657.0, 5653.0, 5568.0, 5375.0, 5299.0, 5337.0, 5541.0, 5440.0, 5490.0, 5669.0, 5319.0, 5683.0, 5652.0, 5482.0, 5489.0, 5386.0, 5288.0, 5585.0, 5686.0, 5612.0, 5547.0, 5658.0, 5626.0, 5251.0, 5412.0, 5649.0, 5510.0, 5560.0, 5457.0, 5358.0, 5366.0, 5553.0, 5260.0, 5478.0, 5339.0, 5513.0, 5394.0, 5573.0, 5694.0, 5421.0, 5300.0, 5257.0, 5273.0, 5383.0, 5461.0, 5401.0, 5654.0, 5350.0, 5493.0, 5665.0, 5498.0, 5407.0, 5419.0, 5593.0, 5524.0, 5418.0, 5262.0, 5318.0, 5364.0, 5475.0, 5331.0, 5399.0, 5674.0, 5622.0, 5504.0, 5501.0, 5426.0, 5255.0, 5413.0, 5699.0, 5558.0, 5723.0, 5515.0
17	5270	9	1	333	1	5622.0, 5485.0, 5365.0, 5340.0, 5310.0, 5327.0, 5572.0, 5318.0, 5599.0, 5644.0, 5669.0, 5427.0, 5309.0, 5314.0, 5568.0, 5511.0, 5279.0, 5319.0, 5277.0, 5651.0, 5447.0, 5559.0, 5428.0, 5467.0, 5474.0, 5571.0, 5643.0, 5665.0, 5382.0, 5504.0, 5386.0, 5713.0, 5293.0, 5689.0, 5288.0, 5483.0, 5496.0, 5323.0, 5631.0, 5604.0, 5370.0, 5325.0, 5400.0, 5561.0, 5445.0, 5393.0, 5719.0, 5706.0, 5576.0, 5617.0, 5341.0, 5369.0, 5306.0, 5502.0, 5682.0, 5605.0, 5283.0, 5406.0, 5342.0, 5501.0, 5412.0, 5332.0, 5524.0, 5273.0, 5584.0, 5675.0, 5623.0, 5440.0, 5457.0, 5324.0, 5454.0, 5372.0, 5611.0, 5554.0, 5724.0, 5626.0, 5668.0, 5695.0, 5705.0, 5681.0, 5685.0, 5261.0, 5639.0, 5282.0, 5548.0, 5697.0, 5632.0, 5294.0, 5615.0, 5671.0, 5459.0, 5409.0, 5458.0, 5420.0, 5391.0, 5515.0, 5492.0, 5418.0, 5674.0, 5432.0
18	5270	9	1	333	1	5627.0, 5422.0, 5510.0, 5400.0, 5292.0, 5425.0, 5594.0, 5492.0, 5495.0, 5690.0, 5565.0, 5572.0, 5321.0, 5426.0, 5477.0, 5358.0, 5480.0, 5458.0, 5363.0, 5508.0, 5484.0, 5558.0, 5287.0, 5643.0, 5459.0, 5355.0, 5284.0, 5413.0, 5576.0, 5342.0, 5528.0, 5472.0, 5337.0, 5257.0, 5258.0, 5408.0, 5370.0, 5390.0, 5580.0, 5610.0, 5437.0, 5614.0, 5275.0, 5316.0, 5387.0, 5629.0, 5613.0, 5587.0, 5269.0, 5283.0, 5540.0, 5612.0, 5679.0, 5545.0, 5302.0, 5491.0, 5325.0, 5262.0, 5344.0, 5701.0, 5710.0, 5711.0, 5595.0, 5608.0, 5709.0,

						5348.0, 5640.0, 5360.0, 5382.0, 5310.0, 5326.0, 5322.0, 5338.0, 5686.0, 5526.0, 5285.0, 5714.0, 5525.0, 5663.0, 5490.0, 5577.0, 5373.0, 5286.0, 5625.0, 5600.0, 5672.0, 5498.0, 5446.0, 5634.0, 5416.0, 5270.0, 5546.0, 5721.0, 5486.0, 5252.0, 5365.0, 5620.0, 5465.0, 5657.0, 5642.0
19	5270	9	1	333	1	5561.0, 5501.0, 5339.0, 5559.0, 5300.0, 5288.0, 5306.0, 5281.0, 5427.0, 5656.0, 5379.0, 5675.0, 5398.0, 5588.0, 5252.0, 5530.0, 5669.0, 5606.0, 5396.0, 5531.0, 5550.0, 5641.0, 5268.0, 5618.0, 5493.0, 5429.0, 5596.0, 5651.0, 5353.0, 5446.0, 5394.0, 5567.0, 5512.0, 5620.0, 5362.0, 5445.0, 5485.0, 5716.0, 5696.0, 5410.0, 5710.0, 5720.0, 5484.0, 5366.0, 5444.0, 5490.0, 5515.0, 5263.0, 5541.0, 5658.0, 5311.0, 5388.0, 5509.0, 5261.0, 5632.0, 5692.0, 5295.0, 5660.0, 5578.0, 5409.0, 5554.0, 5267.0, 5565.0, 5533.0, 5536.0, 5433.0, 5416.0, 5323.0, 5412.0, 5511.0, 5537.0, 5615.0, 5627.0, 5538.0, 5642.0, 5676.0, 5419.0, 5547.0, 5539.0, 5621.0, 5546.0, 5497.0, 5640.0, 5687.0, 5535.0, 5500.0, 5420.0, 5697.0, 5481.0, 5527.0, 5378.0, 5346.0, 5604.0, 5361.0, 5415.0, 5423.0, 5686.0, 5575.0, 5345.0, 5513.0
20	5270	9	1	333	1	5438.0, 5623.0, 5602.0, 5477.0, 5427.0, 5703.0, 5558.0, 5280.0, 5504.0, 5255.0, 5466.0, 5485.0, 5396.0, 5415.0, 5550.0, 5379.0, 5425.0, 5256.0, 5434.0, 5682.0, 5647.0, 5681.0, 5507.0, 5570.0, 5351.0, 5463.0, 5578.0, 5490.0, 5680.0, 5330.0, 5603.0, 5335.0, 5282.0, 5524.0, 5700.0, 5650.0, 5308.0, 5301.0, 5286.0, 5307.0, 5461.0, 5584.0, 5564.0, 5435.0, 5407.0, 5378.0, 5431.0, 5290.0, 5521.0, 5305.0, 5374.0, 5718.0, 5695.0, 5492.0, 5646.0, 5572.0, 5455.0, 5678.0, 5594.0, 5311.0, 5297.0, 5534.0, 5291.0, 5392.0, 5655.0, 5658.0, 5642.0, 5479.0, 5539.0, 5320.0, 5422.0, 5565.0, 5348.0, 5458.0, 5722.0, 5607.0, 5517.0, 5495.0, 5556.0, 5707.0, 5298.0, 5387.0, 5601.0, 5412.0, 5416.0, 5370.0, 5314.0, 5260.0, 5527.0, 5357.0, 5413.0, 5654.0, 5531.0, 5283.0, 5487.0, 5588.0, 5532.0, 5724.0, 5421.0, 5371.0
21	5270	9	1	333	0	/
22	5270	9	1	333	1	5602.0, 5548.0, 5547.0, 5287.0, 5281.0, 5668.0, 5700.0, 5715.0, 5707.0, 5661.0, 5691.0, 5688.0, 5706.0, 5423.0, 5254.0, 5601.0, 5432.0, 5482.0, 5270.0, 5560.0, 5330.0, 5398.0, 5523.0, 5331.0, 5618.0, 5413.0, 5279.0, 5591.0, 5462.0, 5480.0, 5658.0, 5503.0, 5657.0, 5581.0, 5517.0, 5419.0, 5576.0, 5654.0, 5604.0, 5444.0, 5489.0, 5457.0, 5630.0, 5358.0, 5497.0, 5718.0, 5425.0, 5451.0, 5534.0, 5498.0, 5334.0, 5518.0, 5388.0, 5428.0, 5637.0, 5612.0, 5379.0, 5492.0, 5491.0, 5442.0,

						5577.0, 5539.0, 5677.0, 5256.0, 5648.0, 5641.0, 5453.0, 5408.0, 5417.0, 5313.0, 5596.0, 5360.0, 5702.0, 5436.0, 5443.0, 5570.0, 5704.0, 5713.0, 5447.0, 5614.0, 5490.0, 5506.0, 5603.0, 5429.0, 5510.0, 5557.0, 5390.0, 5323.0, 5284.0, 5586.0, 5407.0, 5631.0, 5389.0, 5723.0, 5584.0, 5403.0, 5568.0, 5540.0, 5456.0, 5583.0
23	5270	9	1	333	1	5716.0, 5297.0, 5496.0, 5361.0, 5370.0, 5621.0, 5393.0, 5384.0, 5491.0, 5530.0, 5357.0, 5478.0, 5558.0, 5259.0, 5674.0, 5275.0, 5498.0, 5542.0, 5661.0, 5469.0, 5269.0, 5441.0, 5483.0, 5684.0, 5431.0, 5646.0, 5628.0, 5586.0, 5396.0, 5561.0, 5623.0, 5659.0, 5293.0, 5522.0, 5377.0, 5254.0, 5427.0, 5373.0, 5504.0, 5501.0, 5627.0, 5332.0, 5283.0, 5648.0, 5529.0, 5513.0, 5314.0, 5688.0, 5428.0, 5550.0, 5340.0, 5574.0, 5358.0, 5341.0, 5410.0, 5325.0, 5395.0, 5439.0, 5484.0, 5366.0, 5528.0, 5624.0, 5676.0, 5680.0, 5512.0, 5580.0, 5696.0, 5282.0, 5488.0, 5392.0, 5617.0, 5677.0, 5608.0, 5693.0, 5493.0, 5686.0, 5605.0, 5287.0, 5662.0, 5591.0, 5372.0, 5641.0, 5471.0, 5351.0, 5425.0, 5700.0, 5547.0, 5575.0, 5525.0, 5404.0, 5499.0, 5417.0, 5584.0, 5717.0, 5507.0, 5391.0, 5615.0, 5344.0, 5327.0, 5406.0
24	5270	9	1	333	1	5256.0, 5536.0, 5336.0, 5409.0, 5345.0, 5546.0, 5566.0, 5606.0, 5266.0, 5349.0, 5340.0, 5318.0, 5268.0, 5643.0, 5443.0, 5448.0, 5275.0, 5559.0, 5568.0, 5720.0, 5645.0, 5497.0, 5306.0, 5280.0, 5549.0, 5474.0, 5615.0, 5603.0, 5612.0, 5663.0, 5492.0, 5417.0, 5654.0, 5535.0, 5551.0, 5614.0, 5356.0, 5572.0, 5261.0, 5279.0, 5430.0, 5674.0, 5696.0, 5716.0, 5414.0, 5619.0, 5635.0, 5518.0, 5507.0, 5319.0, 5594.0, 5607.0, 5565.0, 5384.0, 5444.0, 5485.0, 5523.0, 5460.0, 5404.0, 5341.0, 5298.0, 5625.0, 5623.0, 5613.0, 5570.0, 5517.0, 5598.0, 5685.0, 5638.0, 5521.0, 5558.0, 5647.0, 5695.0, 5700.0, 5254.0, 5574.0, 5697.0, 5482.0, 5640.0, 5577.0, 5669.0, 5296.0, 5648.0, 5477.0, 5599.0, 5610.0, 5488.0, 5542.0, 5311.0, 5571.0, 5294.0, 5686.0, 5428.0, 5339.0, 5658.0, 5252.0, 5668.0, 5655.0, 5308.0, 5406.0
25	5270	9	1	333	1	5545.0, 5677.0, 5327.0, 5405.0, 5510.0, 5332.0, 5393.0, 5433.0, 5666.0, 5313.0, 5356.0, 5608.0, 5398.0, 5629.0, 5524.0, 5395.0, 5468.0, 5506.0, 5661.0, 5380.0, 5351.0, 5538.0, 5630.0, 5555.0, 5600.0, 5481.0, 5458.0, 5421.0, 5618.0, 5336.0, 5348.0, 5612.0, 5344.0, 5569.0, 5610.0, 5301.0, 5275.0, 5581.0, 5684.0, 5654.0, 5429.0, 5582.0, 5631.0, 5363.0, 5537.0, 5402.0, 5404.0, 5670.0, 5508.0, 5696.0, 5259.0, 5325.0, 5252.0, 5372.0, 5566.0, 5357.0, 5464.0, 5489.0, 5505.0, 5370.0,

						5695.0, 5681.0, 5484.0, 5624.0, 5444.0, 5628.0, 5397.0, 5534.0, 5291.0, 5443.0, 5705.0, 5487.0, 5663.0, 5504.0, 5358.0, 5294.0, 5697.0, 5326.0, 5657.0, 5664.0, 5606.0, 5365.0, 5269.0, 5396.0, 5435.0, 5686.0, 5305.0, 5457.0, 5557.0, 5572.0, 5474.0, 5529.0, 5391.0, 5685.0, 5635.0, 5454.0, 5432.0, 5367.0, 5341.0, 5616.0
26	5270	9	1	333	1	5415.0, 5602.0, 5547.0, 5365.0, 5339.0, 5335.0, 5540.0, 5338.0, 5468.0, 5558.0, 5398.0, 5655.0, 5400.0, 5696.0, 5571.0, 5533.0, 5515.0, 5565.0, 5276.0, 5612.0, 5356.0, 5253.0, 5626.0, 5555.0, 5283.0, 5618.0, 5649.0, 5561.0, 5272.0, 5709.0, 5577.0, 5488.0, 5610.0, 5694.0, 5500.0, 5643.0, 5661.0, 5642.0, 5372.0, 5719.0, 5385.0, 5269.0, 5464.0, 5318.0, 5407.0, 5617.0, 5632.0, 5323.0, 5374.0, 5526.0, 5293.0, 5371.0, 5569.0, 5686.0, 5716.0, 5296.0, 5695.0, 5255.0, 5496.0, 5596.0, 5392.0, 5597.0, 5382.0, 5429.0, 5703.0, 5409.0, 5641.0, 5295.0, 5644.0, 5491.0, 5428.0, 5718.0, 5360.0, 5599.0, 5397.0, 5639.0, 5386.0, 5377.0, 5439.0, 5594.0, 5288.0, 5330.0, 5309.0, 5546.0, 5520.0, 5724.0, 5413.0, 5487.0, 5675.0, 5262.0, 5627.0, 5513.0, 5456.0, 5635.0, 5506.0, 5452.0, 5472.0, 5668.0, 5523.0, 5423.0
27	5270	9	1	333	1	5319.0, 5667.0, 5380.0, 5466.0, 5431.0, 5444.0, 5517.0, 5361.0, 5576.0, 5347.0, 5428.0, 5468.0, 5574.0, 5457.0, 5360.0, 5679.0, 5270.0, 5367.0, 5589.0, 5320.0, 5311.0, 5465.0, 5524.0, 5688.0, 5510.0, 5699.0, 5389.0, 5485.0, 5464.0, 5690.0, 5597.0, 5425.0, 5490.0, 5370.0, 5687.0, 5328.0, 5629.0, 5331.0, 5680.0, 5648.0, 5541.0, 5346.0, 5708.0, 5355.0, 5512.0, 5356.0, 5447.0, 5523.0, 5263.0, 5539.0, 5349.0, 5584.0, 5410.0, 5344.0, 5656.0, 5418.0, 5348.0, 5545.0, 5299.0, 5637.0, 5703.0, 5640.0, 5548.0, 5449.0, 5685.0, 5718.0, 5507.0, 5532.0, 5301.0, 5354.0, 5724.0, 5395.0, 5643.0, 5607.0, 5386.0, 5398.0, 5310.0, 5480.0, 5478.0, 5514.0, 5260.0, 5352.0, 5483.0, 5399.0, 5534.0, 5525.0, 5323.0, 5407.0, 5254.0, 5357.0, 5722.0, 5714.0, 5317.0, 5609.0, 5350.0, 5471.0, 5454.0, 5316.0, 5281.0, 5487.0
28	5270	9	1	333	1	5698.0, 5284.0, 5457.0, 5352.0, 5460.0, 5452.0, 5712.0, 5709.0, 5491.0, 5580.0, 5344.0, 5263.0, 5441.0, 5321.0, 5553.0, 5479.0, 5323.0, 5523.0, 5487.0, 5659.0, 5700.0, 5296.0, 5382.0, 5607.0, 5663.0, 5642.0, 5535.0, 5475.0, 5711.0, 5566.0, 5724.0, 5341.0, 5662.0, 5286.0, 5489.0, 5599.0, 5674.0, 5506.0, 5269.0, 5402.0, 5690.0, 5502.0, 5570.0, 5463.0, 5431.0, 5414.0, 5251.0, 5267.0, 5315.0, 5681.0, 5364.0, 5551.0, 5357.0, 5316.0, 5428.0, 5499.0, 5412.0, 5632.0, 5673.0, 5567.0,

						5576.0, 5346.0, 5530.0, 5311.0, 5274.0, 5640.0, 5562.0, 5554.0, 5586.0, 5271.0, 5592.0, 5319.0, 5439.0, 5476.0, 5490.0, 5518.0, 5437.0, 5621.0, 5358.0, 5590.0, 5306.0, 5610.0, 5528.0, 5388.0, 5462.0, 5279.0, 5254.0, 5426.0, 5606.0, 5484.0, 5565.0, 5557.0, 5334.0, 5578.0, 5637.0, 5692.0, 5464.0, 5675.0, 5410.0, 5612.0
29	5270	9	1	333	1	5410.0, 5338.0, 5283.0, 5252.0, 5716.0, 5310.0, 5681.0, 5606.0, 5366.0, 5464.0, 5362.0, 5440.0, 5451.0, 5485.0, 5335.0, 5678.0, 5714.0, 5309.0, 5423.0, 5589.0, 5394.0, 5697.0, 5613.0, 5527.0, 5369.0, 5544.0, 5316.0, 5689.0, 5376.0, 5285.0, 5428.0, 5683.0, 5646.0, 5659.0, 5342.0, 5661.0, 5315.0, 5301.0, 5594.0, 5684.0, 5526.0, 5639.0, 5610.0, 5272.0, 5455.0, 5352.0, 5431.0, 5416.0, 5679.0, 5287.0, 5385.0, 5304.0, 5282.0, 5598.0, 5518.0, 5625.0, 5417.0, 5512.0, 5374.0, 5327.0, 5494.0, 5477.0, 5648.0, 5344.0, 5534.0, 5650.0, 5480.0, 5404.0, 5288.0, 5487.0, 5538.0, 5270.0, 5438.0, 5569.0, 5318.0, 5503.0, 5541.0, 5300.0, 5663.0, 5662.0, 5702.0, 5350.0, 5552.0, 5536.0, 5400.0, 5492.0, 5307.0, 5612.0, 5365.0, 5401.0, 5685.0, 5279.0, 5482.0, 5319.0, 5628.0, 5484.0, 5419.0, 5471.0, 5384.0, 5546.0
30	5270	9	1	333	1	5615.0, 5294.0, 5321.0, 5524.0, 5547.0, 5398.0, 5487.0, 5353.0, 5438.0, 5307.0, 5340.0, 5271.0, 5443.0, 5489.0, 5551.0, 5391.0, 5720.0, 5364.0, 5464.0, 5546.0, 5327.0, 5530.0, 5318.0, 5300.0, 5514.0, 5344.0, 5417.0, 5312.0, 5373.0, 5548.0, 5538.0, 5674.0, 5459.0, 5302.0, 5629.0, 5423.0, 5310.0, 5598.0, 5263.0, 5611.0, 5558.0, 5289.0, 5365.0, 5515.0, 5550.0, 5667.0, 5593.0, 5579.0, 5366.0, 5661.0, 5457.0, 5420.0, 5299.0, 5532.0, 5497.0, 5554.0, 5533.0, 5641.0, 5334.0, 5371.0, 5693.0, 5703.0, 5295.0, 5541.0, 5557.0, 5330.0, 5285.0, 5414.0, 5323.0, 5516.0, 5591.0, 5253.0, 5602.0, 5623.0, 5631.0, 5419.0, 5502.0, 5575.0, 5499.0, 5469.0, 5596.0, 5301.0, 5697.0, 5368.0, 5374.0, 5446.0, 5671.0, 5359.0, 5600.0, 5355.0, 5297.0, 5496.0, 5480.0, 5612.0, 5261.0, 5269.0, 5527.0, 5722.0, 5308.0, 5520.0

80MHz,

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	100%	60%	pass
Type 1B	15	100%		
Type 2	30	100%	60%	Pass
Type 3	30	96.7%	60%	Pass
Type 4	30	90%	60%	Pass
Aggregate(Type1 to 4)	120	96.7 %	80%	Pass
Type 5	30	90%	97%	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	63	1	838	1
2	5290	83	1	638	1
3	5290	65	1	818	1
4	5290	67	1	798	1
5	5290	70	1	758	1
6	5290	89	1	598	1
7	5290	58	1	918	1
8	5290	68	1	778	1
9	5290	95	1	558	1
10	5290	92	1	578	1
11	5290	99	1	538	1
12	5290	62	1	858	1
13	5290	78	1	678	1
14	5290	76	1	698	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	26	1	2057	1
2	5290	28	1	1946	1
3	5290	35	1	1514	1
4	5290	65	1	813	1
5	5290	88	1	605	1
6	5290	25	1	2185	1
7	5290	29	1	1849	1
8	5290	21	1	2588	1
9	5290	75	1	711	1
10	5290	97	1	549	1
11	5290	25	1	2187	1
12	5290	23	1	2355	1
13	5290	28	1	1950	1
14	5290	25	1	2184	1
15	5290	18	1	2985	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	5290	23	4.8	227	1
2	5290	29	4.1	158	1
3	5290	27	3.5	215	1
4	5290	26	2.1	224	1
5	5290	25	3.6	219	1
6	5290	27	3.7	196	1
7	5290	28	4.3	203	1
8	5290	28	3.1	161	1
9	5290	26	1.7	200	1
10	5290	29	2.9	186	1
11	5290	29	1.5	215	1
12	5290	29	1	175	1
13	5290	25	1.5	204	1
14	5290	23	1.5	175	1
15	5290	23	4.6	181	1
16	5290	29	4.7	184	1
17	5290	29	5	214	1
18	5290	23	4.6	208	1
19	5290	27	3.3	150	1
20	5290	28	1.3	171	1
21	5290	26	1.7	199	1
22	5290	27	4	179	1
23	5290	24	5	194	1
24	5290	24	1.7	183	1
25	5290	28	4.7	226	1
26	5290	26	1.4	191	1
27	5290	27	1.7	217	1
28	5290	23	1.6	171	1
29	5290	26	3.1	177	1
30	5290	27	4	225	1
Detection Percentage: 100 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	18	10	360	1
2	5290	17	8.4	487	1
3	5290	17	8.9	218	0
4	5290	17	8.1	457	1
5	5290	16	8.7	254	1
6	5290	18	7.8	214	1
7	5290	17	7.6	411	1
8	5290	18	7	325	1
9	5290	16	6.5	474	1
10	5290	16	9.9	289	1
11	5290	17	6.6	466	1
12	5290	18	6.8	223	1
13	5290	16	7.3	474	1
14	5290	17	7.2	406	1
15	5290	18	7.9	274	1
16	5290	17	9.2	433	1
17	5290	17	8	226	1
18	5290	18	6	418	1
19	5290	17	7.2	420	1
20	5290	16	9.2	228	1
21	5290	17	10	411	1
22	5290	18	7.1	370	1
23	5290	18	8	442	1
24	5290	18	8.1	396	1
25	5290	18	7.7	334	1
26	5290	17	8.6	415	1
27	5290	17	7.4	401	1
28	5290	18	9.7	392	1
29	5290	16	6.2	427	1
30	5290	18	8.9	314	1
Detection Percentage: 96.7 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	15	13.4	316	1
2	5290	12	12.6	493	1
3	5290	12	17.6	258	1
4	5290	15	14.3	260	1
5	5290	16	11.3	286	1
6	5290	16	19.7	216	0
7	5290	15	11.6	286	1
8	5290	12	15.3	319	1
9	5290	15	19.1	455	1
10	5290	15	19	466	1
11	5290	15	17	334	1
12	5290	13	19.1	241	1
13	5290	15	17.1	263	1
14	5290	15	15	276	1
15	5290	16	17.8	245	1
16	5290	16	17.8	490	1
17	5290	13	20	325	1
18	5290	14	13.5	301	1
19	5290	16	14.3	238	0
20	5290	13	17.8	385	1
21	5290	16	15.8	267	1
22	5290	12	16.2	351	1
23	5290	14	19.7	213	1
24	5290	15	17.1	343	1
25	5290	12	13.8	304	0
26	5290	16	13.3	323	1
27	5290	14	18.8	270	1
28	5290	15	17.8	361	1
29	5290	16	18.5	336	1
30	5290	14	13.5	357	1
Detection Percentage: 90 % (>60%)					

Radar Type 5 Case1 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	11	63.2	1166	1259	0.078348	
1	1	11	98.6	/	/	0.767396	
2	2	11	96.3	1081	/	1.599133	
3	1	11	86.4	/	/	2.462951	
4	2	11	83.6	1256	/	2.815681	
5	1	11	97.7	/	/	3.286856	
6	1	11	64.9	/	/	3.887237	
7	2	11	50.5	1898	/	4.633499	
8	1	11	68.1	/	/	5.666831	
9	2	11	61.6	1598	/	6.234858	1
10	1	11	90.9	/	/	6.700678	
11	2	11	61.9	1107	/	7.373707	
12	2	11	55	1254	/	7.857055	
13	1	11	61.3	/	/	8.394184	
14	2	11	66.1	1679	/	9.282928	
15	2	11	90.2	1173	/	9.528525	
16	2	11	71	1623	/	10.681783	
17	2	11	67.1	1303	/	11.218981	
18	2	11	51.3	1036	/	11.510619	

Statistics 2 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	16	80.8	/	/	0.198755	
1	1	16	72.7	/	/	1.280765	
2	2	16	87.2	1469	/	2.469518	
3	3	16	71.5	1953	1476	3.194079	
4	1	16	90	/	/	3.686783	
5	2	16	54.7	1576	/	4.863095	
6	2	16	56.6	1881	/	5.843104	
7	2	16	92.8	1341	/	6.458658	1
8	2	16	57.8	1690	/	7.428576	
9	2	16	75.8	1353	/	8.420888	
10	1	16	58.1	/	/	8.968485	
11	3	16	81.8	1050	1952	9.703381	
12	1	16	50.6	/	/	10.300903	
13	2	16	54.9	1996	/	11.241526	

Statistics 3 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	7	89.8	1545	/	0.252776	1
1	2	7	95	1098	/	1.423415	
2	2	7	88.9	1580	/	3.052387	
3	2	7	82.5	1554	/	4.050147	
4	1	7	66.8	/	/	6.479586	
5	2	7	82.8	1977	/	7.115438	
6	2	7	60	1538	/	9.074868	
7	2	7	92.7	1087	/	10.36032	
8	1	7	92.8	/	/	11.11805	

Statistics 4 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	7	75.4	1960	/	0.37659	1
1	2	7	74.5	1028	/	0.842912	
2	3	7	70.9	1305	1664	1.875208	
3	1	7	56.8	/	/	2.848894	
4	2	7	79.4	1139	/	3.517685	
5	3	7	65.7	1096	1323	4.048994	
6	2	7	66.9	1043	/	4.681813	
7	1	7	52.6	/	/	5.33628	
8	3	7	93.7	1309	1689	6.375691	
9	2	7	89.3	1794	/	6.91474	
10	2	7	88.3	1611	/	7.883012	
11	2	7	60.1	1096	/	8.441571	
12	3	7	52.8	1555	1326	9.629077	
13	1	7	64.9	/	/	9.793927	
14	3	7	53.4	1228	1160	11.066434	
15	2	7	52.1	1645	/	11.442592	

Statistics 5 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	15	81.2	1893	/	0.233023	1
1	2	15	79.3	1269	/	2.668304	
2	2	15	98.5	1631	/	3.223546	
3	3	15	95.8	1838	1148	5.380151	
4	3	15	94	1492	1559	6.306287	
5	1	15	56.1	/	/	8.509896	
6	1	15	93.4	/	/	10.263928	
7	2	15	91.9	1788	/	11.66947	

Statistics 6 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	15	61.4	1815	/	0.508097	1
1	2	15	85.9	1496	/	1.428437	
2	1	15	91.1	/	/	2.389249	
3	2	15	89.2	1700	/	2.509722	
4	3	15	58.6	1585	1126	3.446638	
5	2	15	93	1948	/	4.429982	
6	2	15	60.2	1118	/	5.509829	
7	2	15	96.9	1256	/	5.636205	
8	2	15	67.9	1580	/	6.511175	
9	1	15	57.2	/	/	7.793121	
10	3	15	81.6	1797	1408	8.415088	
11	2	15	87.8	1662	/	9.366738	
12	2	15	98.3	1836	/	9.736581	
13	3	15	92.3	1314	1295	10.579217	
14	2	15	94.5	1846	/	11.263908	

Statistics 7 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	15	75.2	1488	/	0.203613	0
1	2	15	76.2	1264	/	2.072769	
2	1	15	68.9	/	/	3.5947	
3	3	15	69.6	1428	1209	5.047923	
4	1	15	73	/	/	6.34919	
5	2	15	96.7	1108	/	8.753956	
6	2	15	91.4	1485	/	9.306554	
7	2	15	76.9	1919	/	10.591508	

Statistics 8 (ChirpCenter Frequency: 5290MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	16	75	/	/	0.272746	1
1	2	16	73.5	1850	/	1.242205	
2	2	16	60.5	1399	/	1.989181	
3	2	16	97.3	1513	/	2.437097	
4	2	16	99.3	1966	/	2.873616	
5	2	16	93.6	1173	/	3.939005	
6	2	16	91.1	1796	/	4.301786	
7	2	16	74.5	1282	/	5.389552	
8	2	16	89.1	1529	/	5.819916	
9	2	16	62.9	1442	/	6.397092	
10	2	16	53.7	1249	/	7.679463	
11	2	16	76.2	1646	/	7.843154	
12	3	16	86.1	1612	1955	8.516178	
13	2	16	71.6	1481	/	9.439903	
14	3	16	98.1	1521	1133	10.379683	
15	2	16	64.5	1947	/	11.163926	
16	2	16	57	1815	/	11.331607	

Statistics 9 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	8	61.2	/	/	0.02864	1
1	2	8	69.3	1660	/	1.203855	
2	2	8	67.3	1213	/	1.837047	
3	1	8	71.7	/	/	2.499222	
4	3	8	70.2	1097	1666	3.0769	
5	2	8	81.2	1198	/	3.791839	
6	3	8	81	1688	1197	4.604048	
7	1	8	70.5	/	/	4.810237	
8	3	8	59.4	1189	1894	5.822286	
9	2	8	98.3	1482	/	6.619685	
10	1	8	80.2	/	/	7.3152	
11	2	8	86.9	1822	/	7.556155	
12	3	8	57	1872	1371	8.395246	
13	3	8	64.4	1214	1247	9.030238	
14	1	8	70.4	/	/	9.611879	
15	1	8	52.7	/	/	10.111265	
16	1	8	62.4	/	/	11.33048	
17	2	8	96.8	1954	/	11.895409	

Statistics 10 (ChirpCenter Frequency: 5290 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	13	94.5	1404	/	0.173626	1
1	3	13	89.8	1485	1192	1.514081	
2	1	13	57.9	/	/	2.541756	
3	3	13	59.4	1270	1441	3.415154	
4	1	13	79.7	/	/	4.118577	
5	2	13	70.8	1025	/	4.838848	
6	2	13	65.7	1124	/	5.866959	
7	3	13	87.3	1580	1456	6.139638	
8	3	13	67.4	1196	1974	7.07505	
9	1	13	75.1	/	/	7.930722	
10	1	13	76.4	/	/	9.329727	
11	2	13	52.1	1117	/	9.677524	
12	2	13	75.7	1268	/	10.934932	
13	1	13	74.1	/	/	11.750083	

Radar Type 5 Case2 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5256 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	10	97.5	/	/	0.719255	
1	1	10	51.6	/	/	1.305329	
2	2	10	97.4	1153	/	2.143082	
3	2	10	68.4	1206	/	2.714452	
4	2	10	65.3	1960	/	3.271263	
5	3	10	67.6	1417	1787	4.205281	
6	2	10	52.7	1042	/	5.153914	
7	2	10	86.2	1778	/	6.278126	1
8	1	10	82.2	/	/	7.048949	
9	3	10	75	1796	1089	7.527578	
10	1	10	64.8	/	/	8.61261	
11	2	10	70.5	1243	/	9.367634	
12	2	10	51.2	1022	/	9.665676	
13	2	10	56.1	1983	/	10.77545	
14	1	10	81.9	/	/	11.573745	

Statistics 2 (ChirpCenter Frequency: 5257 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	12	99.3	1503	/	0.076763	
1	1	12	67.3	/	/	1.227858	
2	3	12	62.4	1313	1422	1.755759	
3	3	12	74.9	1906	1200	2.596376	
4	3	12	66.4	1863	1503	3.488119	
5	2	12	52.1	1013	/	3.938516	
6	3	12	96.3	1579	1228	4.777867	
7	3	12	92.3	1695	1427	5.448292	
8	2	12	96.8	1271	/	5.777889	1
9	2	12	56.8	1194	/	7.027155	
10	3	12	76.2	1165	1817	7.390055	
11	2	12	69.2	1579	/	8.189194	
12	2	12	54.5	1914	/	8.809004	
13	2	12	95.6	1059	/	9.828583	
14	2	12	84.4	1772	/	10.073082	
15	3	12	82.7	1427	1714	11.021086	
16	2	12	64.4	1430	/	11.852742	

Statistics 3 (ChirpCenter Frequency: 5256 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	55.6	1586	/	0.370357	1
1	2	11	79.6	1536	/	1.092754	
2	3	11	58.5	1316	1019	1.462459	
3	1	11	85.5	/	/	2.234521	
4	2	11	80.8	1906	/	2.787394	
5	1	11	67.2	/	/	3.264994	
6	1	11	68.8	/	/	3.68742	
7	1	11	64.8	/	/	4.636335	
8	3	11	62.5	1804	1028	5.161019	
9	2	11	80.2	1002	/	5.665834	
10	1	11	79.2	/	/	6.400749	
11	3	11	79.2	1171	1051	7.137853	
12	3	11	56.1	1382	1213	7.426598	
13	2	11	97.8	1272	/	8.265814	
14	2	11	89.6	1522	/	8.578872	
15	1	11	76	/	/	9.329989	
16	3	11	96	1977	1832	9.600459	
17	3	11	78.8	1657	1819	10.713687	
18	2	11	88.6	1646	/	10.912756	
19	2	11	51.1	1100	/	11.826859	

Statistics 4 (ChirpCenter Frequency: 5259 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	17	86.9	1142	/	0.611574	1
1	2	17	84.8	1462	/	1.048472	
2	3	17	87.6	1704	1733	2.549957	
3	3	17	62	1477	1962	3.242211	
4	2	17	85.4	1423	/	4.25032	
5	2	17	69.1	1924	/	5.413148	
6	1	17	88.2	/	/	6.266358	
7	1	17	98.5	/	/	6.668184	
8	3	17	95.4	1278	1249	8.159569	
9	3	17	59.3	1431	1965	8.952435	
10	1	17	56.3	/	/	9.324331	
11	1	17	90.6	/	/	10.275363	
12	2	17	72	1416	/	11.458837	

Statistics 5 (ChirpCenter Frequency: 5256 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	10	85.3	/	/	0.301029	
1	1	10	79.7	/	/	1.45987	
2	2	10	67.2	1851	/	1.645856	
3	2	10	82.3	1135	/	2.416845	
4	2	10	97.9	1369	/	3.295145	
5	1	10	78.8	/	/	4.488861	
6	3	10	87.5	1450	1315	5.295613	
7	2	10	63.5	1955	/	5.89276	1
8	2	10	69.3	1183	/	6.457859	
9	2	10	85.7	1386	/	7.205567	
10	1	10	95.5	/	/	8.587222	
11	3	10	97.8	1211	1718	9.068974	
12	2	10	77.1	1302	/	10.384876	
13	2	10	87.9	1542	/	11.134091	
14	3	10	65.5	1850	1108	11.383475	

Statistics 6 (ChirpCenter Frequency: 5254 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	5	67.9	1877	/	0.320291	
1	1	5	69.3	/	/	0.846709	
2	3	5	74	1098	1442	1.583525	
3	2	5	81	1205	/	1.942407	
4	2	5	72.8	1209	/	3.09092	
5	1	5	88.6	/	/	3.437021	
6	1	5	95	/	/	4.224521	
7	2	5	61.4	1278	/	4.696719	
8	1	5	75.4	/	/	5.656872	
9	3	5	73.4	1788	1440	6.104073	0
10	2	5	91.5	1963	/	6.395598	
11	3	5	65.8	1734	1098	7.34768	
12	1	5	75.1	/	/	7.936256	
13	2	5	97.1	1551	/	8.812856	
14	3	5	91.7	1045	1245	9.467298	
15	1	5	88.8	/	/	9.723279	
16	2	5	53.5	1047	/	10.302448	
17	3	5	87.4	1659	1498	11.03688	
18	1	5	57.6	/	/	11.768406	

Statistics 7 (ChirpCenter Frequency: 5258 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	15	50.3	/	/	0.487288	1
1	3	15	92.9	1345	1537	1.768598	
2	2	15	77.8	1179	/	2.63009	
3	2	15	84.9	1117	/	3.505993	
4	2	15	74.3	1485	/	4.527145	
5	1	15	80.5	/	/	5.156916	
6	3	15	92.2	1689	1401	6.177309	
7	2	15	64.1	1069	/	7.863216	
8	1	15	88.1	/	/	8.519217	
9	2	15	73.1	1150	/	9.593824	
10	3	15	66.2	1498	1739	10.034759	
11	2	15	83.7	1280	/	11.618713	

Statistics 8 (ChirpCenter Frequency: 5260MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	20	52	1200	/	0.238265	1
1	2	20	57.3	1248	/	0.814835	
2	1	20	92.3	/	/	1.409954	
3	2	20	87.6	1279	/	2.287149	
4	1	20	79.9	/	/	3.222833	
5	2	20	50.5	1049	/	3.940107	
6	2	20	80.8	1375	/	4.41931	
7	2	20	94.8	1508	/	4.85194	
8	1	20	52.5	/	/	5.964641	
9	2	20	86.7	1172	/	6.038629	
10	2	20	92.7	1953	/	7.221677	
11	3	20	98.4	1802	1947	7.578247	
12	2	20	74.5	1022	/	8.641637	
13	1	20	53.3	/	/	9.246896	
14	3	20	63.9	1386	1420	9.584689	
15	1	20	63.4	/	/	10.428845	
16	2	20	54	1179	/	10.694351	
17	2	20	53.2	1057	/	11.645262	

Statistics 9 (ChirpCenter Frequency: 5258 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	14	81.2	1820	1096	0.091988	1
1	1	14	89	/	/	1.26645	
2	2	14	65	1088	/	2.244364	
3	2	14	71	1317	/	3.274154	
4	3	14	56.8	1367	1346	4.243272	
5	2	14	67.5	1935	/	5.103183	
6	2	14	63.9	1713	/	6.009247	
7	3	14	77.7	1769	1293	7.857343	
8	1	14	91.4	/	/	8.365489	
9	3	14	97.6	1103	1491	9.055107	
10	2	14	71.3	1391	/	10.094973	
11	2	14	89.4	1098	/	11.154245	

Statistics 10 (ChirpCenter Frequency: 5258 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	14	81.3	1286	/	0.264773	1
1	2	14	78.5	1243	/	1.551313	
2	1	14	99.3	/	/	2.736171	
3	2	14	64.8	1555	/	4.386152	
4	2	14	89.8	1765	/	5.620418	
5	2	14	85.7	1242	/	6.103845	
6	3	14	56.4	1188	1510	7.201786	
7	3	14	99.8	1857	1192	9.559173	
8	2	14	63.5	1296	/	9.865155	
9	1	14	90.9	/	/	11.224495	

Radar Type 5 Case3 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5326 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	6	91.2	1697	/	0.734559	1
1	3	6	50.8	1633	1402	1.888836	
2	2	6	72.5	1764	/	3.688047	
3	1	6	87	/	/	4.375458	
4	2	6	75.2	1475	/	6.543743	
5	1	6	89.3	/	/	6.695304	
6	2	6	90.9	1227	/	9.315716	
7	3	6	95.1	1395	1358	10.272351	
8	2	6	53.7	1292	/	10.928497	

Statistics 2 (ChirpCenter Frequency: 5324 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	10	68	1500	/	0.190187	1
1	2	10	69.4	1899	/	1.575169	
2	2	10	54.1	1012	/	1.958288	
3	2	10	87.6	1364	/	3.118182	
4	3	10	84.4	1441	1103	3.997796	
5	2	10	67.8	1991	/	4.567735	
6	2	10	83.8	1939	/	5.528394	
7	2	10	74.5	1690	/	6.174255	
8	2	10	91.9	1761	/	7.43364	
9	3	10	94.9	1174	1949	7.893929	
10	2	10	56.7	1385	/	9.292116	
11	3	10	92.7	1902	1077	9.721089	
12	2	10	53.3	1185	/	11.077059	
13	2	10	87.9	1337	/	11.807591	

Statistics 3 (ChirpCenter Frequency: 5321 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	18	97.8	1297	1609	0.032019	
1	2	18	53.8	1116	/	0.844933	
2	2	18	56.7	1436	/	1.943053	
3	1	18	64.8	/	/	2.521569	
4	2	18	71.8	1679	/	3.262218	
5	3	18	86.1	1678	1363	3.778338	
6	3	18	52.2	1376	1925	4.295309	
7	2	18	95	1560	/	5.10797	
8	1	18	96.6	/	/	5.934025	1
9	2	18	84	1428	/	6.991432	
10	3	18	87.9	1582	1673	7.270786	
11	2	18	56.6	1687	/	8.124391	
12	3	18	70	1311	1160	8.526829	
13	2	18	93.4	1778	/	9.327603	
14	3	18	84.9	1577	1305	10.375844	
15	2	18	75	1344	/	11.261621	
16	2	18	74.2	1692	/	11.305914	

Statistics 4 (ChirpCenter Frequency: 5324 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	10	69.1	1541	/	0.177616	
1	1	10	53.7	/	/	1.205812	
2	1	10	64.1	/	/	2.307387	
3	2	10	72.5	1125	/	4.174697	
4	1	10	61.5	/	/	4.745799	
5	3	10	78.4	1865	1381	6.51459	1
6	1	10	97	/	/	7.581081	
7	3	10	65.7	1528	1885	8.454402	
8	3	10	60.8	1565	1957	9.126222	
9	2	10	53.1	1953	/	10.631695	
10	2	10	99.4	1093	/	11.975585	

Statistics 5 (ChirpCenter Frequency: 5326 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	5	86.8	1191	/	0.28658	1
1	2	5	96.7	1327	/	0.876145	
2	3	5	98.5	1689	1991	1.876209	
3	1	5	65.5	/	/	2.280386	
4	1	5	75.4	/	/	2.903085	
5	2	5	63.8	1453	/	3.75328	
6	2	5	92.3	1137	/	4.6881	
7	2	5	89.2	1501	/	5.241871	
8	3	5	56.1	1502	1300	6.014477	
9	1	5	85.7	/	/	7.016564	
10	2	5	53.5	1192	/	7.195597	
11	1	5	72.2	/	/	8.357514	
12	2	5	81.6	1049	/	8.817916	
13	3	5	83.9	1166	1548	9.568672	
14	2	5	68	1923	/	10.022051	
15	2	5	87.2	1806	/	11.145281	
16	2	5	77.9	1613	/	11.423259	

Statistics 6 (ChirpCenter Frequency: 5324 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	9	95	1110	/	0.783941	0
1	1	9	80.9	/	/	1.506287	
2	1	9	95.9	/	/	3.134512	
3	2	9	68.1	1877	/	3.608648	
4	2	9	89.1	1276	/	5.611354	
5	3	9	95.2	1804	1713	6.010772	
6	2	9	95	1929	/	7.288565	
7	2	9	53.2	1375	/	9.202045	
8	3	9	94.6	1365	1328	10.078509	
9	1	9	64.6	/	/	11.442586	

Statistics 7 (ChirpCenter Frequency: 5322 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	16	65.4	/	/	0.394808	
1	2	16	69.9	1087	/	1.174371	
2	3	16	87.8	1905	1433	1.877699	
3	3	16	81.2	1469	1402	2.182322	
4	2	16	88.3	1723	/	2.908116	
5	1	16	84.4	/	/	3.810453	
6	3	16	55.9	1547	1393	4.52058	
7	3	16	52.6	1544	1776	4.97491	
8	3	16	76	1760	1740	5.780944	1
9	3	16	90.2	1254	1128	6.872698	
10	2	16	90.3	1189	/	7.474475	
11	3	16	93.4	1547	1760	8.213723	
12	2	16	74.1	1339	/	8.767597	
13	2	16	99	1854	/	9.860463	
14	2	16	61.7	1804	/	10.392422	
15	1	16	93.6	/	/	11.097985	
16	2	16	57.1	1410	/	11.529046	

Statistics 8 (ChirpCenter Frequency: 5323MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	13	98.4	1423	1456	1.09058	
1	1	13	76.2	/	/	2.643128	
2	1	13	82.5	/	/	3.176275	
3	2	13	75.8	1737	/	4.298997	
4	2	13	81.7	1042	/	6.029937	1
5	3	13	57.9	1874	1875	6.882031	
6	1	13	68.3	/	/	9.19624	
7	2	13	51	1170	/	10.013897	
8	3	13	82.9	1500	1512	10.79221	

Statistics 9 (ChirpCenter Frequency: 5320 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	19	61.8	1566	/	1.01692	1
1	1	19	72.1	/	/	1.568217	
2	1	19	97.1	/	/	2.481372	
3	2	19	88	1127	/	3.560557	
4	2	19	98.4	1875	/	4.689237	
5	3	19	67.6	1763	1075	6.132925	
6	2	19	100	1276	/	7.473281	
7	1	19	53.7	/	/	7.686809	
8	3	19	62	1590	1610	9.554175	
9	2	19	51.2	1937	/	10.562886	
10	3	19	88.7	1837	1886	11.196243	

Statistics 10 (ChirpCenter Frequency: 5325 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	8	57.6	1808	/	0.472129	1
1	2	8	79.2	1739	/	0.97313	
2	1	8	67.3	/	/	1.39333	
3	1	8	82.2	/	/	2.049715	
4	1	8	98.6	/	/	2.896395	
5	2	8	61.3	1237	/	3.132562	
6	3	8	78.5	1859	1569	3.944303	
7	3	8	92.4	1590	1411	4.48992	
8	3	8	96.8	1998	1990	5.206155	
9	2	8	68.6	1379	/	5.75167	
10	2	8	75	1422	/	6.570222	
11	2	8	78.2	1690	/	7.038219	
12	2	8	88	1374	/	7.538418	
13	2	8	82.5	1439	/	7.919757	
14	2	8	74.3	1163	/	8.505558	
15	1	8	95.6	/	/	9.332131	
16	2	8	97	1593	/	10.096132	
17	1	8	51.9	/	/	10.57936	
18	2	8	88.3	1865	/	10.94615	
19	2	8	88.6	1054	/	11.812908	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (GHz)
1	5290	9	1	333	1	5575.0, 5547.0, 5720.0, 5324.0, 5556.0, 5557.0, 5646.0, 5508.0, 5475.0, 5297.0, 5290.0, 5576.0, 5439.0, 5360.0, 5657.0, 5455.0, 5426.0, 5416.0, 5373.0, 5609.0, 5390.0, 5525.0, 5459.0, 5486.0, 5587.0, 5384.0, 5504.0, 5496.0, 5679.0, 5723.0, 5350.0, 5489.0, 5319.0, 5441.0, 5509.0, 5633.0, 5590.0, 5664.0, 5382.0, 5607.0, 5304.0, 5320.0, 5628.0, 5581.0, 5264.0, 5262.0, 5685.0, 5399.0, 5349.0, 5371.0, 5711.0, 5591.0, 5263.0, 5298.0, 5332.0, 5361.0, 5431.0, 5367.0, 5623.0, 5253.0, 5449.0, 5688.0, 5694.0, 5440.0, 5692.0, 5365.0, 5401.0, 5453.0, 5294.0, 5473.0, 5452.0, 5656.0, 5422.0, 5567.0, 5278.0, 5535.0, 5276.0, 5446.0, 5589.0, 5585.0, 5285.0, 5404.0, 5537.0, 5523.0, 5606.0, 5518.0, 5391.0, 5299.0, 5311.0, 5700.0, 5630.0, 5343.0, 5545.0, 5344.0, 5710.0, 5683.0, 5315.0, 5346.0, 5322.0, 5698.0
2	5290	9	1	333	1	5493.0, 5584.0, 5561.0, 5524.0, 5509.0, 5544.0, 5406.0, 5534.0, 5503.0, 5669.0, 5610.0, 5530.0, 5462.0, 5548.0, 5484.0, 5487.0, 5717.0, 5428.0, 5673.0, 5637.0, 5497.0, 5409.0, 5563.0, 5308.0, 5581.0, 5266.0, 5280.0, 5337.0, 5672.0, 5579.0, 5442.0, 5651.0, 5596.0, 5526.0, 5523.0, 5259.0, 5477.0, 5372.0, 5400.0, 5457.0, 5260.0, 5533.0, 5660.0, 5577.0, 5556.0, 5304.0, 5281.0, 5366.0, 5657.0, 5392.0, 5310.0, 5425.0, 5433.0, 5605.0, 5478.0, 5690.0, 5327.0, 5404.0, 5554.0, 5384.0, 5434.0, 5357.0, 5674.0, 5504.0, 5451.0, 5274.0, 5719.0, 5292.0, 5335.0, 5616.0, 5513.0, 5518.0, 5430.0, 5475.0, 5314.0, 5344.0, 5571.0, 5698.0, 5587.0, 5491.0, 5545.0, 5432.0, 5443.0, 5485.0, 5573.0, 5714.0, 5688.0, 5424.0, 5465.0, 5527.0, 5473.0, 5627.0, 5508.0, 5302.0, 5364.0, 5353.0, 5521.0, 5472.0, 5694.0, 5718.0
3	5290	9	1	333	1	5435.0, 5273.0, 5370.0, 5617.0, 5477.0, 5450.0, 5680.0, 5386.0, 5580.0, 5326.0, 5649.0, 5702.0, 5502.0, 5318.0, 5372.0, 5708.0, 5629.0, 5320.0, 5422.0, 5285.0, 5647.0, 5522.0, 5467.0, 5601.0, 5429.0, 5566.0, 5490.0, 5362.0, 5525.0, 5471.0, 5717.0, 5574.0, 5486.0, 5505.0, 5298.0, 5589.0, 5493.0, 5447.0, 5666.0, 5470.0, 5461.0, 5543.0, 5479.0, 5570.0, 5716.0, 5560.0, 5284.0, 5345.0, 5319.0, 5374.0, 5518.0, 5720.0, 5325.0, 5682.0, 5659.0, 5631.0, 5576.0, 5513.0, 5633.0, 5663.0, 5351.0, 5552.0, 5452.0, 5616.0, 5620.0,

						5539.0, 5550.0, 5360.0, 5521.0, 5261.0, 5357.0, 5264.0, 5315.0, 5383.0, 5428.0, 5252.0, 5537.0, 5256.0, 5295.0, 5715.0, 5527.0, 5251.0, 5625.0, 5693.0, 5409.0, 5269.0, 5310.0, 5660.0, 5363.0, 5563.0, 5577.0, 5367.0, 5668.0, 5609.0, 5500.0, 5265.0, 5556.0, 5391.0, 5322.0, 5259.0
4	5290	9	1	333	1	5273.0, 5387.0, 5335.0, 5491.0, 5404.0, 5715.0, 5547.0, 5623.0, 5688.0, 5559.0, 5351.0, 5301.0, 5442.0, 5470.0, 5519.0, 5317.0, 5320.0, 5322.0, 5321.0, 5695.0, 5505.0, 5283.0, 5500.0, 5560.0, 5275.0, 5475.0, 5341.0, 5691.0, 5530.0, 5553.0, 5520.0, 5285.0, 5376.0, 5253.0, 5526.0, 5564.0, 5670.0, 5607.0, 5685.0, 5350.0, 5278.0, 5303.0, 5522.0, 5630.0, 5330.0, 5410.0, 5311.0, 5290.0, 5362.0, 5538.0, 5457.0, 5698.0, 5539.0, 5332.0, 5471.0, 5622.0, 5343.0, 5510.0, 5615.0, 5369.0, 5561.0, 5521.0, 5609.0, 5596.0, 5492.0, 5696.0, 5484.0, 5468.0, 5364.0, 5428.0, 5444.0, 5541.0, 5439.0, 5668.0, 5344.0, 5509.0, 5589.0, 5669.0, 5518.0, 5307.0, 5346.0, 5414.0, 5504.0, 5254.0, 5398.0, 5274.0, 5421.0, 5391.0, 5577.0, 5666.0, 5681.0, 5516.0, 5250.0, 5324.0, 5511.0, 5672.0, 5507.0, 5363.0, 5632.0, 5382.0
5	5290	9	1	333	1	5384.0, 5687.0, 5599.0, 5637.0, 5566.0, 5474.0, 5661.0, 5656.0, 5673.0, 5508.0, 5514.0, 5494.0, 5426.0, 5422.0, 5580.0, 5585.0, 5683.0, 5519.0, 5355.0, 5708.0, 5487.0, 5671.0, 5662.0, 5629.0, 5436.0, 5630.0, 5627.0, 5598.0, 5676.0, 5721.0, 5524.0, 5264.0, 5509.0, 5686.0, 5259.0, 5340.0, 5552.0, 5688.0, 5257.0, 5604.0, 5435.0, 5380.0, 5467.0, 5279.0, 5374.0, 5456.0, 5328.0, 5691.0, 5491.0, 5466.0, 5650.0, 5558.0, 5285.0, 5282.0, 5303.0, 5632.0, 5642.0, 5506.0, 5449.0, 5563.0, 5360.0, 5440.0, 5345.0, 5395.0, 5572.0, 5535.0, 5434.0, 5679.0, 5447.0, 5586.0, 5626.0, 5633.0, 5396.0, 5268.0, 5654.0, 5351.0, 5309.0, 5349.0, 5310.0, 5589.0, 5516.0, 5393.0, 5269.0, 5678.0, 5263.0, 5276.0, 5270.0, 5696.0, 5574.0, 5385.0, 5459.0, 5556.0, 5397.0, 5669.0, 5682.0, 5398.0, 5619.0, 5483.0, 5454.0, 5520.0
6	5290	9	1	333	1	5632.0, 5665.0, 5352.0, 5488.0, 5578.0, 5383.0, 5327.0, 5356.0, 5715.0, 5463.0, 5689.0, 5527.0, 5258.0, 5712.0, 5656.0, 5272.0, 5296.0, 5273.0, 5526.0, 5464.0, 5590.0, 5619.0, 5682.0, 5573.0, 5348.0, 5403.0, 5259.0, 5290.0, 5709.0, 5335.0, 5647.0, 5511.0, 5667.0, 5475.0, 5566.0, 5714.0, 5536.0, 5603.0, 5483.0, 5320.0, 5396.0, 5476.0, 5291.0, 5686.0, 5260.0, 5286.0, 5265.0, 5337.0, 5623.0, 5347.0, 5479.0, 5342.0, 5365.0, 5392.0, 5708.0, 5326.0, 5605.0, 5600.0, 5654.0, 5376.0, 5329.0, 5641.0, 5530.0, 5314.0, 5653.0,

						5421.0, 5652.0, 5510.0, 5339.0, 5707.0, 5679.0, 5274.0, 5540.0, 5397.0, 5622.0, 5364.0, 5549.0, 5655.0, 5684.0, 5390.0, 5469.0, 5340.0, 5548.0, 5501.0, 5254.0, 5650.0, 5690.0, 5711.0, 5664.0, 5435.0, 5447.0, 5662.0, 5529.0, 5432.0, 5546.0, 5553.0, 5687.0, 5671.0, 5533.0, 5294.0
7	5290	9	1	333	1	5426.0, 5505.0, 5620.0, 5609.0, 5604.0, 5391.0, 5346.0, 5338.0, 5513.0, 5252.0, 5684.0, 5621.0, 5349.0, 5312.0, 5293.0, 5504.0, 5605.0, 5612.0, 5671.0, 5526.0, 5635.0, 5575.0, 5574.0, 5337.0, 5304.0, 5476.0, 5442.0, 5720.0, 5317.0, 5488.0, 5285.0, 5617.0, 5712.0, 5622.0, 5561.0, 5585.0, 5345.0, 5710.0, 5289.0, 5394.0, 5444.0, 5377.0, 5479.0, 5260.0, 5638.0, 5639.0, 5529.0, 5414.0, 5653.0, 5494.0, 5342.0, 5495.0, 5355.0, 5320.0, 5433.0, 5454.0, 5268.0, 5339.0, 5449.0, 5599.0, 5378.0, 5430.0, 5438.0, 5632.0, 5424.0, 5328.0, 5319.0, 5498.0, 5253.0, 5470.0, 5333.0, 5503.0, 5606.0, 5300.0, 5344.0, 5416.0, 5461.0, 5403.0, 5415.0, 5314.0, 5521.0, 5704.0, 5663.0, 5267.0, 5626.0, 5473.0, 5562.0, 5334.0, 5681.0, 5627.0, 5647.0, 5417.0, 5709.0, 5688.0, 5650.0, 5694.0, 5475.0, 5458.0, 5343.0, 5423.0
8	5290	9	1	333	1	5592.0, 5565.0, 5550.0, 5521.0, 5325.0, 5320.0, 5254.0, 5387.0, 5483.0, 5508.0, 5567.0, 5675.0, 5686.0, 5632.0, 5482.0, 5599.0, 5707.0, 5355.0, 5332.0, 5601.0, 5323.0, 5469.0, 5373.0, 5363.0, 5671.0, 5624.0, 5379.0, 5622.0, 5448.0, 5635.0, 5501.0, 5282.0, 5256.0, 5327.0, 5684.0, 5581.0, 5433.0, 5271.0, 5318.0, 5369.0, 5603.0, 5309.0, 5465.0, 5631.0, 5432.0, 5598.0, 5546.0, 5367.0, 5722.0, 5449.0, 5473.0, 5606.0, 5633.0, 5677.0, 5556.0, 5497.0, 5302.0, 5460.0, 5255.0, 5721.0, 5710.0, 5300.0, 5296.0, 5591.0, 5455.0, 5351.0, 5496.0, 5588.0, 5357.0, 5652.0, 5303.0, 5493.0, 5298.0, 5310.0, 5408.0, 5445.0, 5383.0, 5672.0, 5702.0, 5676.0, 5532.0, 5353.0, 5364.0, 5706.0, 5261.0, 5663.0, 5446.0, 5487.0, 5341.0, 5439.0, 5568.0, 5319.0, 5673.0, 5621.0, 5335.0, 5704.0, 5593.0, 5415.0, 5388.0, 5515.0
9	5290	9	1	333	1	5629.0, 5477.0, 5256.0, 5573.0, 5263.0, 5490.0, 5424.0, 5609.0, 5510.0, 5469.0, 5419.0, 5396.0, 5394.0, 5257.0, 5718.0, 5480.0, 5516.0, 5294.0, 5547.0, 5281.0, 5429.0, 5578.0, 5450.0, 5251.0, 5628.0, 5278.0, 5505.0, 5325.0, 5538.0, 5359.0, 5329.0, 5696.0, 5392.0, 5647.0, 5439.0, 5570.0, 5300.0, 5658.0, 5415.0, 5406.0, 5330.0, 5423.0, 5581.0, 5324.0, 5362.0, 5350.0, 5679.0, 5280.0, 5404.0, 5262.0, 5453.0, 5380.0, 5421.0, 5386.0, 5322.0, 5698.0, 5620.0, 5377.0, 5712.0, 5372.0, 5318.0, 5681.0, 5503.0, 5675.0, 5550.0,

						5492.0, 5447.0, 5626.0, 5273.0, 5390.0, 5497.0, 5411.0, 5306.0, 5346.0, 5643.0, 5349.0, 5572.0, 5654.0, 5253.0, 5493.0, 5665.0, 5607.0, 5717.0, 5332.0, 5310.0, 5630.0, 5627.0, 5648.0, 5521.0, 5537.0, 5519.0, 5452.0, 5545.0, 5268.0, 5341.0, 5399.0, 5471.0, 5501.0, 5456.0, 5653.0
10	5290	9	1	333	1	5635.0, 5368.0, 5435.0, 5668.0, 5416.0, 5291.0, 5265.0, 5258.0, 5573.0, 5255.0, 5705.0, 5634.0, 5481.0, 5364.0, 5654.0, 5301.0, 5680.0, 5483.0, 5511.0, 5484.0, 5336.0, 5278.0, 5649.0, 5643.0, 5395.0, 5607.0, 5313.0, 5584.0, 5530.0, 5257.0, 5399.0, 5389.0, 5250.0, 5524.0, 5598.0, 5458.0, 5407.0, 5520.0, 5619.0, 5381.0, 5497.0, 5289.0, 5388.0, 5656.0, 5379.0, 5502.0, 5264.0, 5430.0, 5372.0, 5575.0, 5346.0, 5602.0, 5495.0, 5462.0, 5554.0, 5716.0, 5356.0, 5615.0, 5311.0, 5719.0, 5331.0, 5337.0, 5412.0, 5591.0, 5577.0, 5661.0, 5514.0, 5691.0, 5569.0, 5593.0, 5560.0, 5449.0, 5626.0, 5287.0, 5442.0, 5422.0, 5286.0, 5451.0, 5631.0, 5632.0, 5261.0, 5269.0, 5531.0, 5293.0, 5677.0, 5708.0, 5317.0, 5274.0, 5512.0, 5640.0, 5359.0, 5542.0, 5340.0, 5616.0, 5704.0, 5357.0, 5275.0, 5499.0, 5628.0, 5394.0
11	5290	9	1	333	1	5714.0, 5555.0, 5455.0, 5348.0, 5540.0, 5655.0, 5298.0, 5579.0, 5670.0, 5459.0, 5518.0, 5454.0, 5640.0, 5415.0, 5686.0, 5676.0, 5515.0, 5590.0, 5618.0, 5593.0, 5311.0, 5345.0, 5261.0, 5314.0, 5650.0, 5275.0, 5684.0, 5519.0, 5673.0, 5679.0, 5531.0, 5382.0, 5365.0, 5705.0, 5376.0, 5642.0, 5480.0, 5413.0, 5508.0, 5511.0, 5329.0, 5592.0, 5630.0, 5495.0, 5663.0, 5296.0, 5629.0, 5696.0, 5722.0, 5406.0, 5548.0, 5306.0, 5388.0, 5481.0, 5395.0, 5445.0, 5589.0, 5603.0, 5437.0, 5426.0, 5368.0, 5452.0, 5704.0, 5514.0, 5612.0, 5404.0, 5390.0, 5313.0, 5359.0, 5651.0, 5544.0, 5457.0, 5320.0, 5697.0, 5561.0, 5615.0, 5380.0, 5546.0, 5373.0, 5450.0, 5701.0, 5400.0, 5467.0, 5489.0, 5717.0, 5621.0, 5387.0, 5571.0, 5609.0, 5547.0, 5448.0, 5347.0, 5255.0, 5447.0, 5558.0, 5280.0, 5520.0, 5675.0, 5636.0, 5551.0
12	5290	9	1	333	1	5494.0, 5318.0, 5636.0, 5254.0, 5550.0, 5653.0, 5395.0, 5514.0, 5421.0, 5716.0, 5452.0, 5481.0, 5510.0, 5517.0, 5568.0, 5697.0, 5479.0, 5290.0, 5417.0, 5431.0, 5722.0, 5328.0, 5567.0, 5509.0, 5313.0, 5357.0, 5579.0, 5312.0, 5589.0, 5640.0, 5378.0, 5304.0, 5256.0, 5307.0, 5292.0, 5707.0, 5373.0, 5273.0, 5593.0, 5694.0, 5275.0, 5435.0, 5369.0, 5537.0, 5658.0, 5418.0, 5400.0, 5282.0, 5336.0, 5280.0, 5539.0, 5393.0, 5621.0, 5257.0, 5376.0, 5580.0, 5332.0, 5331.0, 5547.0, 5284.0, 5710.0, 5465.0, 5466.0, 5601.0, 5678.0,

						5463.0, 5354.0, 5333.0, 5703.0, 5291.0, 5650.0, 5428.0, 5381.0, 5595.0, 5404.0, 5645.0, 5604.0, 5364.0, 5488.0, 5549.0, 5444.0, 5343.0, 5308.0, 5581.0, 5454.0, 5276.0, 5446.0, 5629.0, 5591.0, 5648.0, 5609.0, 5585.0, 5571.0, 5530.0, 5316.0, 5540.0, 5613.0, 5560.0, 5574.0, 5634.0
13	5290	9	1	333	1	5562.0, 5635.0, 5657.0, 5372.0, 5623.0, 5539.0, 5631.0, 5526.0, 5521.0, 5396.0, 5475.0, 5497.0, 5517.0, 5545.0, 5563.0, 5559.0, 5330.0, 5325.0, 5478.0, 5318.0, 5668.0, 5373.0, 5319.0, 5442.0, 5640.0, 5291.0, 5613.0, 5289.0, 5618.0, 5578.0, 5654.0, 5302.0, 5251.0, 5447.0, 5418.0, 5456.0, 5611.0, 5487.0, 5687.0, 5391.0, 5292.0, 5410.0, 5295.0, 5484.0, 5270.0, 5440.0, 5356.0, 5507.0, 5590.0, 5426.0, 5370.0, 5612.0, 5303.0, 5334.0, 5552.0, 5324.0, 5448.0, 5596.0, 5690.0, 5317.0, 5265.0, 5660.0, 5452.0, 5683.0, 5347.0, 5398.0, 5636.0, 5674.0, 5609.0, 5584.0, 5423.0, 5663.0, 5599.0, 5651.0, 5616.0, 5290.0, 5500.0, 5680.0, 5695.0, 5511.0, 5606.0, 5403.0, 5673.0, 5489.0, 5669.0, 5332.0, 5570.0, 5677.0, 5433.0, 5367.0, 5327.0, 5622.0, 5362.0, 5525.0, 5282.0, 5311.0, 5498.0, 5451.0, 5492.0, 5404.0
14	5290	9	1	333	1	5260.0, 5607.0, 5717.0, 5577.0, 5678.0, 5707.0, 5715.0, 5341.0, 5598.0, 5686.0, 5695.0, 5514.0, 5489.0, 5406.0, 5267.0, 5464.0, 5639.0, 5563.0, 5556.0, 5647.0, 5483.0, 5294.0, 5574.0, 5524.0, 5566.0, 5714.0, 5409.0, 5415.0, 5379.0, 5584.0, 5309.0, 5416.0, 5346.0, 5586.0, 5254.0, 5693.0, 5256.0, 5621.0, 5568.0, 5481.0, 5583.0, 5502.0, 5581.0, 5590.0, 5587.0, 5617.0, 5329.0, 5462.0, 5624.0, 5500.0, 5723.0, 5601.0, 5675.0, 5564.0, 5482.0, 5682.0, 5649.0, 5520.0, 5666.0, 5257.0, 5709.0, 5525.0, 5555.0, 5466.0, 5494.0, 5300.0, 5698.0, 5545.0, 5431.0, 5654.0, 5314.0, 5322.0, 5308.0, 5375.0, 5669.0, 5367.0, 5251.0, 5559.0, 5676.0, 5591.0, 5580.0, 5392.0, 5602.0, 5511.0, 5384.0, 5303.0, 5585.0, 5282.0, 5320.0, 5355.0, 5606.0, 5516.0, 5444.0, 5619.0, 5474.0, 5486.0, 5626.0, 5271.0, 5438.0, 5270.0
15	5290	9	1	333	1	5493.0, 5369.0, 5553.0, 5506.0, 5303.0, 5649.0, 5292.0, 5672.0, 5663.0, 5402.0, 5566.0, 5347.0, 5327.0, 5687.0, 5360.0, 5253.0, 5445.0, 5517.0, 5470.0, 5590.0, 5309.0, 5314.0, 5374.0, 5578.0, 5602.0, 5589.0, 5638.0, 5689.0, 5532.0, 5398.0, 5251.0, 5281.0, 5422.0, 5500.0, 5433.0, 5318.0, 5495.0, 5509.0, 5335.0, 5655.0, 5322.0, 5634.0, 5333.0, 5368.0, 5550.0, 5466.0, 5712.0, 5537.0, 5474.0, 5560.0, 5352.0, 5487.0, 5367.0, 5652.0, 5678.0, 5720.0, 5467.0, 5337.0, 5465.0, 5450.0, 5531.0, 5628.0, 5277.0, 5657.0, 5332.0,

						5304.0, 5515.0, 5380.0, 5496.0, 5424.0, 5476.0, 5669.0, 5555.0, 5324.0, 5481.0, 5432.0, 5359.0, 5594.0, 5599.0, 5596.0, 5410.0, 5557.0, 5656.0, 5440.0, 5694.0, 5478.0, 5344.0, 5375.0, 5575.0, 5263.0, 5362.0, 5444.0, 5490.0, 5498.0, 5459.0, 5580.0, 5693.0, 5341.0, 5325.0, 5609.0
16	5290	9	1	333	1	5596.0, 5444.0, 5290.0, 5263.0, 5583.0, 5647.0, 5261.0, 5599.0, 5520.0, 5699.0, 5445.0, 5600.0, 5385.0, 5370.0, 5266.0, 5511.0, 5289.0, 5301.0, 5719.0, 5644.0, 5432.0, 5437.0, 5389.0, 5342.0, 5590.0, 5578.0, 5419.0, 5624.0, 5358.0, 5380.0, 5363.0, 5634.0, 5319.0, 5443.0, 5528.0, 5700.0, 5555.0, 5451.0, 5293.0, 5490.0, 5597.0, 5492.0, 5701.0, 5351.0, 5712.0, 5495.0, 5549.0, 5253.0, 5614.0, 5338.0, 5657.0, 5670.0, 5354.0, 5591.0, 5665.0, 5396.0, 5664.0, 5510.0, 5379.0, 5486.0, 5368.0, 5518.0, 5395.0, 5671.0, 5260.0, 5548.0, 5446.0, 5330.0, 5533.0, 5650.0, 5321.0, 5711.0, 5340.0, 5281.0, 5622.0, 5262.0, 5573.0, 5696.0, 5413.0, 5603.0, 5393.0, 5399.0, 5384.0, 5546.0, 5529.0, 5286.0, 5416.0, 5566.0, 5496.0, 5431.0, 5422.0, 5668.0, 5640.0, 5517.0, 5532.0, 5350.0, 5616.0, 5714.0, 5346.0, 5687.0
17	5290	9	1	333	1	5478.0, 5259.0, 5557.0, 5543.0, 5454.0, 5309.0, 5393.0, 5363.0, 5416.0, 5624.0, 5479.0, 5360.0, 5688.0, 5703.0, 5692.0, 5717.0, 5576.0, 5544.0, 5418.0, 5389.0, 5670.0, 5540.0, 5340.0, 5611.0, 5524.0, 5465.0, 5386.0, 5605.0, 5527.0, 5523.0, 5496.0, 5542.0, 5324.0, 5390.0, 5671.0, 5452.0, 5425.0, 5370.0, 5668.0, 5583.0, 5608.0, 5491.0, 5549.0, 5474.0, 5716.0, 5375.0, 5394.0, 5444.0, 5417.0, 5614.0, 5434.0, 5468.0, 5665.0, 5596.0, 5432.0, 5420.0, 5295.0, 5515.0, 5384.0, 5385.0, 5362.0, 5350.0, 5517.0, 5602.0, 5565.0, 5258.0, 5463.0, 5678.0, 5319.0, 5713.0, 5519.0, 5626.0, 5634.0, 5575.0, 5609.0, 5598.0, 5653.0, 5308.0, 5559.0, 5441.0, 5401.0, 5352.0, 5320.0, 5723.0, 5345.0, 5551.0, 5633.0, 5341.0, 5669.0, 5620.0, 5430.0, 5351.0, 5366.0, 5409.0, 5484.0, 5354.0, 5317.0, 5415.0, 5593.0, 5558.0
18	5290	9	1	333	1	5282.0, 5378.0, 5357.0, 5326.0, 5704.0, 5605.0, 5481.0, 5265.0, 5475.0, 5316.0, 5580.0, 5682.0, 5331.0, 5476.0, 5723.0, 5525.0, 5516.0, 5289.0, 5301.0, 5354.0, 5555.0, 5691.0, 5505.0, 5463.0, 5565.0, 5485.0, 5336.0, 5568.0, 5277.0, 5380.0, 5280.0, 5401.0, 5557.0, 5489.0, 5499.0, 5431.0, 5546.0, 5449.0, 5268.0, 5312.0, 5654.0, 5628.0, 5350.0, 5424.0, 5306.0, 5266.0, 5606.0, 5675.0, 5421.0, 5509.0, 5651.0, 5533.0, 5452.0, 5394.0, 5718.0, 5715.0, 5695.0, 5601.0, 5634.0, 5351.0, 5585.0, 5600.0, 5342.0, 5427.0, 5433.0,

						5349.0, 5356.0, 5397.0, 5393.0, 5438.0, 5308.0, 5388.0, 5423.0, 5473.0, 5706.0, 5513.0, 5311.0, 5710.0, 5447.0, 5352.0, 5707.0, 5411.0, 5524.0, 5273.0, 5377.0, 5270.0, 5442.0, 5536.0, 5659.0, 5461.0, 5338.0, 5591.0, 5365.0, 5624.0, 5535.0, 5672.0, 5642.0, 5468.0, 5412.0, 5587.0
19	5290	9	1	333	1	5311.0, 5527.0, 5658.0, 5666.0, 5563.0, 5402.0, 5372.0, 5574.0, 5416.0, 5714.0, 5628.0, 5451.0, 5525.0, 5611.0, 5532.0, 5713.0, 5624.0, 5475.0, 5469.0, 5290.0, 5509.0, 5609.0, 5391.0, 5543.0, 5559.0, 5460.0, 5432.0, 5302.0, 5429.0, 5600.0, 5717.0, 5441.0, 5481.0, 5368.0, 5645.0, 5505.0, 5485.0, 5698.0, 5657.0, 5426.0, 5577.0, 5382.0, 5279.0, 5519.0, 5389.0, 5683.0, 5289.0, 5320.0, 5253.0, 5526.0, 5688.0, 5470.0, 5397.0, 5387.0, 5591.0, 5673.0, 5297.0, 5671.0, 5592.0, 5414.0, 5719.0, 5482.0, 5607.0, 5576.0, 5360.0, 5393.0, 5502.0, 5277.0, 5693.0, 5258.0, 5622.0, 5467.0, 5588.0, 5630.0, 5643.0, 5538.0, 5535.0, 5616.0, 5646.0, 5254.0, 5363.0, 5680.0, 5474.0, 5266.0, 5346.0, 5336.0, 5394.0, 5539.0, 5377.0, 5570.0, 5376.0, 5528.0, 5308.0, 5697.0, 5623.0, 5572.0, 5340.0, 5715.0, 5685.0, 5304.0
20	5290	9	1	333	1	5587.0, 5638.0, 5498.0, 5362.0, 5624.0, 5447.0, 5707.0, 5501.0, 5427.0, 5540.0, 5296.0, 5558.0, 5434.0, 5443.0, 5281.0, 5260.0, 5645.0, 5270.0, 5570.0, 5555.0, 5669.0, 5641.0, 5706.0, 5702.0, 5262.0, 5643.0, 5561.0, 5438.0, 5251.0, 5314.0, 5289.0, 5597.0, 5563.0, 5410.0, 5338.0, 5327.0, 5475.0, 5595.0, 5569.0, 5567.0, 5473.0, 5603.0, 5389.0, 5276.0, 5684.0, 5325.0, 5647.0, 5360.0, 5600.0, 5495.0, 5589.0, 5699.0, 5479.0, 5486.0, 5340.0, 5542.0, 5507.0, 5560.0, 5680.0, 5330.0, 5442.0, 5652.0, 5505.0, 5694.0, 5683.0, 5365.0, 5650.0, 5301.0, 5625.0, 5488.0, 5635.0, 5588.0, 5709.0, 5610.0, 5334.0, 5428.0, 5406.0, 5372.0, 5379.0, 5295.0, 5269.0, 5686.0, 5358.0, 5418.0, 5404.0, 5324.0, 5714.0, 5590.0, 5359.0, 5648.0, 5517.0, 5609.0, 5554.0, 5484.0, 5499.0, 5346.0, 5667.0, 5599.0, 5477.0, 5385.0
21	5290	9	1	333	1	5454.0, 5276.0, 5720.0, 5575.0, 5535.0, 5346.0, 5582.0, 5709.0, 5658.0, 5710.0, 5646.0, 5438.0, 5711.0, 5645.0, 5336.0, 5555.0, 5337.0, 5525.0, 5689.0, 5570.0, 5308.0, 5573.0, 5291.0, 5450.0, 5674.0, 5378.0, 5407.0, 5590.0, 5675.0, 5393.0, 5504.0, 5373.0, 5630.0, 5500.0, 5571.0, 5321.0, 5351.0, 5609.0, 5621.0, 5564.0, 5569.0, 5668.0, 5364.0, 5498.0, 5459.0, 5499.0, 5456.0, 5275.0, 5507.0, 5323.0, 5404.0, 5432.0, 5280.0, 5362.0, 5628.0, 5537.0, 5273.0, 5400.0, 5686.0, 5399.0, 5446.0, 5511.0, 5577.0, 5283.0, 5522.0,

						5588.0, 5260.0, 5363.0, 5666.0, 5626.0, 5433.0, 5602.0, 5648.0, 5526.0, 5552.0, 5401.0, 5620.0, 5395.0, 5376.0, 5360.0, 5594.0, 5708.0, 5338.0, 5369.0, 5396.0, 5604.0, 5578.0, 5538.0, 5386.0, 5421.0, 5445.0, 5316.0, 5380.0, 5388.0, 5355.0, 5681.0, 5548.0, 5562.0, 5428.0, 5313.0
22	5290	9	1	333	1	5626.0, 5616.0, 5442.0, 5497.0, 5436.0, 5408.0, 5509.0, 5256.0, 5338.0, 5476.0, 5317.0, 5345.0, 5624.0, 5511.0, 5557.0, 5481.0, 5688.0, 5394.0, 5427.0, 5462.0, 5325.0, 5305.0, 5395.0, 5496.0, 5596.0, 5724.0, 5535.0, 5259.0, 5516.0, 5404.0, 5713.0, 5519.0, 5422.0, 5504.0, 5605.0, 5565.0, 5572.0, 5637.0, 5550.0, 5670.0, 5619.0, 5353.0, 5453.0, 5266.0, 5456.0, 5448.0, 5576.0, 5582.0, 5272.0, 5287.0, 5717.0, 5350.0, 5530.0, 5586.0, 5654.0, 5510.0, 5380.0, 5284.0, 5661.0, 5651.0, 5252.0, 5425.0, 5304.0, 5579.0, 5360.0, 5386.0, 5390.0, 5344.0, 5549.0, 5311.0, 5618.0, 5320.0, 5520.0, 5692.0, 5288.0, 5577.0, 5491.0, 5326.0, 5328.0, 5315.0, 5603.0, 5361.0, 5374.0, 5668.0, 5682.0, 5697.0, 5346.0, 5595.0, 5274.0, 5383.0, 5628.0, 5527.0, 5544.0, 5413.0, 5695.0, 5580.0, 5333.0, 5367.0, 5429.0, 5421.0
23	5290	9	1	333	1	5490.0, 5433.0, 5408.0, 5625.0, 5468.0, 5377.0, 5378.0, 5672.0, 5473.0, 5714.0, 5532.0, 5599.0, 5626.0, 5701.0, 5508.0, 5409.0, 5661.0, 5341.0, 5567.0, 5582.0, 5261.0, 5332.0, 5398.0, 5492.0, 5581.0, 5669.0, 5518.0, 5644.0, 5503.0, 5415.0, 5519.0, 5553.0, 5352.0, 5663.0, 5277.0, 5455.0, 5711.0, 5559.0, 5537.0, 5560.0, 5495.0, 5274.0, 5442.0, 5550.0, 5640.0, 5570.0, 5309.0, 5652.0, 5389.0, 5709.0, 5375.0, 5479.0, 5600.0, 5265.0, 5580.0, 5340.0, 5506.0, 5280.0, 5257.0, 5617.0, 5374.0, 5678.0, 5486.0, 5403.0, 5691.0, 5456.0, 5464.0, 5522.0, 5361.0, 5592.0, 5601.0, 5370.0, 5380.0, 5717.0, 5276.0, 5650.0, 5686.0, 5621.0, 5700.0, 5308.0, 5367.0, 5692.0, 5612.0, 5651.0, 5723.0, 5344.0, 5291.0, 5528.0, 5314.0, 5426.0, 5353.0, 5527.0, 5419.0, 5441.0, 5498.0, 5483.0, 5393.0, 5330.0, 5610.0, 5643.0
24	5290	9	1	333	1	5311.0, 5475.0, 5603.0, 5366.0, 5436.0, 5377.0, 5467.0, 5464.0, 5419.0, 5382.0, 5307.0, 5688.0, 5402.0, 5589.0, 5405.0, 5671.0, 5592.0, 5459.0, 5378.0, 5672.0, 5373.0, 5564.0, 5476.0, 5415.0, 5622.0, 5406.0, 5409.0, 5330.0, 5255.0, 5298.0, 5609.0, 5566.0, 5364.0, 5473.0, 5519.0, 5474.0, 5379.0, 5421.0, 5552.0, 5282.0, 5718.0, 5357.0, 5391.0, 5614.0, 5715.0, 5392.0, 5542.0, 5413.0, 5673.0, 5335.0, 5340.0, 5355.0, 5722.0, 5587.0, 5598.0, 5678.0, 5604.0, 5497.0, 5274.0, 5647.0, 5600.0, 5449.0, 5556.0, 5374.0, 5610.0,

						5267.0, 5517.0, 5428.0, 5443.0, 5719.0, 5310.0, 5645.0, 5273.0, 5400.0, 5347.0, 5429.0, 5348.0, 5541.0, 5393.0, 5434.0, 5403.0, 5427.0, 5525.0, 5665.0, 5260.0, 5313.0, 5703.0, 5689.0, 5278.0, 5279.0, 5515.0, 5320.0, 5572.0, 5309.0, 5343.0, 5593.0, 5702.0, 5469.0, 5706.0, 5485.0
25	5290	9	1	333	1	5363.0, 5545.0, 5274.0, 5443.0, 5407.0, 5680.0, 5695.0, 5721.0, 5714.0, 5465.0, 5600.0, 5282.0, 5706.0, 5380.0, 5352.0, 5436.0, 5485.0, 5662.0, 5392.0, 5361.0, 5342.0, 5484.0, 5692.0, 5661.0, 5378.0, 5348.0, 5406.0, 5543.0, 5535.0, 5254.0, 5609.0, 5556.0, 5255.0, 5590.0, 5667.0, 5461.0, 5686.0, 5376.0, 5493.0, 5533.0, 5383.0, 5666.0, 5266.0, 5464.0, 5677.0, 5495.0, 5592.0, 5503.0, 5354.0, 5516.0, 5346.0, 5275.0, 5381.0, 5531.0, 5389.0, 5570.0, 5351.0, 5632.0, 5357.0, 5253.0, 5668.0, 5364.0, 5258.0, 5575.0, 5553.0, 5669.0, 5641.0, 5628.0, 5384.0, 5442.0, 5702.0, 5319.0, 5596.0, 5691.0, 5694.0, 5601.0, 5499.0, 5341.0, 5670.0, 5468.0, 5382.0, 5273.0, 5611.0, 5267.0, 5656.0, 5658.0, 5555.0, 5456.0, 5454.0, 5548.0, 5335.0, 5496.0, 5423.0, 5368.0, 5710.0, 5645.0, 5643.0, 5650.0, 5551.0, 5584.0
26	5290	9	1	333	1	5346.0, 5530.0, 5682.0, 5368.0, 5334.0, 5677.0, 5681.0, 5518.0, 5656.0, 5575.0, 5471.0, 5491.0, 5531.0, 5574.0, 5286.0, 5554.0, 5614.0, 5616.0, 5570.0, 5446.0, 5364.0, 5379.0, 5551.0, 5694.0, 5709.0, 5441.0, 5631.0, 5628.0, 5592.0, 5626.0, 5449.0, 5383.0, 5472.0, 5715.0, 5333.0, 5417.0, 5547.0, 5387.0, 5426.0, 5516.0, 5398.0, 5511.0, 5540.0, 5654.0, 5357.0, 5477.0, 5478.0, 5273.0, 5512.0, 5338.0, 5465.0, 5671.0, 5559.0, 5269.0, 5430.0, 5460.0, 5504.0, 5356.0, 5632.0, 5549.0, 5717.0, 5453.0, 5492.0, 5451.0, 5290.0, 5688.0, 5633.0, 5377.0, 5620.0, 5402.0, 5659.0, 5714.0, 5611.0, 5649.0, 5721.0, 5578.0, 5321.0, 5293.0, 5466.0, 5267.0, 5279.0, 5560.0, 5401.0, 5663.0, 5655.0, 5323.0, 5312.0, 5447.0, 5463.0, 5615.0, 5652.0, 5577.0, 5557.0, 5698.0, 5584.0, 5374.0, 5607.0, 5375.0, 5670.0, 5406.0
27	5290	9	1	333	1	5267.0, 5569.0, 5265.0, 5484.0, 5436.0, 5583.0, 5385.0, 5325.0, 5669.0, 5648.0, 5453.0, 5670.0, 5533.0, 5686.0, 5283.0, 5502.0, 5593.0, 5340.0, 5378.0, 5420.0, 5603.0, 5517.0, 5598.0, 5575.0, 5516.0, 5464.0, 5578.0, 5722.0, 5513.0, 5602.0, 5303.0, 5519.0, 5633.0, 5715.0, 5341.0, 5472.0, 5689.0, 5654.0, 5695.0, 5609.0, 5637.0, 5540.0, 5282.0, 5661.0, 5644.0, 5288.0, 5599.0, 5454.0, 5495.0, 5535.0, 5503.0, 5311.0, 5253.0, 5628.0, 5518.0, 5620.0, 5691.0, 5683.0, 5293.0, 5296.0, 5395.0, 5271.0, 5363.0, 5666.0, 5427.0,

						5269.0, 5567.0, 5437.0, 5361.0, 5450.0, 5419.0, 5364.0, 5438.0, 5262.0, 5673.0, 5473.0, 5584.0, 5379.0, 5333.0, 5524.0, 5499.0, 5475.0, 5375.0, 5606.0, 5555.0, 5423.0, 5703.0, 5536.0, 5645.0, 5367.0, 5718.0, 5558.0, 5643.0, 5560.0, 5650.0, 5292.0, 5577.0, 5681.0, 5492.0, 5371.0
28	5290	9	1	333	1	5671.0, 5361.0, 5504.0, 5519.0, 5435.0, 5599.0, 5711.0, 5421.0, 5615.0, 5576.0, 5628.0, 5620.0, 5327.0, 5683.0, 5471.0, 5342.0, 5370.0, 5637.0, 5713.0, 5673.0, 5543.0, 5531.0, 5634.0, 5625.0, 5655.0, 5357.0, 5529.0, 5575.0, 5280.0, 5496.0, 5436.0, 5606.0, 5518.0, 5317.0, 5695.0, 5633.0, 5712.0, 5507.0, 5509.0, 5486.0, 5564.0, 5418.0, 5285.0, 5254.0, 5630.0, 5323.0, 5598.0, 5440.0, 5526.0, 5319.0, 5604.0, 5417.0, 5415.0, 5610.0, 5429.0, 5650.0, 5563.0, 5635.0, 5551.0, 5652.0, 5389.0, 5259.0, 5444.0, 5364.0, 5639.0, 5646.0, 5442.0, 5621.0, 5449.0, 5658.0, 5613.0, 5347.0, 5295.0, 5385.0, 5506.0, 5708.0, 5513.0, 5559.0, 5590.0, 5396.0, 5552.0, 5589.0, 5715.0, 5251.0, 5714.0, 5334.0, 5275.0, 5672.0, 5360.0, 5654.0, 5591.0, 5493.0, 5583.0, 5717.0, 5318.0, 5255.0, 5326.0, 5416.0, 5474.0, 5343.0
29	5290	9	1	333	1	5668.0, 5481.0, 5492.0, 5578.0, 5250.0, 5622.0, 5385.0, 5601.0, 5555.0, 5604.0, 5712.0, 5620.0, 5537.0, 5585.0, 5278.0, 5348.0, 5252.0, 5647.0, 5511.0, 5430.0, 5577.0, 5473.0, 5562.0, 5612.0, 5454.0, 5392.0, 5349.0, 5282.0, 5445.0, 5426.0, 5673.0, 5490.0, 5386.0, 5378.0, 5549.0, 5372.0, 5522.0, 5443.0, 5283.0, 5605.0, 5671.0, 5567.0, 5678.0, 5315.0, 5346.0, 5559.0, 5700.0, 5684.0, 5270.0, 5436.0, 5680.0, 5500.0, 5322.0, 5441.0, 5403.0, 5342.0, 5513.0, 5327.0, 5607.0, 5321.0, 5391.0, 5664.0, 5543.0, 5526.0, 5319.0, 5530.0, 5364.0, 5650.0, 5609.0, 5256.0, 5361.0, 5406.0, 5301.0, 5482.0, 5655.0, 5344.0, 5423.0, 5512.0, 5519.0, 5648.0, 5352.0, 5388.0, 5480.0, 5658.0, 5653.0, 5507.0, 5467.0, 5260.0, 5379.0, 5302.0, 5273.0, 5548.0, 5688.0, 5503.0, 5496.0, 5314.0, 5600.0, 5258.0, 5408.0, 5575.0
30	5290	9	1	333	1	5464.0, 5665.0, 5398.0, 5693.0, 5331.0, 5715.0, 5430.0, 5596.0, 5587.0, 5506.0, 5597.0, 5611.0, 5403.0, 5590.0, 5567.0, 5723.0, 5381.0, 5644.0, 5687.0, 5691.0, 5612.0, 5680.0, 5281.0, 5539.0, 5412.0, 5386.0, 5364.0, 5572.0, 5409.0, 5642.0, 5436.0, 5547.0, 5270.0, 5273.0, 5330.0, 5357.0, 5707.0, 5251.0, 5418.0, 5276.0, 5627.0, 5309.0, 5696.0, 5370.0, 5404.0, 5638.0, 5462.0, 5491.0, 5326.0, 5367.0, 5686.0, 5259.0, 5359.0, 5582.0, 5362.0, 5287.0, 5284.0, 5342.0, 5498.0, 5530.0, 5348.0, 5391.0, 5372.0, 5548.0, 5296.0,

						5389.0, 5676.0, 5315.0, 5621.0, 5379.0, 5442.0, 5378.0, 5716.0, 5640.0, 5617.0, 5606.0, 5514.0, 5545.0, 5675.0, 5608.0, 5474.0, 5533.0, 5283.0, 5469.0, 5560.0, 5581.0, 5698.0, 5637.0, 5468.0, 5518.0, 5322.0, 5561.0, 5274.0, 5450.0, 5267.0, 5655.0, 5313.0, 5652.0, 5347.0, 5449.0

5470-5725MHz, 20MHz Bandwidth

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	100 %	60%	Pass
Type 1B	15	100%		
Type 2	30	100 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	90 %	60%	Pass
Aggregate (Type1 to 4)	120	96.7 %	80%	Pass
Type 5	30	100%	80%	Pass
Type 6	30	93.3 %	70%	Pass

Please refer to the following statistical tables:

5500MHz:

Radar Type 1A Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	18	1	3066	1
2	5500	89	1	598	1
3	5500	65	1	818	1
4	5500	61	1	878	1
5	5500	92	1	578	1
6	5500	62	1	858	1
7	5500	86	1	618	1
8	5500	68	1	778	1
9	5500	58	1	918	1
10	5500	76	1	698	1
11	5500	74	1	718	1
12	5500	99	1	538	1
13	5500	72	1	738	1
14	5500	95	1	558	1
15	5500	70	1	758	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	5500	48	1	1122	1
2	5500	79	1	675	1
3	5500	49	1	1094	1
4	5500	38	1	1392	1
5	5500	48	1	1111	1
6	5500	38	1	1421	1
7	5500	71	1	752	1
8	5500	27	1	1966	1
9	5500	27	1	1956	1
10	5500	21	1	2630	1
11	5500	25	1	2177	1
12	5500	27	1	1987	1
13	5500	96	1	550	1
14	5500	22	1	2479	1
15	5500	35	1	1550	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	5500	25	3.3	189	1
2	5500	26	1.1	228	1
3	5500	28	2.7	191	1
4	5500	26	3.3	222	1
5	5500	29	4.2	171	1
6	5500	29	4	166	1
7	5500	28	2.6	202	1
8	5500	24	4.2	203	1
9	5500	29	3.1	213	1
10	5500	29	2.2	187	1
11	5500	24	2.6	227	1
12	5500	26	1.3	197	1
13	5500	24	1.4	216	1
14	5500	24	1	169	1
15	5500	29	2.3	196	1
16	5500	27	1.1	170	1
17	5500	28	3	176	1
18	5500	28	4.4	173	1
19	5500	29	4.7	214	1
20	5500	29	3.8	228	1
21	5500	24	3.3	218	1
22	5500	28	4.8	203	1
23	5500	28	1.6	180	1
24	5500	29	4.3	188	1
25	5500	28	2.2	219	1
26	5500	24	3.9	211	1
27	5500	27	4.8	228	1
28	5500	26	3.4	195	1
29	5500	27	2.1	182	1
30	5500	25	4.8	163	1
Detection Percentage: 100 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	17	8.8	430	1
2	5500	17	7.2	369	1
3	5500	17	6.7	353	1
4	5500	17	8.7	481	1
5	5500	16	7.4	210	1
6	5500	18	8.7	283	1
7	5500	17	6.9	466	1
8	5500	17	7.4	338	1
9	5500	16	6.3	219	0
10	5500	18	7.8	260	1
11	5500	16	8.2	364	1
12	5500	18	9.7	384	1
13	5500	17	7.7	460	1
14	5500	17	9.3	240	1
15	5500	17	8.6	264	1
16	5500	18	7.8	427	1
17	5500	18	7.9	301	1
18	5500	18	6.5	439	1
19	5500	17	6.3	214	1
20	5500	17	7.4	292	1
21	5500	17	9.1	453	1
22	5500	18	8.4	333	1
23	5500	16	8.6	205	1
24	5500	17	9	268	1
25	5500	16	10	463	1
26	5500	16	6.8	358	1
27	5500	16	8.4	396	1
28	5500	18	9.2	218	1
29	5500	18	8.4	257	1
30	5500	18	8.7	496	0
Detection Percentage: 93.3 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	16	13.2	226	1
2	5500	14	19.3	493	1
3	5500	13	18.1	445	1
4	5500	14	15.2	316	1
5	5500	12	18.2	425	1
6	5500	15	17.3	205	0
7	5500	14	15.6	360	1
8	5500	12	12.3	215	1
9	5500	15	19.6	440	1
10	5500	14	14.2	295	1
11	5500	12	19.6	368	1
12	5500	16	12.3	303	1
13	5500	15	17.5	420	1
14	5500	12	13.9	307	1
15	5500	15	19.7	226	0
16	5500	16	15	469	1
17	5500	12	12.3	250	1
18	5500	14	18.9	248	1
19	5500	13	15.6	281	1
20	5500	14	12.5	202	1
21	5500	16	19	337	0
22	5500	15	16.6	322	1
23	5500	12	17.3	414	1
24	5500	15	11	307	1
25	5500	12	12.3	426	1
26	5500	12	14.5	450	1
27	5500	16	20	385	1
28	5500	16	19.2	363	1
29	5500	13	18.4	340	1
30	5500	15	12.1	342	1
Detection Percentage: 90 % (>60%)					

Radar Type 5 Case1 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	12	84.9	1975	/	0.615802	1
1	3	12	55.7	1316	1186	1.105167	
2	2	12	69	1848	/	1.560826	
3	2	12	84.2	1530	/	2.291942	
4	3	12	73.4	1497	1033	2.682998	
5	2	12	52.5	1227	/	3.768548	
6	2	12	98.1	1948	/	4.600241	
7	3	12	57.8	1860	1385	5.235421	
8	3	12	70.8	1634	1062	5.805858	
9	2	12	59.3	1557	/	6.192374	
10	3	12	71.1	1787	1611	6.685084	
11	2	12	67.7	1585	/	7.899674	
12	2	12	61.2	1108	/	8.361089	
13	1	12	57.3	/	/	9.201576	
14	3	12	60.4	1966	1092	9.937499	
15	1	12	79.6	/	/	10.328667	
16	2	12	84.3	1062	/	10.668248	
17	1	12	95.4	/	/	11.55757	

Statistics 2 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	50.4	1295	/	0.876072	1
1	2	11	91.5	1636	/	1.170214	
2	3	11	85.1	1623	1195	2.931443	
3	3	11	68.2	1210	1475	3.186348	
4	3	11	69.2	1520	1225	4.134249	
5	1	11	69.7	/	/	5.673985	
6	2	11	74.1	1942	/	6.454021	
7	3	11	89.3	1710	1287	7.519986	
8	2	11	96.7	1523	/	8.344731	
9	3	11	72	1649	1139	9.009953	
10	1	11	76	/	/	10.312702	
11	1	11	85.2	/	/	11.401893	

Statistics 3 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	8	62.7	/	/	0.655434	1
1	3	8	92	1079	1209	1.539331	
2	1	8	50.1	/	/	2.888408	
3	1	8	66.3	/	/	3.195426	
4	1	8	55.2	/	/	4.394132	
5	3	8	62.2	1611	1388	5.241321	
6	3	8	82.1	1471	1680	6.918913	
7	2	8	98.2	1997	/	7.501737	
8	3	8	98	1262	1248	8.811602	
9	3	8	82.9	1124	1168	9.040949	
10	3	8	68.1	1106	1679	10.740327	
11	3	8	50	1625	1284	11.653746	

Statistics 4 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	62.6	1719	/	0.406645	1
1	1	11	67.3	/	/	2.344767	
2	1	11	60.1	/	/	3.483861	
3	1	11	96.3	/	/	4.190165	
4	2	11	61.9	1366	/	5.74477	
5	2	11	69.8	1828	/	6.00714	
6	2	11	50.6	1246	/	8.122752	
7	2	11	70	1871	/	8.524539	
8	2	11	81.5	1321	/	9.986824	
9	3	11	97.3	1165	1654	11.961797	

Statistics 5(ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	7	77.3	/	/	0.192869	
1	1	7	91.2	/	/	1.489443	
2	3	7	92	1676	1650	1.851836	
3	1	7	50.3	/	/	2.719739	
4	1	7	80.1	/	/	3.637674	
5	3	7	57.8	1180	1653	4.511881	
6	1	7	71.5	/	/	4.873944	
7	2	7	65.5	1660	/	5.745987	1
8	2	7	53.9	1141	/	7.170246	
9	3	7	69.3	1156	1595	7.391492	
10	2	7	55	1517	/	8.235435	
11	1	7	85.6	/	/	8.947149	
12	2	7	57.8	1501	/	9.68588	
13	1	7	61.5	/	/	10.647193	
14	2	7	62.5	1797	/	11.305807	

Statistics 6 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	5	86.2	/	/	0.826497	
1	2	5	80	1039	/	1.989786	
2	2	5	69.3	1743	/	2.902931	
3	3	5	92.6	1813	1546	4.366406	
4	1	5	72.9	/	/	5.767084	1
5	1	5	58.6	/	/	6.765306	
6	2	5	55.4	1143	/	8.610834	
7	3	5	91.2	1489	1491	10.470484	
8	1	5	51.8	/	/	10.918662	

Statistics 7(ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	6	93.6	1103	/	0.249797	
1	2	6	61.3	1338	/	0.825902	
2	2	6	83.6	1848	/	1.622454	
3	3	6	71.6	1266	1710	1.897203	
4	1	6	63.9	/	/	3.138625	
5	2	6	93.6	1284	/	3.410758	
6	1	6	94.3	/	/	4.047071	
7	2	6	88.5	1963	/	4.545357	
8	3	6	57.7	1637	1194	5.517392	
9	3	6	96.2	1381	1808	5.76284	1
10	2	6	84.5	1619	/	6.902815	
11	1	6	91.1	/	/	7.512408	
12	2	6	76	1202	/	7.709264	
13	2	6	57.6	1423	/	8.266357	
14	2	6	70.4	1562	/	9.27574	
15	2	6	59.3	1081	/	9.564775	
16	3	6	55.8	1781	1124	10.364717	
17	2	6	95.3	1539	/	10.977029	
18	1	6	59.8	/	/	11.662385	

Statistics 8 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	13	98.8	1399	/	0.728083	
1	2	13	87	1980	/	0.865887	
2	2	13	79	1801	/	1.971129	
3	2	13	94.4	1883	/	3.353339	
4	2	13	86.2	1381	/	3.882918	
5	3	13	62	1090	1792	4.981616	
6	2	13	79.6	1382	/	5.204811	
7	1	13	79.8	/	/	6.687149	1
8	3	13	75.5	1269	1391	7.258379	
9	3	13	52.6	1165	1927	8.491065	
10	2	13	79.9	1651	/	8.708977	
11	2	13	57.1	1886	/	9.629895	
12	2	13	62.4	1899	/	10.707946	
13	3	13	76.5	1006	1616	11.904618	

Statistics 9 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	13	67.1	1005	1852	0.62038	1
1	2	13	77.6	1064	/	1.609626	
2	2	13	54.5	1730	/	2.015448	
3	2	13	95.7	1202	/	3.039124	
4	1	13	88.4	/	/	3.721377	
5	2	13	71.2	1124	/	4.722833	
6	2	13	75.1	1522	/	5.572632	
7	1	13	90.9	/	/	6.723528	
8	2	13	59.5	1103	/	7.667808	
9	2	13	83	1888	/	8.675251	
10	1	13	92.4	/	/	9.729206	
11	2	13	97.2	1942	/	10.841609	
12	2	13	79.1	1369	/	11.715864	

Statistics 10 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	10	70.9	1078	/	0.145809	1
1	1	10	56.1	/	/	1.617267	
2	3	10	78.1	1465	1428	2.390113	
3	2	10	99.1	1642	/	2.79748	
4	2	10	53.5	1754	/	4.278607	
5	1	10	60.6	/	/	4.667231	
6	2	10	73.7	1853	/	5.230154	
7	2	10	65.7	1394	/	6.484207	
8	2	10	87.3	1698	/	7.309357	
9	2	10	58	1232	/	8.404695	
10	1	10	70.4	/	/	8.95701	
11	1	10	66.8	/	/	9.537941	
12	3	10	70.8	1579	1138	10.782895	
13	3	10	83.7	1641	1317	11.266896	

Radar Type 5 Case2 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5499 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	18	56.5	1658	/	0.349249	1
1	1	18	79.1	/	/	1.223794	
2	2	18	78.9	1856	/	1.645396	
3	2	18	61.4	1556	/	2.493469	
4	2	18	94.4	1834	/	3.242757	
5	1	18	67.6	/	/	4.48499	
6	2	18	78.6	1480	/	4.69721	
7	1	18	74.9	/	/	5.463254	
8	1	18	64.8	/	/	6.445814	
9	3	18	81.8	1875	1137	6.785526	
10	3	18	65.4	1967	1066	7.815012	
11	3	18	82.2	1476	1789	8.722569	
12	2	18	54.7	1716	/	9.227207	
13	2	18	96.1	1386	/	10.424693	
14	2	18	55.3	1081	/	10.63901	
15	1	18	53.3	/	/	11.330367	

Statistics 2 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	8	52.8	1062	1973	0.534294	1
1	2	8	68.2	1379	/	1.471261	
2	1	8	81.3	/	/	1.920562	
3	2	8	50.5	1336	/	2.89822	
4	3	8	69.4	1644	1986	3.453579	
5	1	8	54.1	/	/	4.113878	
6	3	8	75	1175	1829	4.517068	
7	2	8	73.7	1521	/	5.577701	
8	1	8	65.4	/	/	6.683504	
9	2	8	81.1	1370	/	7.3674	
10	2	8	72.3	1944	/	8.244328	
11	2	8	99.9	1272	/	8.375541	
12	1	8	59	/	/	9.43355	
13	2	8	98.2	1507	/	10.365603	
14	2	8	73.8	1405	/	11.245139	
15	2	8	75.3	1943	/	11.940719	

Statistics 3 (ChirpCenter Frequency: 5496 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	11	55.7	/	/	0.861332	1
1	2	11	79.8	1223	/	1.559465	
2	2	11	99.2	1978	/	3.140378	
3	3	11	74.3	1042	1615	4.825686	
4	2	11	50.5	1894	/	5.561981	
5	2	11	71	1554	/	7.023254	
6	2	11	73.7	1141	/	9.249337	
7	2	11	57.3	1952	/	9.388897	
8	1	11	72.6	/	/	11.843535	

Statistics 4 (ChirpCenter Frequency: 5497 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	13	57.2	1678	/	0.563597	1
1	3	13	56.2	1852	1574	1.29439	
2	3	13	88	1389	1215	2.284741	
3	2	13	95.7	1762	/	2.906896	
4	2	13	68.8	1586	/	3.485034	
5	2	13	87	1676	/	4.537931	
6	3	13	52.9	1874	1442	5.387659	
7	2	13	71.8	1298	/	6.198659	
8	2	13	67.3	1285	/	6.895654	
9	2	13	79.2	1674	/	7.52411	
10	3	13	58	1721	1019	8.473314	
11	2	13	83	1672	/	8.893045	
12	3	13	73.4	1532	1749	9.716485	
13	3	13	72.3	1379	1603	11.09248	
14	2	13	92.5	1335	/	11.886105	

Statistics 5(ChirpCenter Frequency: 5499 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	18	60.3	1448	1059	0.002659	1
1	3	18	77.4	1704	1842	0.912276	
2	2	18	73.5	1115	/	1.599276	
3	2	18	91.3	1461	/	2.540725	
4	2	18	89.6	1695	/	3.695723	
5	2	18	51.9	1275	/	3.952625	
6	1	18	94.2	/	/	4.796346	
7	3	18	72.9	1169	1799	5.617167	
8	3	18	61.4	1955	1696	6.491613	
9	2	18	52.2	1375	/	6.82524	
10	1	18	78.4	/	/	7.781761	
11	1	18	90.7	/	/	8.26856	
12	3	18	54.3	1567	1548	9.068144	
13	2	18	98.9	1313	/	10.036455	
14	3	18	61.4	1801	1692	10.559732	
15	3	18	81.8	1238	1735	11.681934	

Statistics 6 (ChirpCenter Frequency: 5494 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	7	66.3	/	/	0.462075	1
1	2	7	73.2	1115	/	0.957418	
2	3	7	90.7	1060	1986	1.217383	
3	2	7	63.3	1285	/	2.032993	
4	3	7	69	1075	1962	2.519203	
5	2	7	67.7	1959	/	3.36086	
6	2	7	80.1	1916	/	3.939121	
7	1	7	55	/	/	4.725707	
8	2	7	73	1348	/	5.379784	
9	3	7	95.9	1062	1392	5.959243	
10	2	7	75.4	1659	/	6.084375	
11	1	7	58.7	/	/	6.90643	
12	1	7	85	/	/	7.471439	
13	2	7	54.9	1791	/	7.854049	
14	2	7	52.4	1105	/	8.967655	
15	2	7	98.4	1807	/	9.227046	
16	2	7	95.9	1929	/	9.769051	
17	1	7	65.9	/	/	10.215295	
18	2	7	51.8	1001	/	11.206153	
19	1	7	66.6	/	/	11.612197	

Statistics 7(ChirpCenter Frequency: 5496 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	11	67.7	1774	1889	0.83525	1
1	2	11	71.5	1172	/	2.198475	
2	3	11	95.7	1113	1754	3.282961	
3	2	11	85.7	1124	/	4.206122	
4	3	11	72.1	1726	1998	6.219817	
5	2	11	60.1	1875	/	7.567458	
6	2	11	83.8	1938	/	8.802197	
7	2	11	78.3	1230	/	10.181385	
8	3	11	52	1805	1105	10.75289	

Statistics 8 (ChirpCenter Frequency: 5494 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	6	74.6	1064	1193	0.992534	1
1	1	6	52.8	/	/	1.446736	
2	3	6	61	1920	1135	2.608664	
3	2	6	95.9	1778	/	4.725649	
4	3	6	54.8	1249	1159	5.463795	
5	1	6	71.3	/	/	6.016663	
6	2	6	71.8	1068	/	7.218102	
7	2	6	56.6	1666	/	9.070208	
8	2	6	94.2	1057	/	10.571337	
9	2	6	95.6	1193	/	10.851905	

Statistics 9 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	9	77.8	1554	1832	0.22042	1
1	1	9	89.3	/	/	1.457393	
2	2	9	52.6	1425	/	2.534855	
3	2	9	93.5	1304	/	4.584999	
4	1	9	76.8	/	/	5.609728	
5	1	9	56.1	/	/	7.034889	
6	2	9	67.6	1506	/	8.249346	
7	2	9	83.3	1663	/	9.218381	
8	2	9	99.4	1936	/	10.180705	
9	2	9	92.9	1527	/	11.357969	

Statistics 10 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	20	93.6	1842	/	0.107751	1
1	3	20	76.1	1062	1658	0.721318	
2	2	20	70.6	1197	/	1.45459	
3	2	20	88.4	1298	/	2.153873	
4	2	20	57.6	1739	/	2.743704	
5	2	20	99.3	1905	/	3.183879	
6	3	20	97.5	1476	1787	4.005277	
7	2	20	73.7	1452	/	4.206838	
8	2	20	94.4	1232	/	4.962742	
9	3	20	60.7	1576	1625	5.418118	
10	2	20	57.7	1603	/	6.246641	
11	1	20	73.3	/	/	7.059088	
12	1	20	59.9	/	/	7.226782	
13	2	20	66.1	1222	/	8.171615	
14	2	20	86.1	1839	/	8.76939	
15	2	20	96.6	1093	/	9.027174	
16	2	20	86.7	1056	/	9.640637	
17	3	20	93.3	1064	1564	10.630312	
18	3	20	85.9	1075	1552	11.147527	
19	1	20	88.5	/	/	11.850083	

Radar Type 5 Case3 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5501 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	19	66.6	1557	/	0.273562	
1	2	19	72.6	1945	/	1.334603	
2	2	19	65.9	1237	/	1.953348	
3	2	19	79.2	1377	/	2.291239	
4	2	19	87.3	1486	/	3.089695	
5	2	19	97.5	1261	/	4.091369	
6	2	19	59.5	1122	/	4.502923	
7	2	19	82	1588	/	5.303609	
8	2	19	98.9	1409	/	6.002959	1
9	3	19	68.5	1984	1025	6.408741	
10	1	19	74.8	/	/	7.232264	
11	2	19	79.1	1185	/	8.203449	
12	2	19	63.6	1173	/	8.574532	
13	2	19	61.5	1217	/	9.253306	
14	2	19	72.8	1872	/	10.385154	
15	2	19	52.9	1215	/	10.626458	
16	2	19	65.1	1860	/	11.773835	

Statistics 2 (ChirpCenter Frequency: 5503 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	14	98.6	1699	1636	0.194256	
1	1	14	95.7	/	/	1.572865	
2	2	14	92	1484	/	2.024168	
3	3	14	57.1	1073	1472	3.048145	
4	3	14	87.5	1799	1531	3.274807	
5	2	14	95.8	1285	/	4.192932	
6	1	14	80.1	/	/	5.221478	
7	2	14	85.1	1100	/	6.158412	1
8	1	14	78.6	/	/	6.565777	
9	2	14	68.7	1517	/	7.993933	
10	2	14	62.8	1378	/	8.354033	
11	3	14	88.8	1181	1645	8.836429	
12	1	14	78.4	/	/	9.931627	
13	1	14	70.2	/	/	10.456922	
14	3	14	60.2	1839	1569	11.626572	

Statistics 3 (ChirpCenter Frequency: 5502 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	15	99.9	1297	/	0.057691	1
1	1	15	54.8	/	/	0.88734	
2	2	15	96.3	1790	/	1.721656	
3	3	15	66.9	1330	1824	2.716736	
4	2	15	87.3	1076	/	3.582359	
5	3	15	86.5	1078	1023	4.333187	
6	2	15	98.7	1376	/	4.902259	
7	3	15	84.2	1833	1303	5.877416	
8	3	15	91.3	1099	1043	6.302262	
9	2	15	51.5	1023	/	7.106492	
10	2	15	87.9	1682	/	8.13239	
11	3	15	57.4	1330	1412	8.28964	
12	2	15	96.4	1152	/	9.590529	
13	2	15	87.7	2000	/	10.112056	
14	1	15	80.2	/	/	11.153777	
15	1	15	51	/	/	11.58758	

Statistics 4 (ChirpCenter Frequency: 5501 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	18	52.8	1717	/	0.789451	1
1	2	18	66.2	1183	/	1.256076	
2	3	18	80.1	1189	1659	2.150283	
3	3	18	55.5	1432	1074	2.869977	
4	2	18	62.8	1517	/	3.853005	
5	2	18	99.1	1070	/	5.417546	
6	3	18	72.8	1137	1054	6.417095	
7	2	18	77.5	1801	/	6.713497	
8	3	18	51.7	1670	1164	7.85143	
9	3	18	99.4	1949	1539	9.167552	
10	2	18	87.1	1844	/	10.024958	
11	1	18	89.3	/	/	10.38428	
12	1	18	95.6	/	/	11.16872	

Statistics 5(ChirpCenter Frequency: 5503 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	13	81.8	1687	1761	0.084227	1
1	3	13	93.9	1228	1038	1.594511	
2	2	13	82.6	1109	/	1.76744	
3	3	13	50.2	1447	1761	3.320571	
4	2	13	64.8	1934	/	3.923184	
5	2	13	74.5	1963	/	4.705441	
6	3	13	87.5	1458	1797	5.260532	
7	3	13	60.1	1107	1641	6.687759	
8	2	13	64.4	1267	/	7.372204	
9	1	13	74.2	/	/	7.735643	
10	3	13	71.9	1752	1917	8.681043	
11	3	13	98.7	1846	1325	9.797854	
12	3	13	69.3	1174	1221	10.993657	
13	2	13	50.1	1610	/	11.343269	

Statistics 6 (ChirpCenter Frequency: 5502 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	97.1	1105	/	0.017436	1
1	3	16	71	1828	1405	1.511706	
2	1	16	89.8	/	/	1.851869	
3	2	16	67.2	1736	/	3.079863	
4	3	16	87.3	1401	1556	3.686722	
5	3	16	82.2	1441	1260	4.705699	
6	2	16	59.1	1423	/	5.781573	
7	2	16	54.8	1474	/	6.561261	
8	1	16	83.7	/	/	7.412041	
9	3	16	84.5	1952	1528	8.365693	
10	2	16	83	1349	/	9.229331	
11	3	16	75.4	1463	1316	9.79806	
12	3	16	84.6	1798	1480	10.328764	
13	3	16	93.4	1219	1053	11.401969	

Statistics 7(ChirpCenter Frequency: 5502 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	54.3	1600	/	0.293004	1
1	2	16	70.8	1125	/	1.212719	
2	2	16	85	1767	/	1.923665	
3	2	16	87.7	1227	/	2.619442	
4	2	16	51.8	1061	/	3.635769	
5	2	16	99.8	1880	/	3.791016	
6	1	16	96	/	/	5.003057	
7	3	16	68.9	1657	1955	5.647278	
8	1	16	55.3	/	/	6.481219	
9	2	16	79.3	1232	/	7.367205	
10	3	16	61.2	1779	1629	7.699952	
11	1	16	97	/	/	8.817819	
12	1	16	87.7	/	/	9.133864	
13	1	16	98.7	/	/	9.997982	
14	3	16	69.2	1255	1084	10.907735	
15	3	16	60.7	1492	1883	11.282649	

Statistics 8 (ChirpCenter Frequency: 5506 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	5	92.7	1645	/	0.6113	1
1	2	5	77.6	1359	/	0.723469	
2	2	5	98.5	1049	/	1.95778	
3	1	5	92.6	/	/	2.151411	
4	1	5	60.9	/	/	3.463082	
5	3	5	53.7	1406	1152	4.150349	
6	2	5	66	1536	/	4.430797	
7	2	5	82.3	1093	/	5.213457	
8	2	5	76.5	1195	/	5.700792	
9	1	5	85.4	/	/	6.557331	
10	1	5	86	/	/	7.226534	
11	2	5	59.4	1153	/	8.221776	
12	3	5	81.8	1796	1472	8.646477	
13	2	5	63.9	1088	/	9.590411	
14	3	5	56.6	1663	1812	10.297744	
15	3	5	62.9	1114	1903	11.266258	
16	2	5	72.4	1244	/	11.728546	

Statistics 9 (ChirpCenter Frequency: 5506 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	7	91.4	1690	1986	0.147035	1
1	2	7	83.9	1767	/	1.354569	
2	2	7	66.9	1528	/	2.268198	
3	1	7	88.2	/	/	2.458914	
4	1	7	98.9	/	/	3.698496	
5	3	7	53.7	1971	1644	4.360923	
6	3	7	68.7	1729	1396	5.092051	
7	3	7	66.3	1046	1516	6.360182	
8	2	7	96	1371	/	7.102607	
9	3	7	54.8	1001	1955	7.412729	
10	2	7	92.4	1474	/	8.76982	
11	3	7	55.9	1415	1113	8.825663	
12	3	7	71.2	1850	1616	9.707012	
13	2	7	78.2	1372	/	10.941519	
14	2	7	98.8	1259	/	11.467981	

Statistics 10 (ChirpCenter Frequency: 5506 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	6	93.3	1094	/	0.042092	1
1	2	6	63.6	1394	/	0.974461	
2	3	6	78.9	1997	1289	2.344008	
3	3	6	76.1	1806	1215	2.626463	
4	2	6	80.6	1485	/	3.703007	
5	2	6	70.7	1410	/	4.418157	
6	2	6	66.3	1714	/	5.891717	
7	2	6	59.7	1147	/	6.055849	
8	1	6	93.2	/	/	6.904056	
9	1	6	74.7	/	/	8.002246	
10	2	6	50.1	1871	/	9.287867	
11	1	6	55.4	/	/	9.566807	
12	2	6	70.1	1419	/	10.966609	
13	3	6	84.6	1192	1847	11.294867	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (GHz)
1	5500	9	1	333	0	/
2	5500	9	1	333	1	5630.0, 5453.0, 5577.0, 5629.0, 5273.0, 5714.0, 5391.0, 5261.0, 5583.0, 5549.0, 5468.0, 5485.0, 5383.0, 5556.0, 5662.0, 5619.0, 5690.0, 5640.0, 5646.0, 5564.0, 5477.0, 5290.0, 5460.0, 5389.0, 5369.0, 5309.0, 5654.0, 5590.0, 5348.0, 5325.0, 5470.0, 5709.0, 5394.0, 5500.0, 5306.0, 5699.0, 5661.0, 5408.0, 5328.0, 5566.0, 5644.0, 5482.0, 5361.0, 5669.0, 5454.0, 5517.0, 5510.0, 5396.0, 5534.0, 5324.0, 5315.0, 5487.0, 5426.0, 5493.0, 5558.0, 5436.0, 5466.0, 5705.0, 5259.0, 5439.0, 5275.0, 5622.0, 5362.0, 5410.0, 5300.0, 5270.0, 5431.0, 5350.0, 5509.0, 5301.0, 5663.0, 5688.0, 5506.0, 5573.0, 5617.0, 5316.0, 5444.0, 5553.0, 5360.0, 5473.0, 5374.0, 5536.0, 5567.0, 5621.0, 5465.0, 5664.0, 5526.0, 5399.0, 5624.0, 5659.0, 5496.0, 5265.0, 5478.0, 5406.0, 5657.0, 5607.0, 5400.0, 5278.0, 5597.0, 5695.0
3	5500	9	1	333	1	5482.0, 5391.0, 5626.0, 5604.0, 5426.0, 5286.0, 5627.0, 5538.0, 5434.0, 5288.0, 5369.0, 5323.0, 5263.0, 5575.0, 5467.0, 5512.0, 5336.0, 5648.0, 5561.0, 5262.0, 5519.0, 5320.0, 5337.0, 5608.0, 5514.0, 5504.0, 5479.0, 5287.0, 5700.0, 5578.0, 5444.0, 5280.0, 5689.0, 5291.0, 5303.0, 5406.0, 5437.0, 5284.0, 5363.0, 5688.0, 5267.0, 5632.0, 5499.0, 5306.0, 5457.0, 5660.0, 5311.0, 5377.0, 5656.0, 5717.0, 5642.0, 5278.0, 5401.0, 5293.0, 5438.0, 5356.0, 5521.0, 5664.0, 5446.0, 5719.0, 5397.0, 5475.0, 5427.0, 5308.0, 5677.0, 5502.0, 5266.0, 5527.0, 5353.0, 5471.0, 5324.0, 5305.0, 5559.0, 5525.0, 5442.0, 5622.0, 5421.0, 5654.0, 5574.0, 5638.0, 5621.0, 5256.0, 5531.0, 5551.0, 5407.0, 5348.0, 5492.0, 5507.0, 5453.0, 5518.0, 5718.0, 5682.0, 5535.0, 5721.0, 5614.0, 5496.0, 5546.0, 5270.0, 5364.0, 5389.0
4	5500	9	1	333	1	5287.0, 5679.0, 5577.0, 5528.0, 5527.0, 5701.0, 5401.0, 5668.0, 5429.0, 5570.0, 5471.0, 5404.0, 5431.0, 5499.0, 5482.0, 5406.0, 5310.0, 5307.0, 5297.0, 5395.0, 5345.0, 5582.0, 5450.0, 5400.0, 5494.0, 5576.0, 5397.0, 5631.0, 5522.0, 5599.0, 5284.0, 5425.0, 5387.0, 5419.0, 5551.0, 5640.0, 5315.0, 5358.0, 5512.0, 5684.0, 5319.0, 5546.0, 5313.0, 5555.0, 5525.0, 5550.0, 5517.0, 5337.0, 5501.0, 5519.0, 5273.0, 5591.0, 5408.0, 5485.0, 5603.0, 5560.0, 5572.0, 5616.0, 5634.0, 5515.0,

						5604.0, 5294.0, 5717.0, 5655.0, 5636.0, 5449.0, 5549.0, 5261.0, 5587.0, 5371.0, 5300.0, 5405.0, 5585.0, 5581.0, 5699.0, 5698.0, 5558.0, 5610.0, 5586.0, 5390.0, 5632.0, 5605.0, 5526.0, 5568.0, 5637.0, 5484.0, 5252.0, 5328.0, 5442.0, 5467.0, 5542.0, 5723.0, 5336.0, 5593.0, 5299.0, 5677.0, 5439.0, 5505.0, 5427.0, 5255.0
5	5500	9	1	333	1	5523.0, 5261.0, 5284.0, 5424.0, 5515.0, 5687.0, 5544.0, 5509.0, 5718.0, 5446.0, 5681.0, 5487.0, 5672.0, 5360.0, 5374.0, 5393.0, 5319.0, 5466.0, 5437.0, 5423.0, 5550.0, 5334.0, 5574.0, 5396.0, 5650.0, 5451.0, 5517.0, 5663.0, 5402.0, 5537.0, 5482.0, 5478.0, 5412.0, 5692.0, 5498.0, 5292.0, 5645.0, 5646.0, 5620.0, 5438.0, 5454.0, 5531.0, 5316.0, 5456.0, 5554.0, 5628.0, 5673.0, 5525.0, 5483.0, 5611.0, 5496.0, 5596.0, 5557.0, 5579.0, 5395.0, 5465.0, 5323.0, 5430.0, 5346.0, 5695.0, 5642.0, 5253.0, 5511.0, 5707.0, 5461.0, 5307.0, 5386.0, 5665.0, 5308.0, 5390.0, 5262.0, 5569.0, 5413.0, 5337.0, 5407.0, 5287.0, 5647.0, 5275.0, 5263.0, 5508.0, 5256.0, 5536.0, 5363.0, 5324.0, 5431.0, 5555.0, 5719.0, 5652.0, 5373.0, 5260.0, 5397.0, 5621.0, 5614.0, 5562.0, 5538.0, 5375.0, 5485.0, 5585.0, 5618.0, 5690.0
6	5500	9	1	333	1	5608.0, 5585.0, 5632.0, 5386.0, 5257.0, 5525.0, 5385.0, 5584.0, 5395.0, 5336.0, 5586.0, 5571.0, 5312.0, 5617.0, 5663.0, 5527.0, 5649.0, 5323.0, 5643.0, 5367.0, 5696.0, 5509.0, 5676.0, 5472.0, 5570.0, 5693.0, 5562.0, 5654.0, 5620.0, 5306.0, 5455.0, 5698.0, 5289.0, 5619.0, 5294.0, 5456.0, 5320.0, 5329.0, 5596.0, 5681.0, 5469.0, 5610.0, 5618.0, 5275.0, 5497.0, 5418.0, 5384.0, 5677.0, 5262.0, 5682.0, 5528.0, 5355.0, 5624.0, 5394.0, 5272.0, 5343.0, 5508.0, 5427.0, 5334.0, 5633.0, 5468.0, 5301.0, 5380.0, 5723.0, 5713.0, 5605.0, 5704.0, 5344.0, 5577.0, 5443.0, 5256.0, 5437.0, 5317.0, 5567.0, 5595.0, 5659.0, 5560.0, 5521.0, 5701.0, 5622.0, 5536.0, 5494.0, 5296.0, 5510.0, 5304.0, 5357.0, 5555.0, 5415.0, 5440.0, 5265.0, 5360.0, 5476.0, 5302.0, 5724.0, 5269.0, 5285.0, 5578.0, 5361.0, 5720.0, 5404.0
7	5500	9	1	333	1	5259.0, 5516.0, 5526.0, 5541.0, 5323.0, 5534.0, 5427.0, 5558.0, 5470.0, 5456.0, 5274.0, 5269.0, 5586.0, 5458.0, 5662.0, 5523.0, 5628.0, 5498.0, 5595.0, 5331.0, 5285.0, 5688.0, 5641.0, 5367.0, 5573.0, 5513.0, 5644.0, 5686.0, 5349.0, 5666.0, 5354.0, 5590.0, 5536.0, 5561.0, 5301.0, 5650.0, 5282.0, 5341.0, 5700.0, 5560.0, 5623.0, 5524.0, 5639.0, 5284.0, 5426.0, 5371.0, 5596.0, 5322.0, 5425.0, 5712.0, 5507.0, 5704.0, 5472.0, 5413.0, 5600.0, 5538.0, 5671.0, 5496.0, 5429.0, 5559.0,

						5278.0, 5330.0, 5572.0, 5531.0, 5594.0, 5300.0, 5406.0, 5645.0, 5546.0, 5718.0, 5551.0, 5499.0, 5326.0, 5497.0, 5665.0, 5667.0, 5509.0, 5251.0, 5257.0, 5613.0, 5449.0, 5591.0, 5337.0, 5288.0, 5635.0, 5290.0, 5511.0, 5424.0, 5280.0, 5306.0, 5378.0, 5525.0, 5451.0, 5268.0, 5408.0, 5719.0, 5294.0, 5512.0, 5565.0, 5633.0
8	5500	9	1	333	1	5595.0, 5354.0, 5557.0, 5671.0, 5643.0, 5344.0, 5630.0, 5301.0, 5677.0, 5569.0, 5377.0, 5293.0, 5590.0, 5573.0, 5429.0, 5261.0, 5713.0, 5712.0, 5685.0, 5490.0, 5518.0, 5502.0, 5544.0, 5359.0, 5451.0, 5708.0, 5570.0, 5323.0, 5537.0, 5406.0, 5722.0, 5706.0, 5385.0, 5343.0, 5678.0, 5394.0, 5376.0, 5427.0, 5287.0, 5455.0, 5548.0, 5299.0, 5509.0, 5700.0, 5310.0, 5653.0, 5260.0, 5519.0, 5586.0, 5580.0, 5369.0, 5315.0, 5374.0, 5666.0, 5489.0, 5387.0, 5395.0, 5639.0, 5601.0, 5553.0, 5620.0, 5367.0, 5411.0, 5288.0, 5511.0, 5674.0, 5715.0, 5702.0, 5559.0, 5294.0, 5622.0, 5484.0, 5383.0, 5436.0, 5468.0, 5337.0, 5567.0, 5439.0, 5309.0, 5574.0, 5581.0, 5393.0, 5441.0, 5360.0, 5631.0, 5503.0, 5333.0, 5373.0, 5282.0, 5492.0, 5316.0, 5617.0, 5561.0, 5452.0, 5615.0, 5481.0, 5378.0, 5650.0, 5366.0, 5568.0
9	5500	9	1	333	1	5521.0, 5522.0, 5697.0, 5677.0, 5525.0, 5673.0, 5335.0, 5656.0, 5320.0, 5400.0, 5650.0, 5362.0, 5297.0, 5703.0, 5412.0, 5563.0, 5576.0, 5312.0, 5288.0, 5345.0, 5495.0, 5368.0, 5578.0, 5360.0, 5480.0, 5549.0, 5636.0, 5293.0, 5323.0, 5579.0, 5560.0, 5366.0, 5564.0, 5349.0, 5687.0, 5669.0, 5462.0, 5363.0, 5468.0, 5380.0, 5287.0, 5329.0, 5574.0, 5593.0, 5600.0, 5342.0, 5721.0, 5631.0, 5436.0, 5681.0, 5423.0, 5324.0, 5541.0, 5705.0, 5518.0, 5581.0, 5556.0, 5610.0, 5546.0, 5707.0, 5298.0, 5506.0, 5286.0, 5539.0, 5606.0, 5371.0, 5390.0, 5580.0, 5640.0, 5387.0, 5364.0, 5352.0, 5691.0, 5415.0, 5474.0, 5568.0, 5407.0, 5517.0, 5389.0, 5339.0, 5651.0, 5554.0, 5671.0, 5624.0, 5347.0, 5350.0, 5570.0, 5252.0, 5414.0, 5294.0, 5720.0, 5498.0, 5457.0, 5426.0, 5466.0, 5605.0, 5406.0, 5501.0, 5254.0, 5273.0
10	5500	9	1	333	1	5438.0, 5488.0, 5391.0, 5581.0, 5327.0, 5384.0, 5608.0, 5497.0, 5298.0, 5348.0, 5476.0, 5289.0, 5442.0, 5485.0, 5447.0, 5281.0, 5399.0, 5454.0, 5623.0, 5532.0, 5591.0, 5433.0, 5649.0, 5267.0, 5495.0, 5346.0, 5417.0, 5470.0, 5599.0, 5512.0, 5607.0, 5436.0, 5475.0, 5312.0, 5464.0, 5663.0, 5413.0, 5563.0, 5284.0, 5268.0, 5544.0, 5490.0, 5319.0, 5697.0, 5676.0, 5713.0, 5307.0, 5292.0, 5265.0, 5700.0, 5450.0, 5692.0, 5406.0, 5484.0, 5387.0, 5420.0, 5443.0, 5409.0, 5361.0, 5644.0,

						5275.0, 5325.0, 5625.0, 5640.0, 5678.0, 5308.0, 5410.0, 5579.0, 5522.0, 5503.0, 5435.0, 5398.0, 5531.0, 5639.0, 5636.0, 5564.0, 5412.0, 5310.0, 5592.0, 5359.0, 5543.0, 5668.0, 5303.0, 5550.0, 5370.0, 5654.0, 5614.0, 5253.0, 5402.0, 5670.0, 5380.0, 5304.0, 5269.0, 5313.0, 5609.0, 5451.0, 5632.0, 5498.0, 5415.0, 5366.0
11	5500	9	1	333	0	/
12	5500	9	1	333	1	5434.0, 5449.0, 5546.0, 5569.0, 5369.0, 5383.0, 5450.0, 5709.0, 5513.0, 5267.0, 5650.0, 5656.0, 5471.0, 5584.0, 5616.0, 5587.0, 5586.0, 5536.0, 5551.0, 5311.0, 5534.0, 5638.0, 5678.0, 5426.0, 5556.0, 5428.0, 5592.0, 5558.0, 5438.0, 5570.0, 5488.0, 5582.0, 5679.0, 5559.0, 5480.0, 5269.0, 5522.0, 5701.0, 5412.0, 5294.0, 5498.0, 5636.0, 5550.0, 5664.0, 5253.0, 5602.0, 5487.0, 5706.0, 5413.0, 5544.0, 5382.0, 5552.0, 5669.0, 5284.0, 5599.0, 5427.0, 5682.0, 5463.0, 5613.0, 5583.0, 5708.0, 5466.0, 5370.0, 5355.0, 5468.0, 5252.0, 5505.0, 5251.0, 5580.0, 5681.0, 5496.0, 5363.0, 5516.0, 5423.0, 5660.0, 5478.0, 5695.0, 5290.0, 5690.0, 5264.0, 5408.0, 5532.0, 5655.0, 5501.0, 5517.0, 5628.0, 5285.0, 5635.0, 5493.0, 5459.0, 5256.0, 5692.0, 5342.0, 5525.0, 5271.0, 5510.0, 5332.0, 5723.0, 5339.0, 5391.0
13	5500	9	1	333	1	5286.0, 5295.0, 5682.0, 5652.0, 5325.0, 5502.0, 5256.0, 5591.0, 5555.0, 5371.0, 5348.0, 5586.0, 5610.0, 5603.0, 5318.0, 5584.0, 5412.0, 5678.0, 5703.0, 5462.0, 5485.0, 5690.0, 5423.0, 5363.0, 5625.0, 5561.0, 5715.0, 5398.0, 5717.0, 5553.0, 5629.0, 5369.0, 5480.0, 5644.0, 5716.0, 5260.0, 5492.0, 5691.0, 5304.0, 5357.0, 5628.0, 5497.0, 5284.0, 5316.0, 5306.0, 5320.0, 5692.0, 5509.0, 5563.0, 5634.0, 5489.0, 5707.0, 5632.0, 5675.0, 5368.0, 5386.0, 5698.0, 5596.0, 5514.0, 5279.0, 5668.0, 5674.0, 5422.0, 5700.0, 5620.0, 5413.0, 5701.0, 5518.0, 5347.0, 5487.0, 5556.0, 5615.0, 5444.0, 5503.0, 5655.0, 5324.0, 5359.0, 5263.0, 5464.0, 5463.0, 5455.0, 5351.0, 5600.0, 5631.0, 5500.0, 5303.0, 5510.0, 5420.0, 5258.0, 5526.0, 5436.0, 5642.0, 5534.0, 5329.0, 5646.0, 5654.0, 5341.0, 5360.0, 5520.0, 5449.0
14	5500	9	1	333	1	5724.0, 5331.0, 5299.0, 5524.0, 5518.0, 5451.0, 5695.0, 5405.0, 5633.0, 5270.0, 5646.0, 5392.0, 5650.0, 5259.0, 5359.0, 5488.0, 5553.0, 5520.0, 5702.0, 5477.0, 5449.0, 5348.0, 5415.0, 5362.0, 5584.0, 5422.0, 5721.0, 5256.0, 5527.0, 5492.0, 5317.0, 5292.0, 5694.0, 5262.0, 5380.0, 5419.0, 5339.0, 5360.0, 5546.0, 5545.0, 5601.0, 5386.0, 5597.0, 5371.0, 5591.0, 5329.0, 5659.0, 5394.0, 5710.0, 5719.0, 5525.0, 5636.0, 5260.0, 5690.0, 5571.0,

						5337.0, 5558.0, 5572.0, 5261.0, 5544.0, 5269.0, 5457.0, 5567.0, 5396.0, 5564.0, 5582.0, 5697.0, 5376.0, 5482.0, 5293.0, 5502.0, 5537.0, 5639.0, 5499.0, 5505.0, 5275.0, 5493.0, 5423.0, 5344.0, 5266.0, 5631.0, 5598.0, 5291.0, 5351.0, 5387.0, 5658.0, 5382.0, 5338.0, 5671.0, 5531.0, 5655.0, 5521.0, 5476.0, 5684.0, 5526.0, 5614.0, 5511.0, 5576.0, 5447.0, 5661.0
15	5500	9	1	333	1	5716.0, 5438.0, 5384.0, 5321.0, 5439.0, 5723.0, 5339.0, 5300.0, 5495.0, 5701.0, 5428.0, 5423.0, 5402.0, 5581.0, 5401.0, 5625.0, 5572.0, 5689.0, 5618.0, 5624.0, 5590.0, 5308.0, 5288.0, 5386.0, 5453.0, 5282.0, 5263.0, 5511.0, 5437.0, 5269.0, 5405.0, 5718.0, 5272.0, 5646.0, 5559.0, 5592.0, 5312.0, 5403.0, 5481.0, 5704.0, 5452.0, 5665.0, 5398.0, 5607.0, 5544.0, 5286.0, 5552.0, 5658.0, 5693.0, 5279.0, 5489.0, 5478.0, 5580.0, 5671.0, 5536.0, 5682.0, 5393.0, 5561.0, 5631.0, 5377.0, 5375.0, 5660.0, 5697.0, 5558.0, 5351.0, 5336.0, 5560.0, 5707.0, 5264.0, 5605.0, 5571.0, 5680.0, 5456.0, 5497.0, 5496.0, 5602.0, 5306.0, 5410.0, 5599.0, 5578.0, 5614.0, 5475.0, 5277.0, 5464.0, 5299.0, 5397.0, 5683.0, 5696.0, 5520.0, 5285.0, 5508.0, 5556.0, 5670.0, 5626.0, 5389.0, 5417.0, 5524.0, 5528.0, 5395.0, 5484.0
16	5500	9	1	333	1	5265.0, 5448.0, 5627.0, 5638.0, 5324.0, 5658.0, 5559.0, 5467.0, 5361.0, 5705.0, 5376.0, 5646.0, 5487.0, 5607.0, 5532.0, 5311.0, 5673.0, 5551.0, 5461.0, 5287.0, 5660.0, 5604.0, 5544.0, 5490.0, 5622.0, 5504.0, 5724.0, 5702.0, 5382.0, 5636.0, 5722.0, 5568.0, 5481.0, 5546.0, 5274.0, 5300.0, 5539.0, 5406.0, 5308.0, 5628.0, 5301.0, 5558.0, 5353.0, 5270.0, 5616.0, 5663.0, 5411.0, 5650.0, 5489.0, 5425.0, 5656.0, 5700.0, 5433.0, 5625.0, 5407.0, 5401.0, 5684.0, 5498.0, 5563.0, 5639.0, 5513.0, 5357.0, 5462.0, 5404.0, 5517.0, 5511.0, 5626.0, 5679.0, 5680.0, 5350.0, 5706.0, 5279.0, 5698.0, 5329.0, 5528.0, 5578.0, 5310.0, 5387.0, 5380.0, 5430.0, 5316.0, 5378.0, 5285.0, 5541.0, 5540.0, 5427.0, 5321.0, 5484.0, 5252.0, 5668.0, 5564.0, 5591.0, 5365.0, 5496.0, 5335.0, 5466.0, 5651.0, 5602.0, 5714.0, 5612.0
17	5500	9	1	333	1	5667.0, 5282.0, 5615.0, 5698.0, 5642.0, 5418.0, 5565.0, 5570.0, 5465.0, 5402.0, 5649.0, 5298.0, 5262.0, 5328.0, 5720.0, 5389.0, 5462.0, 5483.0, 5441.0, 5580.0, 5330.0, 5525.0, 5680.0, 5591.0, 5351.0, 5303.0, 5307.0, 5257.0, 5438.0, 5693.0, 5636.0, 5722.0, 5628.0, 5640.0, 5284.0, 5266.0, 5439.0, 5279.0, 5633.0, 5322.0, 5632.0, 5379.0, 5415.0, 5292.0, 5668.0, 5470.0, 5285.0, 5711.0, 5301.0, 5689.0, 5519.0, 5437.0, 5501.0, 5637.0, 5657.0,

						5555.0, 5543.0, 5467.0, 5411.0, 5457.0, 5494.0, 5323.0, 5255.0, 5515.0, 5278.0, 5498.0, 5645.0, 5598.0, 5333.0, 5671.0, 5367.0, 5377.0, 5551.0, 5647.0, 5392.0, 5364.0, 5386.0, 5571.0, 5684.0, 5495.0, 5681.0, 5508.0, 5370.0, 5531.0, 5276.0, 5613.0, 5413.0, 5590.0, 5492.0, 5342.0, 5506.0, 5463.0, 5585.0, 5417.0, 5537.0, 5610.0, 5280.0, 5368.0, 5289.0, 5660.0
18	5500	9	1	333	1	5394.0, 5251.0, 5529.0, 5422.0, 5362.0, 5337.0, 5390.0, 5408.0, 5315.0, 5302.0, 5369.0, 5453.0, 5360.0, 5448.0, 5432.0, 5294.0, 5550.0, 5454.0, 5312.0, 5561.0, 5434.0, 5273.0, 5279.0, 5683.0, 5536.0, 5462.0, 5652.0, 5722.0, 5280.0, 5352.0, 5258.0, 5689.0, 5265.0, 5299.0, 5344.0, 5348.0, 5400.0, 5378.0, 5633.0, 5474.0, 5711.0, 5582.0, 5321.0, 5385.0, 5361.0, 5686.0, 5392.0, 5350.0, 5598.0, 5298.0, 5368.0, 5665.0, 5484.0, 5579.0, 5487.0, 5716.0, 5418.0, 5497.0, 5719.0, 5431.0, 5502.0, 5329.0, 5405.0, 5520.0, 5320.0, 5508.0, 5507.0, 5636.0, 5257.0, 5388.0, 5646.0, 5285.0, 5425.0, 5606.0, 5611.0, 5492.0, 5614.0, 5289.0, 5670.0, 5290.0, 5297.0, 5564.0, 5648.0, 5269.0, 5676.0, 5370.0, 5504.0, 5310.0, 5264.0, 5621.0, 5572.0, 5429.0, 5516.0, 5629.0, 5458.0, 5545.0, 5610.0, 5334.0, 5325.0, 5457.0
19	5500	9	1	333	1	5503.0, 5277.0, 5380.0, 5496.0, 5540.0, 5344.0, 5522.0, 5259.0, 5712.0, 5628.0, 5354.0, 5263.0, 5275.0, 5627.0, 5266.0, 5576.0, 5445.0, 5279.0, 5709.0, 5281.0, 5478.0, 5430.0, 5254.0, 5531.0, 5681.0, 5444.0, 5404.0, 5429.0, 5592.0, 5399.0, 5625.0, 5434.0, 5615.0, 5407.0, 5413.0, 5521.0, 5408.0, 5347.0, 5658.0, 5483.0, 5710.0, 5345.0, 5664.0, 5284.0, 5701.0, 5473.0, 5537.0, 5294.0, 5598.0, 5518.0, 5258.0, 5623.0, 5520.0, 5393.0, 5358.0, 5342.0, 5532.0, 5491.0, 5558.0, 5462.0, 5620.0, 5641.0, 5589.0, 5388.0, 5463.0, 5495.0, 5425.0, 5476.0, 5280.0, 5482.0, 5711.0, 5373.0, 5526.0, 5666.0, 5590.0, 5421.0, 5436.0, 5460.0, 5337.0, 5391.0, 5346.0, 5678.0, 5271.0, 5419.0, 5557.0, 5298.0, 5410.0, 5443.0, 5636.0, 5331.0, 5453.0, 5389.0, 5694.0, 5722.0, 5651.0, 5291.0, 5293.0, 5390.0, 5545.0, 5508.0
20	5500	9	1	333	1	5332.0, 5605.0, 5520.0, 5540.0, 5582.0, 5580.0, 5614.0, 5446.0, 5470.0, 5497.0, 5349.0, 5399.0, 5637.0, 5416.0, 5475.0, 5639.0, 5619.0, 5585.0, 5704.0, 5397.0, 5285.0, 5705.0, 5571.0, 5718.0, 5559.0, 5522.0, 5613.0, 5341.0, 5351.0, 5367.0, 5656.0, 5555.0, 5570.0, 5706.0, 5485.0, 5537.0, 5264.0, 5375.0, 5526.0, 5601.0, 5589.0, 5423.0, 5678.0, 5642.0, 5333.0, 5634.0, 5514.0, 5666.0, 5461.0, 5486.0, 5610.0, 5501.0, 5283.0, 5321.0, 5396.0,

						5506.0, 5691.0, 5653.0, 5629.0, 5550.0, 5512.0, 5427.0, 5593.0, 5368.0, 5688.0, 5482.0, 5525.0, 5612.0, 5430.0, 5286.0, 5630.0, 5440.0, 5256.0, 5661.0, 5529.0, 5541.0, 5387.0, 5443.0, 5328.0, 5357.0, 5673.0, 5535.0, 5638.0, 5262.0, 5377.0, 5491.0, 5530.0, 5609.0, 5391.0, 5513.0, 5633.0, 5669.0, 5603.0, 5564.0, 5361.0, 5489.0, 5660.0, 5628.0, 5686.0, 5587.0
21	5500	9	1	333	1	5437.0, 5526.0, 5706.0, 5488.0, 5548.0, 5655.0, 5678.0, 5721.0, 5717.0, 5669.0, 5630.0, 5539.0, 5277.0, 5628.0, 5592.0, 5399.0, 5349.0, 5521.0, 5634.0, 5438.0, 5267.0, 5563.0, 5355.0, 5288.0, 5323.0, 5626.0, 5258.0, 5420.0, 5434.0, 5700.0, 5603.0, 5291.0, 5275.0, 5337.0, 5305.0, 5579.0, 5648.0, 5271.0, 5270.0, 5378.0, 5408.0, 5422.0, 5318.0, 5372.0, 5320.0, 5587.0, 5601.0, 5418.0, 5268.0, 5413.0, 5385.0, 5491.0, 5545.0, 5509.0, 5341.0, 5330.0, 5538.0, 5552.0, 5439.0, 5551.0, 5324.0, 5689.0, 5583.0, 5482.0, 5427.0, 5308.0, 5503.0, 5577.0, 5664.0, 5252.0, 5339.0, 5307.0, 5495.0, 5697.0, 5638.0, 5358.0, 5367.0, 5281.0, 5356.0, 5576.0, 5393.0, 5701.0, 5595.0, 5475.0, 5544.0, 5443.0, 5459.0, 5613.0, 5295.0, 5530.0, 5661.0, 5406.0, 5287.0, 5685.0, 5534.0, 5325.0, 5532.0, 5453.0, 5452.0, 5621.0
22	5500	9	1	333	1	5439.0, 5633.0, 5329.0, 5675.0, 5273.0, 5521.0, 5678.0, 5379.0, 5657.0, 5371.0, 5442.0, 5313.0, 5311.0, 5667.0, 5679.0, 5709.0, 5488.0, 5369.0, 5702.0, 5421.0, 5468.0, 5648.0, 5255.0, 5459.0, 5635.0, 5340.0, 5257.0, 5558.0, 5494.0, 5455.0, 5602.0, 5567.0, 5425.0, 5555.0, 5322.0, 5335.0, 5685.0, 5700.0, 5338.0, 5620.0, 5387.0, 5693.0, 5283.0, 5654.0, 5280.0, 5647.0, 5644.0, 5262.0, 5392.0, 5376.0, 5572.0, 5686.0, 5448.0, 5386.0, 5619.0, 5332.0, 5598.0, 5302.0, 5368.0, 5380.0, 5400.0, 5465.0, 5451.0, 5464.0, 5562.0, 5676.0, 5723.0, 5560.0, 5406.0, 5528.0, 5525.0, 5415.0, 5670.0, 5641.0, 5608.0, 5507.0, 5424.0, 5504.0, 5627.0, 5426.0, 5411.0, 5414.0, 5616.0, 5291.0, 5347.0, 5542.0, 5690.0, 5527.0, 5418.0, 5577.0, 5285.0, 5614.0, 5492.0, 5470.0, 5348.0, 5711.0, 5453.0, 5277.0, 5356.0, 5610.0
23	5500	9	1	333	1	5525.0, 5513.0, 5464.0, 5508.0, 5408.0, 5262.0, 5437.0, 5611.0, 5670.0, 5352.0, 5469.0, 5453.0, 5442.0, 5384.0, 5678.0, 5381.0, 5419.0, 5473.0, 5362.0, 5558.0, 5575.0, 5560.0, 5486.0, 5528.0, 5593.0, 5289.0, 5435.0, 5424.0, 5465.0, 5709.0, 5439.0, 5601.0, 5520.0, 5272.0, 5276.0, 5396.0, 5669.0, 5394.0, 5623.0, 5334.0, 5378.0, 5692.0, 5402.0, 5679.0, 5286.0, 5268.0, 5257.0, 5382.0, 5312.0, 5308.0, 5371.0, 5310.0, 5544.0, 5399.0, 5354.0,

						5654.0, 5461.0, 5264.0, 5552.0, 5684.0, 5480.0, 5618.0, 5622.0, 5250.0, 5532.0, 5566.0, 5456.0, 5388.0, 5403.0, 5596.0, 5548.0, 5682.0, 5522.0, 5722.0, 5328.0, 5309.0, 5630.0, 5471.0, 5713.0, 5569.0, 5277.0, 5718.0, 5557.0, 5432.0, 5649.0, 5524.0, 5401.0, 5687.0, 5643.0, 5379.0, 5583.0, 5298.0, 5390.0, 5321.0, 5634.0, 5653.0, 5723.0, 5534.0, 5338.0, 5595.0
24	5500	9	1	333	1	5489.0, 5447.0, 5351.0, 5699.0, 5323.0, 5326.0, 5660.0, 5391.0, 5345.0, 5307.0, 5258.0, 5266.0, 5664.0, 5709.0, 5693.0, 5362.0, 5369.0, 5424.0, 5570.0, 5273.0, 5619.0, 5443.0, 5448.0, 5366.0, 5588.0, 5332.0, 5348.0, 5586.0, 5303.0, 5550.0, 5471.0, 5551.0, 5364.0, 5670.0, 5517.0, 5564.0, 5501.0, 5653.0, 5641.0, 5421.0, 5618.0, 5539.0, 5409.0, 5343.0, 5585.0, 5397.0, 5684.0, 5414.0, 5495.0, 5437.0, 5527.0, 5675.0, 5334.0, 5712.0, 5560.0, 5640.0, 5692.0, 5606.0, 5464.0, 5400.0, 5626.0, 5487.0, 5386.0, 5462.0, 5265.0, 5601.0, 5720.0, 5277.0, 5422.0, 5432.0, 5721.0, 5289.0, 5581.0, 5534.0, 5595.0, 5500.0, 5261.0, 5299.0, 5505.0, 5575.0, 5263.0, 5716.0, 5358.0, 5251.0, 5337.0, 5514.0, 5353.0, 5417.0, 5717.0, 5644.0, 5282.0, 5442.0, 5477.0, 5582.0, 5688.0, 5470.0, 5456.0, 5620.0, 5605.0, 5617.0
25	5500	9	1	333	1	5556.0, 5379.0, 5704.0, 5396.0, 5385.0, 5415.0, 5533.0, 5510.0, 5715.0, 5568.0, 5389.0, 5675.0, 5451.0, 5312.0, 5623.0, 5474.0, 5669.0, 5365.0, 5601.0, 5535.0, 5573.0, 5501.0, 5684.0, 5651.0, 5520.0, 5721.0, 5525.0, 5540.0, 5661.0, 5584.0, 5390.0, 5491.0, 5332.0, 5433.0, 5717.0, 5644.0, 5667.0, 5434.0, 5517.0, 5662.0, 5561.0, 5621.0, 5360.0, 5289.0, 5337.0, 5378.0, 5603.0, 5592.0, 5543.0, 5605.0, 5258.0, 5521.0, 5348.0, 5343.0, 5562.0, 5462.0, 5446.0, 5590.0, 5448.0, 5687.0, 5650.0, 5400.0, 5670.0, 5336.0, 5412.0, 5509.0, 5645.0, 5641.0, 5324.0, 5606.0, 5388.0, 5610.0, 5328.0, 5317.0, 5327.0, 5699.0, 5498.0, 5407.0, 5288.0, 5639.0, 5703.0, 5567.0, 5376.0, 5262.0, 5363.0, 5671.0, 5697.0, 5489.0, 5484.0, 5269.0, 5331.0, 5255.0, 5551.0, 5612.0, 5577.0, 5270.0, 5674.0, 5471.0, 5569.0, 5516.0
26	5500	9	1	333	1	5586.0, 5594.0, 5420.0, 5359.0, 5621.0, 5540.0, 5289.0, 5703.0, 5325.0, 5340.0, 5486.0, 5625.0, 5278.0, 5496.0, 5261.0, 5633.0, 5708.0, 5524.0, 5659.0, 5263.0, 5376.0, 5689.0, 5415.0, 5483.0, 5716.0, 5370.0, 5557.0, 5657.0, 5366.0, 5425.0, 5566.0, 5538.0, 5660.0, 5312.0, 5383.0, 5444.0, 5339.0, 5650.0, 5280.0, 5693.0, 5595.0, 5469.0, 5554.0, 5445.0, 5528.0, 5685.0, 5674.0, 5679.0, 5721.0, 5699.0, 5643.0, 5654.0, 5520.0, 5590.0, 5517.0,

						5410.0, 5718.0, 5695.0, 5513.0, 5484.0, 5344.0, 5661.0, 5619.0, 5539.0, 5635.0, 5467.0, 5613.0, 5411.0, 5412.0, 5419.0, 5365.0, 5380.0, 5580.0, 5568.0, 5452.0, 5588.0, 5315.0, 5534.0, 5616.0, 5533.0, 5508.0, 5324.0, 5371.0, 5449.0, 5292.0, 5565.0, 5519.0, 5591.0, 5341.0, 5479.0, 5335.0, 5314.0, 5647.0, 5573.0, 5426.0, 5306.0, 5269.0, 5266.0, 5329.0, 5676.0
27	5500	9	1	333	1	5508.0, 5499.0, 5284.0, 5458.0, 5602.0, 5298.0, 5256.0, 5386.0, 5596.0, 5641.0, 5315.0, 5559.0, 5506.0, 5722.0, 5305.0, 5479.0, 5686.0, 5616.0, 5357.0, 5273.0, 5355.0, 5383.0, 5582.0, 5361.0, 5572.0, 5403.0, 5446.0, 5680.0, 5473.0, 5408.0, 5723.0, 5590.0, 5533.0, 5377.0, 5520.0, 5411.0, 5527.0, 5286.0, 5597.0, 5346.0, 5504.0, 5627.0, 5618.0, 5379.0, 5500.0, 5553.0, 5637.0, 5524.0, 5395.0, 5404.0, 5465.0, 5387.0, 5366.0, 5397.0, 5614.0, 5420.0, 5414.0, 5448.0, 5484.0, 5356.0, 5601.0, 5267.0, 5290.0, 5509.0, 5475.0, 5406.0, 5522.0, 5480.0, 5617.0, 5650.0, 5713.0, 5532.0, 5455.0, 5523.0, 5594.0, 5419.0, 5303.0, 5654.0, 5437.0, 5534.0, 5444.0, 5447.0, 5308.0, 5630.0, 5489.0, 5428.0, 5288.0, 5452.0, 5467.0, 5293.0, 5685.0, 5605.0, 5375.0, 5418.0, 5514.0, 5432.0, 5683.0, 5373.0, 5450.0, 5487.0
28	5500	9	1	333	1	5329.0, 5443.0, 5643.0, 5308.0, 5616.0, 5492.0, 5666.0, 5550.0, 5340.0, 5597.0, 5519.0, 5588.0, 5334.0, 5638.0, 5447.0, 5715.0, 5365.0, 5372.0, 5455.0, 5276.0, 5254.0, 5369.0, 5627.0, 5384.0, 5413.0, 5723.0, 5701.0, 5565.0, 5304.0, 5401.0, 5664.0, 5463.0, 5698.0, 5253.0, 5708.0, 5495.0, 5566.0, 5602.0, 5290.0, 5428.0, 5261.0, 5472.0, 5376.0, 5702.0, 5640.0, 5658.0, 5436.0, 5683.0, 5561.0, 5258.0, 5395.0, 5499.0, 5626.0, 5530.0, 5599.0, 5573.0, 5579.0, 5386.0, 5449.0, 5368.0, 5331.0, 5303.0, 5294.0, 5383.0, 5434.0, 5319.0, 5604.0, 5292.0, 5481.0, 5478.0, 5445.0, 5252.0, 5300.0, 5389.0, 5382.0, 5524.0, 5691.0, 5722.0, 5381.0, 5576.0, 5396.0, 5571.0, 5315.0, 5593.0, 5460.0, 5655.0, 5721.0, 5363.0, 5310.0, 5594.0, 5538.0, 5595.0, 5555.0, 5501.0, 5553.0, 5628.0, 5487.0, 5417.0, 5404.0, 5324.0
29	5500	9	1	333	1	5508.0, 5403.0, 5702.0, 5333.0, 5628.0, 5653.0, 5478.0, 5647.0, 5388.0, 5330.0, 5599.0, 5597.0, 5338.0, 5636.0, 5345.0, 5414.0, 5306.0, 5496.0, 5537.0, 5600.0, 5400.0, 5710.0, 5667.0, 5573.0, 5316.0, 5512.0, 5474.0, 5415.0, 5558.0, 5467.0, 5662.0, 5561.0, 5430.0, 5401.0, 5335.0, 5666.0, 5397.0, 5610.0, 5381.0, 5511.0, 5310.0, 5670.0, 5634.0, 5659.0, 5435.0, 5332.0, 5357.0, 5713.0, 5502.0, 5549.0, 5410.0, 5706.0, 5658.0, 5609.0, 5367.0,

						5620.0, 5452.0, 5372.0, 5362.0, 5393.0, 5678.0, 5522.0, 5552.0, 5622.0, 5571.0, 5257.0, 5510.0, 5336.0, 5442.0, 5394.0, 5648.0, 5441.0, 5611.0, 5593.0, 5588.0, 5650.0, 5590.0, 5387.0, 5369.0, 5326.0, 5714.0, 5464.0, 5463.0, 5614.0, 5550.0, 5273.0, 5262.0, 5356.0, 5342.0, 5318.0, 5587.0, 5717.0, 5489.0, 5513.0, 5541.0, 5348.0, 5308.0, 5449.0, 5720.0, 5532.0
30	5500	9	1	333	1	5498.0, 5486.0, 5713.0, 5623.0, 5432.0, 5692.0, 5382.0, 5304.0, 5544.0, 5297.0, 5624.0, 5527.0, 5473.0, 5315.0, 5409.0, 5563.0, 5272.0, 5446.0, 5660.0, 5598.0, 5644.0, 5368.0, 5497.0, 5431.0, 5437.0, 5604.0, 5589.0, 5627.0, 5286.0, 5708.0, 5292.0, 5472.0, 5617.0, 5440.0, 5717.0, 5489.0, 5663.0, 5579.0, 5298.0, 5597.0, 5625.0, 5583.0, 5688.0, 5635.0, 5618.0, 5718.0, 5723.0, 5507.0, 5553.0, 5303.0, 5658.0, 5681.0, 5590.0, 5703.0, 5654.0, 5282.0, 5375.0, 5694.0, 5336.0, 5480.0, 5512.0, 5305.0, 5348.0, 5722.0, 5675.0, 5452.0, 5435.0, 5319.0, 5577.0, 5436.0, 5651.0, 5310.0, 5359.0, 5283.0, 5549.0, 5392.0, 5363.0, 5574.0, 5381.0, 5516.0, 5353.0, 5482.0, 5596.0, 5263.0, 5401.0, 5424.0, 5591.0, 5557.0, 5290.0, 5539.0, 5504.0, 5444.0, 5607.0, 5467.0, 5352.0, 5642.0, 5434.0, 5530.0, 5379.0, 5476.0

40MHz Bandwidth

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

Please refer to the following statistical tables:

5510MHz:
Radar Type 1A Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	78	1	678	1
2	5510	83	1	638	1
3	5510	95	1	558	1
4	5510	61	1	878	1
5	5510	57	1	938	1
6	5510	18	1	3066	1
7	5510	72	1	738	1
8	5510	76	1	698	1
9	5510	68	1	778	1
10	5510	67	1	798	1
11	5510	86	1	618	1
12	5510	62	1	858	1
13	5510	89	1	598	1
14	5510	70	1	758	1
15	5510	63	1	838	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	5510	40	1	1347	1
2	5510	93	1	568	1
3	5510	23	1	2358	1
4	5510	29	1	1827	1
5	5510	58	1	924	1
6	5510	25	1	2151	1
7	5510	24	1	2263	1
8	5510	28	1	1886	1
9	5510	20	1	2686	1
10	5510	54	1	983	1
11	5510	36	1	1492	1
12	5510	35	1	1538	1
13	5510	19	1	2878	1
14	5510	31	1	1710	1
15	5510	30	1	1774	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	5510	29	1.3	221	1
2	5510	25	1.9	224	1
3	5510	27	1.9	198	1
4	5510	25	2.5	159	1
5	5510	28	2.5	176	1
6	5510	24	4.8	164	1
7	5510	25	1	204	1
8	5510	29	1.1	183	1
9	5510	26	2	224	1
10	5510	24	2.6	211	1
11	5510	28	2.2	156	1
12	5510	29	4.3	223	1
13	5510	29	4	216	1
14	5510	24	1.1	180	1
15	5510	28	4	162	1
16	5510	29	1.1	207	1
17	5510	25	2.3	166	1
18	5510	28	2.2	190	1
19	5510	23	2.7	182	1
20	5510	25	4.8	227	1
21	5510	23	4.4	216	1
22	5510	24	1.5	196	1
23	5510	24	3.5	199	1
24	5510	26	1.6	172	1
25	5510	28	3.2	199	1
26	5510	28	1.9	160	1
27	5510	29	1.5	202	1
28	5510	27	3.8	227	1
29	5510	24	2.5	215	1
30	5510	29	2.5	214	1
Detection Percentage: 100 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	18	8.1	253	1
2	5510	18	8.8	499	1
3	5510	17	8.9	211	1
4	5510	18	8	378	1
5	5510	18	8.5	436	1
6	5510	18	6.2	426	1
7	5510	18	9.5	245	1
8	5510	17	8.1	388	1
9	5510	16	7.1	309	1
10	5510	18	7.9	246	1
11	5510	17	8.6	290	1
12	5510	17	8.8	447	1
13	5510	18	7.5	362	1
14	5510	16	7.1	356	1
15	5510	17	7.2	393	1
16	5510	16	6.4	394	1
17	5510	17	9.3	479	1
18	5510	16	7.2	422	1
19	5510	18	7	266	1
20	5510	18	7.6	429	1
21	5510	16	6.6	284	1
22	5510	18	7.6	496	1
23	5510	16	7.1	445	1
24	5510	17	6.7	382	1
25	5510	16	6	239	1
26	5510	16	6.2	448	1
27	5510	16	7	446	1
28	5510	17	8.5	367	1
29	5510	18	6.3	500	1
30	5510	18	8.5	442	1
Detection Percentage: 100 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	14	12.9	409	1
2	5510	12	15.1	396	1
3	5510	15	16.6	294	1
4	5510	13	15.2	402	1
5	5510	12	19	286	1
6	5510	16	14.4	402	1
7	5510	13	19.6	466	1
8	5510	14	16	417	1
9	5510	13	14.1	284	1
10	5510	14	11.1	222	1
11	5510	16	15.2	384	1
12	5510	14	18.2	310	1
13	5510	12	18.8	412	1
14	5510	16	12.2	308	1
15	5510	13	19.1	413	1
16	5510	16	13.1	316	1
17	5510	14	11.9	459	1
18	5510	15	13.1	479	1
19	5510	15	12.4	202	1
20	5510	12	11	453	1
21	5510	15	19.9	395	1
22	5510	12	18.8	444	1
23	5510	14	18.6	307	1
24	5510	14	17.1	451	1
25	5510	16	15.9	337	1
26	5510	16	15.6	395	1
27	5510	12	12	460	1
28	5510	15	16	330	1
29	5510	12	17.9	414	1
30	5510	14	13.3	477	1
Detection Percentage: 100 % (>60%)					

Radar Type 5 Case1 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	12	52.3	1269	1154	0.808036	1
1	2	12	57.9	1738	/	1.444169	
2	2	12	73.7	1189	/	2.083874	
3	2	12	65.8	1581	/	3.358381	
4	2	12	85.6	1202	/	4.673924	
5	2	12	75.2	1990	/	5.79757	
6	1	12	61	/	/	6.893106	
7	2	12	82.7	1905	/	7.726052	
8	2	12	56.1	1160	/	8.427918	
9	1	12	52	/	/	9.045599	
10	2	12	57.6	1327	/	10.028608	
11	3	12	68.3	1036	1166	11.808035	

Statistics 2 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	99.9	1243	/	0.818554	1
1	2	16	62.3	1228	/	1.699275	
2	1	16	72.8	/	/	2.416326	
3	1	16	50.6	/	/	2.935051	
4	1	16	82.2	/	/	4.00986	
5	3	16	66.9	1550	1532	4.89053	
6	1	16	53.2	/	/	5.911043	
7	3	16	63.2	1736	1753	6.323404	
8	2	16	73.6	1493	/	7.34059	
9	2	16	61.6	1023	/	8.156595	
10	2	16	81.3	1695	/	9.227932	
11	2	16	98.9	1151	/	9.97717	
12	2	16	96.3	1723	/	10.868493	
13	2	16	97.4	1729	/	11.37818	

Statistics 3 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	14	82.7	1337	1235	0.417163	1
1	3	14	83.8	1656	1179	0.824934	
2	3	14	73.1	1655	1977	1.765578	
3	1	14	67.6	/	/	2.016868	
4	2	14	85.7	1981	/	2.964892	
5	1	14	73.6	/	/	3.652594	
6	1	14	99.9	/	/	4.133012	
7	1	14	71.6	/	/	4.895234	
8	2	14	65.6	1695	/	5.824055	
9	2	14	97.5	1202	/	6.607371	
10	2	14	72.1	1447	/	7.01275	
11	2	14	58.2	1885	/	7.431758	
12	2	14	84.9	1642	/	8.434076	
13	2	14	76.4	1407	/	8.671831	
14	3	14	66.2	1931	1113	9.481808	
15	3	14	88.2	1783	1926	10.311063	
16	3	14	77.5	1604	1678	10.953897	
17	1	14	61	/	/	11.925513	

Statistics 4 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	85.1	1230	/	0.636916	1
1	3	16	80.1	1996	1558	1.136309	
2	3	16	96.4	1879	1515	2.4596	
3	2	16	69.6	1495	/	3.293989	
4	3	16	92.7	1338	1725	3.95875	
5	2	16	65.5	1169	/	4.977997	
6	2	16	74.2	1709	/	5.612341	
7	2	16	99.1	1677	/	6.287105	
8	1	16	87.7	/	/	7.233417	
9	1	16	83.9	/	/	8.300561	
10	3	16	79.6	1329	1120	8.818433	
11	2	16	71.1	1850	/	9.565252	
12	2	16	64	1314	/	10.593245	
13	2	16	88.4	1938	/	11.697947	

Statistics 5 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	13	54.2	1238	/	0.179477	1
1	1	13	89.3	/	/	1.581923	
2	2	13	76.4	1776	/	2.138921	
3	3	13	96.1	1602	1646	3.409255	
4	2	13	56.8	1658	/	4.256957	
5	2	13	55.8	1637	/	5.014454	
6	2	13	83.7	1838	/	5.313126	
7	1	13	72.5	/	/	6.420566	
8	2	13	73	1969	/	7.549776	
9	1	13	86.5	/	/	7.858075	
10	3	13	94.1	1947	1155	8.953514	
11	2	13	95.3	1535	/	10.107522	
12	3	13	89.4	1284	1130	11.029879	
13	1	13	69.3	/	/	11.311957	

Statistics 6 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	6	66.9	/	/	0.707924	1
1	3	6	87.8	1844	1345	1.498024	
2	2	6	70.3	1560	/	2.150697	
3	2	6	52.5	1838	/	3.056397	
4	3	6	79.7	1744	1382	4.121475	
5	2	6	72.7	1109	/	4.884496	
6	2	6	50.6	1071	/	5.176638	
7	2	6	67.4	1785	/	6.387367	
8	2	6	59.5	1298	/	7.284075	
9	2	6	61	1218	/	8.083002	
10	1	6	92.9	/	/	9.195996	
11	1	6	91.8	/	/	10.175095	
12	2	6	52.5	1094	/	10.522898	
13	3	6	96.6	1639	1628	11.829247	

Statistics 7 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	5	50.7	1365	1254	0.525876	
1	2	5	64.6	1613	/	1.542063	
2	2	5	88.5	1965	/	1.913798	
3	2	5	95.6	1635	/	3.181205	
4	3	5	56.6	1122	1460	3.746134	
5	2	5	91	1017	/	4.216861	
6	2	5	64.1	1478	/	4.835431	
7	2	5	82.6	1601	/	6.054378	1
8	1	5	59.3	/	/	7.010736	
9	2	5	66.3	1391	/	7.323573	
10	1	5	85	/	/	8.094156	
11	2	5	90.8	1801	/	9.330547	
12	3	5	65.6	1262	1096	9.650085	
13	3	5	66.1	1081	1905	10.961748	
14	2	5	82.9	1813	/	11.855509	

Statistics 8 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	6	72.5	1301	1699	0.208433	
1	2	6	57.5	1050	/	0.884732	
2	2	6	85.2	1009	/	1.821298	
3	1	6	56.3	/	/	2.182204	
4	2	6	54.5	1390	/	2.677686	
5	1	6	74.9	/	/	3.463469	
6	1	6	56.2	/	/	4.394299	
7	2	6	89.2	1747	/	4.831027	
8	2	6	81	1174	/	5.372046	
9	3	6	53.9	1515	1355	6.452757	1
10	1	6	57.7	/	/	7.141661	
11	1	6	53.7	/	/	7.801217	
12	2	6	54.8	1477	/	8.510763	
13	1	6	77.2	/	/	9.328173	
14	3	6	94.1	1337	1965	9.544616	
15	1	6	55.5	/	/	10.212085	
16	3	6	57.8	1145	1012	10.931574	
17	1	6	56.7	/	/	11.366143	

Statistics 9 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	5	66	1220	/	0.065878	
1	2	5	74.9	1847	/	1.371254	
2	2	5	51.7	1914	/	2.014773	
3	3	5	95.9	1390	1598	2.429499	
4	2	5	74	1700	/	3.609529	
5	2	5	81.8	1098	/	4.303926	
6	2	5	57	1553	/	4.990527	
7	2	5	70	1622	/	6.051335	1
8	2	5	88.1	1654	/	7.12967	
9	2	5	63.8	1730	/	7.395663	
10	2	5	74.4	1214	/	8.623266	
11	2	5	71.9	1786	/	9.513266	
12	2	5	93.4	1856	/	10.241418	
13	3	5	75.3	1739	1831	11.010952	
14	2	5	64.2	1806	/	11.981321	

Statistics 10 (ChirpCenter Frequency: 5510 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	8	67.9	1279	/	0.596087	
1	2	8	77.9	1107	/	1.27025	
2	2	8	71.6	1172	/	2.348192	
3	2	8	55.9	1548	/	3.03413	
4	1	8	82.2	/	/	4.295653	
5	3	8	68.7	1885	1613	4.989792	
6	3	8	50.2	1429	1622	6.126164	1
7	2	8	50.1	1148	/	7.021988	
8	3	8	88	1385	1687	8.059003	
9	2	8	79.7	1188	/	8.593825	
10	2	8	95.2	1118	/	9.447867	
11	1	8	78.8	/	/	10.299807	
12	3	8	53.8	1969	1220	11.344009	

Radar Type 5 Case2 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5496 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	12	96.7	1242	/	0.197423	1
1	3	12	58.3	1917	1862	1.801092	
2	2	12	91.8	1674	/	2.568104	
3	3	12	51.7	1505	1555	3.41314	
4	2	12	63.8	1503	/	3.95559	
5	2	12	79.1	1177	/	4.83994	
6	3	12	77.9	1751	1895	6.112339	
7	2	12	55.4	1841	/	6.598753	
8	2	12	81.9	1321	/	7.700475	
9	1	12	57.3	/	/	8.734065	
10	2	12	60.2	1504	/	10.084804	
11	1	12	57.3	/	/	10.628157	
12	3	12	87.1	1607	1297	11.779201	

Statistics 2 (ChirpCenter Frequency: 5494 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	6	62.2	1015	1149	0.170786	1
1	2	6	69.2	1220	/	2.222473	
2	2	6	83.4	1044	/	4.467489	
3	2	6	90.3	1561	/	4.560689	
4	2	6	89.4	1528	/	6.079489	
5	2	6	64.9	1696	/	7.873425	
6	2	6	85.3	1344	/	10.472896	
7	2	6	75.6	1971	/	11.09648	

Statistics 3 (ChirpCenter Frequency: 5494 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	6	52.7	1718	/	0.370641	1
1	3	6	76.4	1585	1137	1.048443	
2	1	6	88.9	/	/	2.859688	
3	2	6	90.3	1519	/	3.821864	
4	2	6	58.3	1887	/	4.537757	
5	3	6	61	1425	1596	5.91717	
6	2	6	72.8	1481	/	6.54289	
7	2	6	84.1	1031	/	7.482525	
8	1	6	85.4	/	/	8.693766	
9	1	6	65.8	/	/	9.723358	
10	2	6	54.8	1168	/	10.58098	
11	1	6	89.5	/	/	11.187221	

Statistics 4 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	9	94.4	1016	/	0.529298	1
1	2	9	92.6	1865	/	1.341564	
2	3	9	99.2	1938	1921	2.58412	
3	1	9	52	/	/	3.45339	
4	3	9	66.6	1333	1813	4.560253	
5	1	9	92.7	/	/	5.682249	
6	2	9	62.6	1481	/	6.878959	
7	1	9	96.6	/	/	7.886452	
8	2	9	87.5	1460	/	8.788071	
9	3	9	99.2	1625	1182	10.89835	
10	1	9	55	/	/	11.212517	

Statistics 5 (ChirpCenter Frequency: 5498 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	17	59.7	/	/	0.338881	1
1	3	17	74.4	1866	1476	2.162402	
2	2	17	73.9	1944	/	3.002389	
3	3	17	64.1	1911	1033	3.678217	
4	2	17	77.2	1118	/	5.307678	
5	2	17	73	1819	/	5.6685	
6	2	17	95.7	1347	/	7.243631	
7	2	17	55.7	1483	/	8.032536	
8	2	17	73.3	1295	/	9.320781	
9	1	17	62.8	/	/	10.684005	
10	2	17	94.7	1051	/	11.196029	

Statistics 6 (ChirpCenter Frequency: 5498 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	15	51.6	/	/	0.759931	1
1	1	15	50.2	/	/	1.215849	
2	1	15	61.4	/	/	2.116007	
3	2	15	88.1	1979	/	3.640364	
4	3	15	89.5	1695	1003	4.006108	
5	1	15	74.7	/	/	5.423239	
6	3	15	94.7	1377	1960	6.439688	
7	3	15	73.9	1533	1753	7.860654	
8	1	15	72.1	/	/	8.774458	
9	2	15	61.2	1631	/	9.450807	
10	2	15	97.9	1565	/	10.507948	
11	3	15	51.9	1458	1979	11.446746	

Statistics 7 (ChirpCenter Frequency: 5497 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	13	65.3	1885	1543	0.873208	
1	1	13	74.8	/	/	2.384062	
2	2	13	79.9	1723	/	3.125717	
3	2	13	58.8	1086	/	4.99729	
4	2	13	80.9	1956	/	5.403124	1
5	2	13	74.5	1813	/	7.32894	
6	2	13	64	1676	/	8.208508	
7	2	13	97	1680	/	10.032189	
8	2	13	77	1977	/	10.86922	

Statistics 8 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	8	86.6	/	/	0.15633	
1	3	8	56.8	1930	1517	1.069621	
2	2	8	95.9	1011	/	1.740818	
3	2	8	81.2	1112	/	2.055651	
4	1	8	54.2	/	/	2.534932	
5	2	8	61	1383	/	3.069143	
6	2	8	66.2	1336	/	3.707978	
7	2	8	91.3	1688	/	4.552901	
8	2	8	56.8	1868	/	4.929396	
9	2	8	57.3	1805	/	5.933351	
10	3	8	66	1574	1900	6.469907	1
11	2	8	50.4	1797	/	6.659597	
12	3	8	74.3	1052	1811	7.495561	
13	3	8	68.8	1074	1820	8.364294	
14	2	8	61.8	1680	/	8.982309	
15	3	8	85	1659	1296	9.293018	
16	2	8	87.1	1244	/	10.084557	
17	1	8	96.3	/	/	10.230386	
18	2	8	65.9	1719	/	11.173519	
19	2	8	73.9	1466	/	11.977476	

Statistics 9 (ChirpCenter Frequency: 5499 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	19	55.5	1052	/	0.659374	1
1	2	19	63	1839	/	1.097769	
2	3	19	59.5	1081	1822	1.900811	
3	2	19	88.6	1006	/	2.260038	
4	2	19	92.1	1832	/	3.728564	
5	3	19	82.2	1057	1726	4.198165	
6	2	19	59.1	1144	/	5.200248	
7	2	19	85.5	1479	/	5.513467	
8	3	19	88.5	1189	1398	6.706137	
9	2	19	68.4	1780	/	7.486717	
10	1	19	79.5	/	/	7.569086	
11	2	19	60.9	1942	/	8.29412	
12	2	19	85.6	1702	/	9.259142	
13	1	19	79.5	/	/	10.248823	
14	1	19	57.1	/	/	10.856442	
15	1	19	57.2	/	/	11.424154	

Statistics 10 (ChirpCenter Frequency: 5494 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	7	78	1002	1649	0.106792	1
1	2	7	88.2	1434	/	1.680199	
2	3	7	83.4	1219	1990	2.995433	
3	1	7	96.2	/	/	4.287919	
4	2	7	60.9	1662	/	5.55776	
5	3	7	85.9	1443	1648	6.143902	
6	3	7	87.3	1946	1877	7.564802	
7	3	7	51.3	1149	1927	9.319689	
8	1	7	52.7	/	/	10.655557	
9	3	7	52	1491	1722	11.310932	

Radar Type 5 Case3 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5523 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	14	77.8	/	/	0.509791	1
1	3	14	94.5	1113	1761	1.451714	
2	2	14	93.6	1867	/	1.630416	
3	2	14	73.2	1785	/	2.500836	
4	2	14	69.2	1755	/	3.713119	
5	1	14	55.8	/	/	4.009676	
6	3	14	95.1	1170	1227	5.017468	
7	3	14	54.1	1212	1197	5.813276	
8	1	14	81.7	/	/	6.646834	
9	2	14	61.4	1405	/	6.768182	
10	2	14	63.3	1847	/	7.713758	
11	1	14	70	/	/	8.339489	
12	3	14	83.1	1830	1774	9.644841	
13	3	14	66.1	1431	1072	10.436587	
14	3	14	52.4	1023	1189	10.889853	
15	1	14	78.8	/	/	11.572799	

Statistics 2 (ChirpCenter Frequency: 5521 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	18	84.8	1255	/	0.942779	1
1	1	18	97.3	/	/	1.465435	
2	2	18	54.7	1946	/	2.235223	
3	3	18	58.4	1914	1217	3.861074	
4	3	18	97	1798	1371	4.747028	
5	3	18	76.1	1462	1883	6.438342	
6	2	18	89.7	1889	/	6.744836	
7	3	18	68.4	1995	1637	8.53932	
8	2	18	73.7	1420	/	9.635901	
9	2	18	85.5	1484	/	10.158486	
10	1	18	78.4	/	/	11.798491	

Statistics 3 (ChirpCenter Frequency: 5522 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	17	88	1833	/	1.244125	1
1	1	17	64	/	/	2.635688	
2	1	17	87.1	/	/	4.282898	
3	2	17	94.3	1435	/	5.424433	
4	2	17	58	1563	/	6.573222	
5	2	17	66.6	1007	/	8.481601	
6	3	17	67.8	1134	1493	9.539291	
7	3	17	68.1	1191	1948	10.775244	

Statistics 4 (ChirpCenter Frequency: 5521 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	19	90.3	1640	/	0.519135	1
1	1	19	52.4	/	/	1.866124	
2	2	19	75.6	1136	/	2.480543	
3	1	19	75.6	/	/	3.663709	
4	1	19	75.9	/	/	5.381316	
5	2	19	63.4	1872	/	6.079881	
6	1	19	91	/	/	7.217802	
7	2	19	80.6	1337	/	8.64036	
8	2	19	70.7	1331	/	9.79617	
9	2	19	57.9	1239	/	11.464879	

Statistics 5 (ChirpCenter Frequency: 5522 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	15	67.7	1812	1815	0.605345	
1	2	15	89.9	1025	/	0.941728	
2	3	15	93	1227	1919	2.006572	
3	3	15	54.6	1721	1717	2.847777	
4	1	15	94.1	/	/	3.711674	
5	2	15	92.3	1287	/	4.251314	
6	2	15	51.3	1795	/	5.032638	
7	2	15	83.3	1893	/	6.184463	1
8	2	15	98.7	1487	/	6.465506	
9	3	15	60.6	1022	1535	7.752312	
10	1	15	58.2	/	/	8.407252	
11	3	15	67.3	1729	1751	9.59047	
12	1	15	56.9	/	/	9.608959	
13	3	15	70.2	1219	1397	11.06414	
14	2	15	83.9	1002	/	11.360523	

Statistics 6 (ChirpCenter Frequency: 5524 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	73.2	1232	/	0.548824	
1	2	11	97.8	1813	/	1.135663	
2	2	11	74.5	1843	/	1.51149	
3	2	11	75.4	1073	/	1.992587	
4	2	11	63	1754	/	2.807832	
5	1	11	74.3	/	/	3.20905	
6	2	11	94.6	1048	/	3.804135	
7	2	11	74.5	1434	/	4.552662	
8	2	11	50.2	1927	/	5.27207	
9	3	11	97.4	1960	1015	5.835396	1
10	2	11	76.6	1965	/	6.667178	
11	2	11	58.6	1333	/	7.37776	
12	3	11	68.7	1857	1685	8.039439	
13	2	11	79.3	1326	/	8.364835	
14	2	11	59.3	1560	/	9.075401	
15	2	11	71.3	1420	/	9.933616	
16	2	11	53.6	1300	/	10.169325	
17	1	11	68.9	/	/	11.237632	
18	1	11	52.4	/	/	11.739465	

Statistics 7 (ChirpCenter Frequency: 5523 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	14	76.1	/	/	0.085441	
1	2	14	87.4	1698	/	1.378836	
2	1	14	69.3	/	/	1.976728	
3	2	14	89.7	1512	/	2.801399	
4	1	14	55.4	/	/	3.208915	
5	2	14	66.3	1095	/	4.639379	
6	2	14	83	1469	/	5.084054	
7	2	14	51.4	1248	/	6.180595	1
8	1	14	58.5	/	/	7.186056	
9	2	14	75.8	1191	/	7.908559	
10	2	14	79.6	1252	/	8.379479	
11	3	14	80.2	1856	1688	9.043376	
12	2	14	72.1	1050	/	10.162991	
13	3	14	52	1028	1107	10.662674	
14	2	14	63	1627	/	11.36325	

Statistics 8 (ChirpCenter Frequency: 5521 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	18	81.4	1638	/	0.103334	
1	1	18	73.2	/	/	2.079732	
2	2	18	53.4	1959	/	3.071126	
3	3	18	54	1681	1226	3.794203	
4	3	18	76.5	1905	1423	4.846109	
5	2	18	74.8	1123	/	6.648048	1
6	1	18	82.9	/	/	7.326985	
7	1	18	72.9	/	/	8.567883	
8	1	18	99.4	/	/	10.491662	
9	2	18	54.2	1363	/	11.237861	

Statistics 9 (ChirpCenter Frequency: 5524 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	12	95.6	1554	/	0.249513	
1	2	12	68.7	1386	/	1.261941	
2	1	12	94.3	/	/	1.885514	
3	2	12	99.2	1922	/	2.625458	
4	1	12	89.4	/	/	3.10487	
5	3	12	53.2	1177	1961	3.878284	
6	1	12	98	/	/	4.565124	
7	2	12	70.1	1445	/	5.198949	
8	2	12	63.6	1103	/	6.126101	1
9	2	12	51.5	1363	/	6.382395	
10	3	12	82.5	1119	1200	7.235834	
11	2	12	62.4	1173	/	7.795555	
12	3	12	78.2	1294	1336	9.068519	
13	1	12	90.6	/	/	9.187508	
14	2	12	95.3	1444	/	10.226075	
15	2	12	63.3	1069	/	11.088075	
16	2	12	67.2	1253	/	11.594677	

Statistics 10 (ChirpCenter Frequency: 5526 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	7	66.5	1580	/	0.549566	
1	1	7	91.5	/	/	0.772505	
2	2	7	64	1502	/	1.372972	
3	3	7	50.9	1897	1987	2.124505	
4	3	7	57	1961	1626	2.89965	
5	2	7	70.2	1037	/	3.673391	
6	1	7	96	/	/	4.082809	
7	1	7	63.5	/	/	4.48358	
8	2	7	81	1570	/	5.353708	
9	3	7	89.4	1574	1458	6.309042	1
10	1	7	82.6	/	/	6.710409	
11	3	7	77.9	1469	1244	7.283255	
12	2	7	91.8	1211	/	8.060816	
13	3	7	59	1393	1163	8.410279	
14	2	7	81.4	1887	/	9.179954	
15	1	7	62.8	/	/	9.684504	
16	1	7	95.1	/	/	10.486192	
17	3	7	96	1217	1890	11.16528	
18	3	7	61.2	1278	1867	11.945803	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (GHz)
1	5510	9	1	333	1	5715.0, 5545.0, 5487.0, 5613.0, 5637.0, 5425.0, 5505.0, 5447.0, 5426.0, 5334.0, 5537.0, 5260.0, 5259.0, 5659.0, 5671.0, 5675.0, 5525.0, 5319.0, 5312.0, 5397.0, 5531.0, 5400.0, 5647.0, 5342.0, 5375.0, 5347.0, 5468.0, 5363.0, 5365.0, 5474.0, 5423.0, 5276.0, 5510.0, 5666.0, 5477.0, 5446.0, 5640.0, 5453.0, 5370.0, 5417.0, 5588.0, 5457.0, 5471.0, 5332.0, 5523.0, 5642.0, 5627.0, 5283.0, 5499.0, 5385.0, 5565.0, 5302.0, 5618.0, 5361.0, 5296.0, 5683.0, 5694.0, 5579.0, 5688.0, 5534.0, 5356.0, 5458.0, 5697.0, 5586.0, 5552.0, 5310.0, 5359.0, 5713.0, 5512.0, 5681.0, 5322.0, 5668.0, 5648.0, 5494.0, 5318.0, 5330.0, 5614.0, 5424.0, 5396.0, 5593.0, 5273.0, 5591.0, 5670.0, 5338.0, 5357.0, 5314.0, 5280.0, 5651.0, 5293.0, 5547.0, 5556.0, 5441.0, 5608.0, 5605.0, 5300.0, 5538.0, 5498.0, 5405.0, 5287.0, 5390.0
2	5510	9	1	333	1	5584.0, 5444.0, 5435.0, 5507.0, 5358.0, 5642.0, 5609.0, 5663.0, 5294.0, 5674.0, 5328.0, 5553.0, 5286.0, 5695.0, 5669.0, 5498.0, 5454.0, 5363.0, 5338.0, 5585.0, 5678.0, 5512.0, 5491.0, 5679.0, 5575.0, 5562.0, 5285.0, 5705.0, 5377.0, 5607.0, 5260.0, 5448.0, 5470.0, 5492.0, 5632.0, 5437.0, 5500.0, 5549.0, 5542.0, 5418.0, 5303.0, 5653.0, 5321.0, 5274.0, 5336.0, 5442.0, 5332.0, 5419.0, 5595.0, 5385.0, 5683.0, 5619.0, 5637.0, 5331.0, 5487.0, 5655.0, 5290.0, 5456.0, 5579.0, 5580.0, 5531.0, 5461.0, 5436.0, 5715.0, 5314.0, 5253.0, 5646.0, 5645.0, 5406.0, 5690.0, 5297.0, 5347.0, 5343.0, 5560.0, 5590.0, 5341.0, 5504.0, 5649.0, 5486.0, 5713.0, 5497.0, 5672.0, 5603.0, 5521.0, 5699.0, 5293.0, 5399.0, 5323.0, 5614.0, 5503.0, 5325.0, 5659.0, 5577.0, 5495.0, 5350.0, 5664.0, 5421.0, 5509.0, 5570.0, 5257.0
3	5510	9	1	333	1	5602.0, 5536.0, 5520.0, 5702.0, 5710.0, 5589.0, 5349.0, 5463.0, 5386.0, 5641.0, 5407.0, 5646.0, 5425.0, 5345.0, 5514.0, 5256.0, 5616.0, 5620.0, 5335.0, 5326.0, 5650.0, 5419.0, 5722.0, 5574.0, 5714.0, 5310.0, 5509.0, 5300.0, 5493.0, 5388.0, 5593.0, 5328.0, 5551.0, 5313.0, 5295.0, 5624.0, 5377.0, 5274.0, 5408.0, 5339.0, 5336.0, 5664.0, 5374.0, 5426.0, 5669.0, 5346.0, 5255.0, 5525.0, 5596.0, 5697.0, 5699.0, 5626.0, 5612.0, 5393.0, 5603.0, 5708.0, 5376.0, 5287.0, 5547.0, 5327.0, 5277.0, 5488.0, 5329.0, 5588.0, 5451.0, 5442.0, 5280.0, 5653.0, 5578.0, 5561.0,

						5539.0, 5582.0, 5260.0, 5382.0, 5373.0, 5711.0, 5605.0, 5545.0, 5464.0, 5450.0, 5460.0, 5318.0, 5304.0, 5275.0, 5380.0, 5371.0, 5468.0, 5434.0, 5489.0, 5445.0, 5721.0, 5572.0, 5462.0, 5563.0, 5341.0, 5418.0, 5580.0, 5516.0, 5564.0, 5282.0
4	5510	9	1	333	1	5332.0, 5537.0, 5474.0, 5372.0, 5527.0, 5623.0, 5536.0, 5548.0, 5718.0, 5426.0, 5580.0, 5520.0, 5368.0, 5695.0, 5706.0, 5483.0, 5276.0, 5603.0, 5710.0, 5595.0, 5539.0, 5449.0, 5288.0, 5420.0, 5308.0, 5326.0, 5452.0, 5328.0, 5655.0, 5437.0, 5366.0, 5400.0, 5473.0, 5565.0, 5364.0, 5709.0, 5679.0, 5581.0, 5408.0, 5361.0, 5285.0, 5503.0, 5375.0, 5324.0, 5268.0, 5682.0, 5459.0, 5356.0, 5311.0, 5486.0, 5293.0, 5432.0, 5513.0, 5448.0, 5703.0, 5578.0, 5528.0, 5274.0, 5446.0, 5347.0, 5717.0, 5675.0, 5691.0, 5284.0, 5518.0, 5605.0, 5380.0, 5481.0, 5329.0, 5331.0, 5562.0, 5714.0, 5365.0, 5260.0, 5297.0, 5341.0, 5379.0, 5553.0, 5272.0, 5439.0, 5716.0, 5358.0, 5388.0, 5362.0, 5443.0, 5429.0, 5692.0, 5453.0, 5721.0, 5525.0, 5602.0, 5564.0, 5637.0, 5386.0, 5610.0, 5357.0, 5419.0, 5686.0, 5501.0, 5596.0
5	5510	9	1	333	1	5593.0, 5395.0, 5708.0, 5720.0, 5633.0, 5282.0, 5521.0, 5664.0, 5327.0, 5506.0, 5337.0, 5309.0, 5342.0, 5397.0, 5318.0, 5333.0, 5495.0, 5340.0, 5569.0, 5706.0, 5443.0, 5544.0, 5369.0, 5507.0, 5710.0, 5283.0, 5315.0, 5692.0, 5346.0, 5382.0, 5360.0, 5317.0, 5493.0, 5288.0, 5589.0, 5699.0, 5468.0, 5371.0, 5438.0, 5263.0, 5311.0, 5505.0, 5565.0, 5614.0, 5350.0, 5583.0, 5721.0, 5399.0, 5330.0, 5304.0, 5347.0, 5466.0, 5449.0, 5349.0, 5637.0, 5270.0, 5543.0, 5432.0, 5365.0, 5549.0, 5306.0, 5368.0, 5439.0, 5377.0, 5477.0, 5258.0, 5344.0, 5674.0, 5345.0, 5689.0, 5596.0, 5520.0, 5418.0, 5675.0, 5700.0, 5691.0, 5512.0, 5665.0, 5662.0, 5572.0, 5313.0, 5297.0, 5402.0, 5523.0, 5540.0, 5597.0, 5414.0, 5296.0, 5639.0, 5683.0, 5430.0, 5322.0, 5601.0, 5385.0, 5705.0, 5440.0, 5307.0, 5701.0, 5405.0, 5453.0
6	5510	9	1	333	1	5340.0, 5689.0, 5414.0, 5587.0, 5522.0, 5591.0, 5588.0, 5613.0, 5603.0, 5325.0, 5469.0, 5349.0, 5289.0, 5539.0, 5295.0, 5435.0, 5422.0, 5673.0, 5263.0, 5718.0, 5445.0, 5332.0, 5451.0, 5569.0, 5453.0, 5272.0, 5670.0, 5500.0, 5338.0, 5304.0, 5444.0, 5342.0, 5346.0, 5659.0, 5691.0, 5313.0, 5390.0, 5440.0, 5647.0, 5438.0, 5687.0, 5261.0, 5264.0, 5514.0, 5505.0, 5532.0, 5509.0, 5543.0, 5426.0, 5669.0, 5653.0, 5418.0, 5513.0, 5680.0, 5428.0, 5475.0, 5437.0, 5621.0, 5528.0, 5629.0, 5412.0, 5449.0, 5707.0, 5311.0, 5531.0, 5306.0, 5508.0, 5288.0, 5267.0, 5300.0,

						5471.0, 5353.0, 5262.0, 5460.0, 5275.0, 5583.0, 5511.0, 5572.0, 5369.0, 5317.0, 5586.0, 5436.0, 5302.0, 5518.0, 5403.0, 5648.0, 5463.0, 5679.0, 5554.0, 5619.0, 5277.0, 5474.0, 5400.0, 5357.0, 5601.0, 5454.0, 5462.0, 5668.0, 5697.0, 5328.0
7	5510	9	1	333	1	5639.0, 5481.0, 5436.0, 5444.0, 5316.0, 5542.0, 5304.0, 5283.0, 5650.0, 5590.0, 5488.0, 5264.0, 5697.0, 5343.0, 5480.0, 5579.0, 5534.0, 5473.0, 5615.0, 5494.0, 5301.0, 5294.0, 5634.0, 5624.0, 5446.0, 5653.0, 5422.0, 5278.0, 5333.0, 5708.0, 5654.0, 5670.0, 5387.0, 5571.0, 5456.0, 5535.0, 5350.0, 5408.0, 5682.0, 5646.0, 5683.0, 5286.0, 5594.0, 5721.0, 5309.0, 5409.0, 5640.0, 5475.0, 5388.0, 5307.0, 5599.0, 5383.0, 5647.0, 5269.0, 5696.0, 5395.0, 5277.0, 5389.0, 5660.0, 5289.0, 5655.0, 5484.0, 5393.0, 5253.0, 5363.0, 5340.0, 5597.0, 5467.0, 5593.0, 5317.0, 5669.0, 5698.0, 5681.0, 5292.0, 5385.0, 5458.0, 5568.0, 5355.0, 5428.0, 5702.0, 5559.0, 5495.0, 5551.0, 5300.0, 5250.0, 5421.0, 5642.0, 5370.0, 5263.0, 5310.0, 5299.0, 5479.0, 5344.0, 5517.0, 5392.0, 5723.0, 5359.0, 5360.0, 5407.0, 5673.0
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18	5510	9	1	333	1	5462.0, 5698.0, 5308.0, 5393.0, 5481.0, 5677.0, 5569.0, 5629.0, 5721.0, 5428.0, 5724.0, 5647.0, 5592.0, 5537.0, 5526.0, 5372.0, 5496.0, 5665.0, 5408.0, 5718.0, 5469.0, 5573.0, 5515.0, 5321.0, 5482.0, 5277.0, 5574.0, 5508.0, 5352.0, 5276.0, 5293.0, 5636.0, 5453.0, 5612.0, 5472.0, 5494.0, 5360.0, 5542.0, 5560.0, 5601.0, 5354.0, 5269.0, 5447.0, 5404.0, 5529.0, 5381.0, 5495.0, 5581.0, 5326.0, 5424.0, 5325.0, 5356.0, 5587.0, 5327.0, 5501.0, 5597.0, 5663.0, 5448.0, 5258.0, 5349.0, 5255.0, 5274.0, 5631.0, 5637.0, 5519.0, 5390.0, 5505.0, 5633.0, 5570.0, 5296.0,

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20	5510	9	1	333	1	5696.0, 5701.0, 5388.0, 5376.0, 5472.0, 5698.0, 5502.0, 5548.0, 5613.0, 5524.0, 5484.0, 5251.0, 5669.0, 5398.0, 5518.0, 5589.0, 5601.0, 5415.0, 5356.0, 5667.0, 5665.0, 5618.0, 5570.0, 5369.0, 5523.0, 5546.0, 5290.0, 5291.0, 5400.0, 5655.0, 5360.0, 5573.0, 5569.0, 5452.0, 5552.0, 5496.0, 5658.0, 5621.0, 5641.0, 5372.0, 5705.0, 5410.0, 5412.0, 5355.0, 5706.0, 5375.0, 5403.0, 5478.0, 5461.0, 5526.0, 5310.0, 5326.0, 5300.0, 5480.0, 5513.0, 5470.0, 5275.0, 5268.0, 5427.0, 5614.0, 5339.0, 5358.0, 5281.0, 5351.0, 5677.0, 5583.0, 5407.0, 5361.0, 5509.0, 5334.0, 5720.0, 5324.0, 5278.0, 5253.0, 5721.0, 5581.0, 5373.0, 5611.0, 5454.0, 5629.0, 5297.0, 5279.0, 5313.0, 5425.0, 5703.0, 5365.0, 5424.0, 5647.0, 5628.0, 5702.0, 5722.0, 5444.0, 5490.0, 5429.0, 5258.0, 5488.0, 5541.0, 5308.0, 5565.0, 5645.0
21	5510	9	1	333	1	5297.0, 5577.0, 5631.0, 5529.0, 5612.0, 5259.0, 5717.0, 5604.0, 5448.0, 5705.0, 5702.0, 5289.0, 5302.0, 5320.0, 5418.0, 5385.0, 5581.0, 5429.0, 5556.0, 5392.0, 5669.0, 5326.0, 5547.0, 5526.0, 5463.0, 5338.0, 5427.0, 5315.0, 5252.0, 5677.0, 5262.0, 5539.0, 5525.0, 5682.0, 5345.0, 5570.0, 5350.0, 5372.0, 5559.0, 5666.0, 5514.0, 5620.0, 5674.0, 5579.0, 5362.0, 5565.0, 5475.0, 5323.0, 5555.0, 5683.0, 5546.0, 5473.0, 5465.0, 5701.0, 5254.0, 5621.0, 5505.0, 5704.0, 5469.0, 5509.0, 5582.0, 5678.0, 5444.0, 5645.0, 5379.0, 5575.0, 5439.0, 5373.0, 5511.0, 5637.0,

						5381.0, 5628.0, 5329.0, 5307.0, 5279.0, 5670.0, 5703.0, 5513.0, 5641.0, 5625.0, 5476.0, 5274.0, 5466.0, 5359.0, 5723.0, 5495.0, 5698.0, 5626.0, 5692.0, 5403.0, 5256.0, 5583.0, 5292.0, 5606.0, 5322.0, 5623.0, 5348.0, 5457.0, 5263.0, 5598.0
22	5510	9	1	333	1	5271.0, 5265.0, 5531.0, 5322.0, 5394.0, 5575.0, 5499.0, 5503.0, 5611.0, 5661.0, 5270.0, 5719.0, 5591.0, 5669.0, 5440.0, 5331.0, 5432.0, 5267.0, 5495.0, 5336.0, 5278.0, 5304.0, 5724.0, 5524.0, 5425.0, 5466.0, 5420.0, 5584.0, 5616.0, 5389.0, 5473.0, 5564.0, 5581.0, 5605.0, 5416.0, 5339.0, 5251.0, 5717.0, 5346.0, 5496.0, 5721.0, 5483.0, 5552.0, 5357.0, 5334.0, 5309.0, 5332.0, 5720.0, 5554.0, 5585.0, 5493.0, 5323.0, 5646.0, 5458.0, 5537.0, 5387.0, 5457.0, 5354.0, 5582.0, 5527.0, 5648.0, 5643.0, 5536.0, 5668.0, 5319.0, 5686.0, 5491.0, 5608.0, 5355.0, 5637.0, 5324.0, 5612.0, 5441.0, 5469.0, 5410.0, 5285.0, 5701.0, 5413.0, 5308.0, 5716.0, 5359.0, 5287.0, 5277.0, 5528.0, 5445.0, 5593.0, 5400.0, 5426.0, 5659.0, 5690.0, 5348.0, 5626.0, 5252.0, 5290.0, 5472.0, 5618.0, 5541.0, 5572.0, 5375.0, 5678.0
23	5510	9	1	333	1	5397.0, 5570.0, 5654.0, 5716.0, 5337.0, 5412.0, 5687.0, 5615.0, 5709.0, 5584.0, 5438.0, 5251.0, 5558.0, 5303.0, 5424.0, 5297.0, 5454.0, 5381.0, 5675.0, 5376.0, 5680.0, 5480.0, 5359.0, 5404.0, 5498.0, 5691.0, 5651.0, 5673.0, 5386.0, 5514.0, 5481.0, 5594.0, 5478.0, 5335.0, 5565.0, 5621.0, 5382.0, 5610.0, 5678.0, 5521.0, 5531.0, 5425.0, 5525.0, 5625.0, 5443.0, 5608.0, 5275.0, 5278.0, 5476.0, 5368.0, 5442.0, 5499.0, 5276.0, 5527.0, 5559.0, 5339.0, 5264.0, 5410.0, 5603.0, 5705.0, 5273.0, 5577.0, 5530.0, 5593.0, 5508.0, 5258.0, 5436.0, 5720.0, 5440.0, 5708.0, 5391.0, 5694.0, 5469.0, 5509.0, 5301.0, 5346.0, 5617.0, 5350.0, 5516.0, 5629.0, 5707.0, 5253.0, 5604.0, 5298.0, 5596.0, 5657.0, 5403.0, 5373.0, 5302.0, 5630.0, 5272.0, 5387.0, 5483.0, 5677.0, 5293.0, 5485.0, 5437.0, 5457.0, 5390.0, 5401.0
24	5510	9	1	333	1	5303.0, 5268.0, 5459.0, 5304.0, 5693.0, 5604.0, 5331.0, 5510.0, 5298.0, 5552.0, 5595.0, 5486.0, 5300.0, 5318.0, 5284.0, 5326.0, 5663.0, 5308.0, 5484.0, 5605.0, 5345.0, 5598.0, 5642.0, 5660.0, 5315.0, 5702.0, 5696.0, 5447.0, 5480.0, 5503.0, 5499.0, 5609.0, 5513.0, 5672.0, 5615.0, 5263.0, 5652.0, 5451.0, 5311.0, 5496.0, 5512.0, 5294.0, 5502.0, 5506.0, 5683.0, 5444.0, 5591.0, 5359.0, 5647.0, 5515.0, 5384.0, 5717.0, 5438.0, 5539.0, 5329.0, 5364.0, 5276.0, 5489.0, 5553.0, 5302.0, 5392.0, 5487.0, 5579.0, 5593.0, 5681.0, 5285.0, 5491.0, 5671.0, 5522.0, 5425.0,

						5689.0, 5401.0, 5687.0, 5264.0, 5504.0, 5568.0, 5375.0, 5341.0, 5439.0, 5336.0, 5592.0, 5253.0, 5423.0, 5617.0, 5649.0, 5273.0, 5323.0, 5662.0, 5483.0, 5320.0, 5279.0, 5475.0, 5703.0, 5456.0, 5571.0, 5550.0, 5612.0, 5310.0, 5347.0, 5653.0
25	5510	9	1	333	1	5397.0, 5285.0, 5681.0, 5647.0, 5492.0, 5491.0, 5609.0, 5713.0, 5362.0, 5653.0, 5613.0, 5430.0, 5270.0, 5370.0, 5325.0, 5547.0, 5579.0, 5286.0, 5537.0, 5514.0, 5583.0, 5584.0, 5641.0, 5423.0, 5718.0, 5466.0, 5257.0, 5640.0, 5523.0, 5626.0, 5621.0, 5504.0, 5539.0, 5634.0, 5297.0, 5310.0, 5648.0, 5520.0, 5428.0, 5361.0, 5719.0, 5590.0, 5515.0, 5532.0, 5562.0, 5620.0, 5649.0, 5599.0, 5429.0, 5675.0, 5644.0, 5336.0, 5618.0, 5345.0, 5348.0, 5379.0, 5666.0, 5500.0, 5555.0, 5534.0, 5266.0, 5380.0, 5268.0, 5605.0, 5294.0, 5720.0, 5706.0, 5332.0, 5689.0, 5686.0, 5592.0, 5393.0, 5475.0, 5616.0, 5690.0, 5264.0, 5305.0, 5472.0, 5398.0, 5365.0, 5469.0, 5312.0, 5377.0, 5366.0, 5369.0, 5524.0, 5417.0, 5484.0, 5507.0, 5437.0, 5516.0, 5367.0, 5478.0, 5315.0, 5660.0, 5701.0, 5670.0, 5659.0, 5252.0, 5494.0
26	5510	9	1	333	1	5430.0, 5705.0, 5610.0, 5313.0, 5358.0, 5396.0, 5426.0, 5573.0, 5565.0, 5644.0, 5361.0, 5517.0, 5532.0, 5404.0, 5252.0, 5294.0, 5604.0, 5447.0, 5351.0, 5617.0, 5478.0, 5432.0, 5643.0, 5307.0, 5641.0, 5576.0, 5406.0, 5315.0, 5428.0, 5368.0, 5677.0, 5635.0, 5552.0, 5407.0, 5434.0, 5496.0, 5476.0, 5281.0, 5600.0, 5256.0, 5354.0, 5501.0, 5348.0, 5328.0, 5679.0, 5700.0, 5343.0, 5694.0, 5592.0, 5309.0, 5578.0, 5681.0, 5649.0, 5660.0, 5411.0, 5472.0, 5394.0, 5363.0, 5654.0, 5435.0, 5557.0, 5513.0, 5523.0, 5529.0, 5551.0, 5444.0, 5494.0, 5546.0, 5568.0, 5656.0, 5518.0, 5350.0, 5352.0, 5408.0, 5488.0, 5566.0, 5714.0, 5270.0, 5482.0, 5471.0, 5339.0, 5608.0, 5304.0, 5276.0, 5521.0, 5630.0, 5699.0, 5374.0, 5302.0, 5567.0, 5622.0, 5696.0, 5362.0, 5466.0, 5689.0, 5454.0, 5509.0, 5711.0, 5545.0, 5287.0
27	5510	9	1	333	1	5304.0, 5363.0, 5679.0, 5431.0, 5514.0, 5381.0, 5520.0, 5325.0, 5390.0, 5287.0, 5688.0, 5683.0, 5455.0, 5311.0, 5546.0, 5388.0, 5432.0, 5715.0, 5451.0, 5281.0, 5472.0, 5372.0, 5260.0, 5718.0, 5554.0, 5419.0, 5609.0, 5723.0, 5646.0, 5607.0, 5543.0, 5704.0, 5716.0, 5589.0, 5480.0, 5624.0, 5470.0, 5339.0, 5269.0, 5302.0, 5330.0, 5692.0, 5417.0, 5278.0, 5442.0, 5521.0, 5581.0, 5639.0, 5271.0, 5301.0, 5491.0, 5601.0, 5286.0, 5628.0, 5308.0, 5540.0, 5359.0, 5255.0, 5545.0, 5582.0, 5310.0, 5448.0, 5571.0, 5693.0, 5276.0, 5266.0, 5342.0, 5294.0, 5662.0, 5413.0,

						5655.0, 5263.0, 5653.0, 5706.0, 5563.0, 5708.0, 5367.0, 5272.0, 5306.0, 5652.0, 5386.0, 5483.0, 5398.0, 5331.0, 5527.0, 5542.0, 5412.0, 5426.0, 5643.0, 5454.0, 5341.0, 5670.0, 5599.0, 5421.0, 5703.0, 5415.0, 5574.0, 5295.0, 5340.0, 5709.0
28	5510	9	1	333	1	5702.0, 5698.0, 5600.0, 5379.0, 5660.0, 5286.0, 5352.0, 5585.0, 5603.0, 5636.0, 5321.0, 5542.0, 5670.0, 5651.0, 5618.0, 5666.0, 5303.0, 5526.0, 5519.0, 5291.0, 5390.0, 5631.0, 5713.0, 5525.0, 5499.0, 5623.0, 5472.0, 5445.0, 5415.0, 5696.0, 5596.0, 5549.0, 5479.0, 5521.0, 5543.0, 5252.0, 5677.0, 5331.0, 5295.0, 5305.0, 5592.0, 5641.0, 5680.0, 5616.0, 5273.0, 5653.0, 5326.0, 5324.0, 5540.0, 5614.0, 5646.0, 5567.0, 5701.0, 5570.0, 5456.0, 5678.0, 5584.0, 5477.0, 5706.0, 5547.0, 5265.0, 5510.0, 5611.0, 5396.0, 5668.0, 5633.0, 5460.0, 5555.0, 5720.0, 5333.0, 5332.0, 5258.0, 5372.0, 5382.0, 5619.0, 5548.0, 5594.0, 5362.0, 5419.0, 5463.0, 5583.0, 5569.0, 5538.0, 5541.0, 5345.0, 5607.0, 5533.0, 5688.0, 5498.0, 5269.0, 5712.0, 5344.0, 5661.0, 5683.0, 5302.0, 5558.0, 5276.0, 5338.0, 5648.0, 5280.0
29	5510	9	1	333	1	5513.0, 5700.0, 5708.0, 5338.0, 5287.0, 5388.0, 5561.0, 5575.0, 5533.0, 5568.0, 5712.0, 5393.0, 5278.0, 5450.0, 5674.0, 5326.0, 5675.0, 5471.0, 5405.0, 5265.0, 5284.0, 5447.0, 5473.0, 5281.0, 5428.0, 5672.0, 5632.0, 5339.0, 5576.0, 5508.0, 5347.0, 5545.0, 5436.0, 5518.0, 5283.0, 5531.0, 5261.0, 5661.0, 5602.0, 5578.0, 5540.0, 5718.0, 5538.0, 5444.0, 5475.0, 5321.0, 5438.0, 5288.0, 5500.0, 5251.0, 5654.0, 5652.0, 5559.0, 5558.0, 5507.0, 5543.0, 5427.0, 5465.0, 5544.0, 5669.0, 5651.0, 5679.0, 5616.0, 5407.0, 5460.0, 5719.0, 5375.0, 5620.0, 5255.0, 5316.0, 5664.0, 5439.0, 5629.0, 5277.0, 5577.0, 5601.0, 5386.0, 5400.0, 5486.0, 5292.0, 5562.0, 5516.0, 5707.0, 5699.0, 5411.0, 5597.0, 5327.0, 5466.0, 5307.0, 5613.0, 5317.0, 5380.0, 5585.0, 5643.0, 5376.0, 5685.0, 5257.0, 5298.0, 5609.0, 5404.0
30	5510	9	1	333	1	5518.0, 5390.0, 5434.0, 5519.0, 5260.0, 5363.0, 5323.0, 5473.0, 5538.0, 5630.0, 5574.0, 5296.0, 5696.0, 5555.0, 5556.0, 5439.0, 5375.0, 5653.0, 5455.0, 5342.0, 5494.0, 5315.0, 5257.0, 5465.0, 5655.0, 5577.0, 5708.0, 5405.0, 5355.0, 5625.0, 5608.0, 5331.0, 5647.0, 5389.0, 5344.0, 5596.0, 5522.0, 5544.0, 5431.0, 5399.0, 5633.0, 5564.0, 5722.0, 5705.0, 5445.0, 5359.0, 5332.0, 5672.0, 5583.0, 5680.0, 5511.0, 5542.0, 5304.0, 5280.0, 5261.0, 5287.0, 5482.0, 5610.0, 5418.0, 5493.0, 5422.0, 5578.0, 5682.0, 5492.0, 5471.0, 5645.0, 5550.0, 5545.0, 5288.0, 5580.0,

						5549.0, 5316.0, 5302.0, 5711.0, 5346.0, 5563.0, 5295.0, 5358.0, 5487.0, 5484.0, 5274.0, 5412.0, 5569.0, 5540.0, 5657.0, 5663.0, 5646.0, 5470.0, 5378.0, 5666.0, 5585.0, 5602.0, 5684.0, 5634.0, 5341.0, 5361.0, 5387.0, 5252.0, 5305.0, 5285.0

80MHz Bandwidth

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

Please refer to the following statistical tables:

Radar Type 1A Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	67	1	798	1
2	5530	95	1	558	1
3	5530	65	1	818	1
4	5530	58	1	918	1
5	5530	99	1	538	1
6	5530	61	1	878	1
7	5530	81	1	658	1
8	5530	63	1	838	1
9	5530	57	1	938	1
10	5530	74	1	718	1
11	5530	70	1	758	1
12	5530	72	1	738	1
13	5530	83	1	638	1
14	5530	59	1	898	1
15	5530	78	1	678	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	5530	67	1	798	1
2	5530	95	1	558	1
3	5530	65	1	818	1
4	5530	58	1	918	1
5	5530	99	1	538	1
6	5530	61	1	878	1
7	5530	81	1	658	1
8	5530	63	1	838	1
9	5530	57	1	938	1
10	5530	74	1	718	1
11	5530	70	1	758	1
12	5530	72	1	738	1
13	5530	83	1	638	1
14	5530	59	1	898	1
15	5530	78	1	678	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	5530	25	2.3	224	1
2	5530	24	3.7	194	1
3	5530	23	3.7	167	1
4	5530	23	4.4	207	1
5	5530	28	2.1	167	1
6	5530	27	3.5	150	1
7	5530	26	1.9	226	1
8	5530	25	3.1	162	1
9	5530	24	4.4	159	1
10	5530	29	4.1	156	1
11	5530	25	3	223	1
12	5530	26	1.4	216	1
13	5530	23	3.3	170	1
14	5530	24	5	161	1
15	5530	29	5	187	1
16	5530	24	3.3	200	1
17	5530	24	2.3	164	1
18	5530	25	4	206	1
19	5530	27	4.1	163	1
20	5530	26	1.5	200	1
21	5530	23	4.4	169	1
22	5530	29	1.3	152	1
23	5530	23	3	183	1
24	5530	23	4	216	1
25	5530	24	1.5	216	1
26	5530	28	4	157	1
27	5530	29	2.9	162	1
28	5530	29	1.5	185	1
29	5530	25	3	161	1
30	5530	26	1.6	184	1
Detection Percentage: 100 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	17	6.7	338	1
2	5530	17	6.8	335	1
3	5530	18	6.1	422	1
4	5530	16	10	386	1
5	5530	16	9.5	362	1
6	5530	17	6.4	487	1
7	5530	17	7.4	415	1
8	5530	17	6.7	239	1
9	5530	18	8	484	1
10	5530	16	6.2	493	1
11	5530	16	6.1	415	1
12	5530	17	8.3	491	1
13	5530	17	10	227	1
14	5530	16	7.8	352	1
15	5530	18	8	323	1
16	5530	17	6.3	296	1
17	5530	16	8.3	211	1
18	5530	16	9.9	355	1
19	5530	18	9.2	434	1
20	5530	18	6.6	371	1
21	5530	16	6.8	437	1
22	5530	17	8	375	1
23	5530	18	8.5	243	1
24	5530	16	9.6	461	1
25	5530	17	7.7	384	1
26	5530	18	8.9	414	1
27	5530	16	6.9	333	1
28	5530	18	6.6	348	1
29	5530	17	9	295	1
30	5530	18	6.9	259	1
Detection Percentage: 100% (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	15	12.1	254	1
2	5530	12	11.5	284	1
3	5530	15	16.2	401	1
4	5530	16	15.7	234	1
5	5530	14	20	369	1
6	5530	16	17.9	349	1
7	5530	13	12.9	237	1
8	5530	12	19.1	312	1
9	5530	12	16.7	440	1
10	5530	12	13.8	244	1
11	5530	15	11.3	321	1
12	5530	16	13.9	317	1
13	5530	12	18.3	401	1
14	5530	15	17.7	422	1
15	5530	15	13.4	244	1
16	5530	12	20	309	1
17	5530	13	13.9	328	1
18	5530	13	11.8	486	1
19	5530	13	19.4	396	1
20	5530	14	18.4	488	1
21	5530	15	15.7	265	1
22	5530	15	13.3	342	1
23	5530	12	16.7	365	1
24	5530	15	12.6	489	1
25	5530	16	19.8	307	1
26	5530	12	18	266	1
27	5530	14	19	386	1
28	5530	12	16.7	337	1
29	5530	13	17.8	324	1
30	5530	12	15.8	224	1
Detection Percentage: 100 % (>60%)					

Radar Type 5 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5530MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	6	63.7	/	/	0.298698	
1	1	6	60.9	/	/	1.274793	
2	1	6	59.5	/	/	1.794963	
3	2	6	69.8	1354	/	2.640091	
4	1	6	70.4	/	/	3.655964	
5	1	6	93.3	/	/	4.545661	
6	2	6	69.8	1823	/	4.817861	
7	2	6	60.2	1660	/	5.603648	1
8	2	6	92	1625	/	6.83184	
9	2	6	87.9	1987	/	7.629539	
10	2	6	52.2	1269	/	8.392834	
11	3	6	71.9	1372	1109	9.379294	
12	3	6	95.7	1496	1645	10.249155	
13	3	6	98.5	1699	1925	10.693708	
14	1	6	53.2	/	/	11.379727	

Statistics 2 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	8	65.3	/	/	0.065053	
1	1	8	86.3	/	/	1.332737	
2	3	8	91.2	1885	1217	2.753891	
3	2	8	98.7	1455	/	3.827185	
4	2	8	72.3	1207	/	5.322482	
5	2	8	81.3	1992	/	5.892537	1
6	2	8	85	1320	/	6.760251	
7	2	8	70.1	1664	/	8.697762	
8	3	8	91.1	1846	1153	8.810081	
9	3	8	96.5	1581	1482	9.918597	
10	3	8	60	1084	1799	11.632156	

Statistics 3 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	16	84.1	/	/	0.064959	
1	2	16	63.8	1031	/	1.865177	
2	2	16	75.9	1472	/	2.924448	
3	2	16	60.8	1983	/	3.923615	
4	1	16	54.3	/	/	5.240495	
5	2	16	71.6	1285	/	5.76495	1
6	2	16	94.5	1082	/	7.342388	
7	1	16	85.9	/	/	7.935132	
8	2	16	81.2	1997	/	9.229349	
9	2	16	50.6	1278	/	10.277009	
10	2	16	58.1	1827	/	11.476145	

Statistics 4 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	11	81	1786	1581	0.566272	
1	2	11	98.5	1148	/	1.239608	
2	1	11	91.4	/	/	1.488369	
3	3	11	76.3	1223	1389	2.159478	
4	1	11	67.1	/	/	3.181647	
5	2	11	77.8	1246	/	3.689452	
6	2	11	61.6	1382	/	4.008323	
7	3	11	55.9	1114	1523	5.216471	
8	2	11	53	1841	/	5.81293	
9	1	11	98	/	/	6.360679	1
10	3	11	95.2	1586	1104	6.967678	
11	2	11	71	1072	/	7.824655	
12	2	11	82.3	1996	/	8.381301	
13	1	11	66.8	/	/	8.702945	
14	2	11	59	1380	/	9.675816	
15	2	11	77	1289	/	10.594388	
16	3	11	87.4	1123	1842	11.291938	
17	2	11	68.3	1679	/	11.927598	

Statistics 5 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	10	87.3	1795	/	0.600004	
1	2	10	81.7	1044	/	1.290576	
2	2	10	62.5	1571	/	1.569875	
3	3	10	54.9	1098	1241	2.310782	
4	3	10	75.1	1231	1696	3.268067	
5	3	10	62.4	1633	1033	4.15572	
6	1	10	52.2	/	/	4.402778	
7	1	10	68.3	/	/	5.572205	
8	1	10	66.7	/	/	5.831456	1
9	2	10	63.7	1340	/	6.786754	
10	2	10	94.6	1909	/	7.483603	
11	2	10	91.9	1844	/	8.413748	
12	3	10	66.3	1508	1233	8.64167	
13	1	10	58.7	/	/	9.765117	
14	2	10	78.1	1390	/	10.189667	
15	1	10	98.7	/	/	11.190522	
16	2	10	54.8	1156	/	11.685354	

Statistics 6 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	7	84.8	1613	1160	0.452913	
1	2	7	50.6	1543	/	1.004784	
2	3	7	85.6	1118	1132	1.752535	
3	3	7	95.8	1886	1607	2.004071	
4	2	7	89.5	1608	/	2.609988	
5	2	7	93.3	1381	/	3.241899	
6	2	7	92.1	1360	/	4.034065	
7	2	7	86.5	1248	/	4.640164	
8	2	7	89.6	1448	/	5.128629	
9	2	7	75.3	1253	/	5.933251	
10	3	7	51.6	1959	1700	6.04915	1
11	2	7	69.2	1117	/	7.001018	
12	1	7	50.7	/	/	7.679282	
13	3	7	99.4	1709	1040	8.364503	
14	2	7	50.4	1690	/	8.627452	
15	2	7	50.4	1582	/	9.404503	
16	1	7	69.9	/	/	9.917076	
17	1	7	84.7	/	/	10.425258	
18	2	7	60.2	1031	/	10.919031	
19	2	7	95.8	1244	/	11.925417	

Statistics 7 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	13	52.9	/	/	0.457603	1
1	3	13	76.6	1878	1234	1.68545	
2	1	13	95.6	/	/	2.695261	
3	1	13	53	/	/	3.80336	
4	3	13	80.3	1520	1541	4.40223	
5	1	13	64.8	/	/	5.711102	
6	2	13	94.6	1171	/	6.551161	
7	3	13	51.2	1598	1823	8.287546	
8	2	13	64.7	1356	/	9.401978	
9	2	13	54.1	1141	/	10.457624	
10	2	13	80.1	1869	/	11.61836	

Statistics 8 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	86.2	1911	/	0.556122	1
1	3	16	69	1058	1627	1.233963	
2	2	16	56.3	1600	/	3.228077	
3	3	16	78.7	1141	1028	4.294075	
4	3	16	67.2	1331	1165	5.156822	
5	3	16	94.4	1699	1171	6.314191	
6	2	16	79.7	1544	/	8.258118	
7	1	16	77.9	/	/	8.540527	
8	3	16	61.2	1323	1292	10.738031	
9	2	16	97.7	1224	/	11.992337	

Statistics 9 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	77.6	1351	/	0.067773	1
1	3	16	79.2	1668	1460	0.864483	
2	1	16	99.2	/	/	2.217882	
3	2	16	61.5	1403	/	2.396562	
4	1	16	85.4	/	/	3.693279	
5	2	16	94.6	1600	/	4.473613	
6	1	16	72.3	/	/	4.626052	
7	1	16	89.1	/	/	5.282877	
8	3	16	64.3	1269	1080	6.563723	
9	2	16	52.1	1888	/	7.241821	
10	3	16	98.5	1421	1967	8.185472	
11	3	16	56.8	1492	1724	8.314978	
12	1	16	68.9	/	/	9.145681	
13	2	16	73	1988	/	10.221998	
14	3	16	73.8	1295	1524	10.997158	
15	2	16	94.5	1929	/	11.449089	

Statistics 10 (ChirpCenter Frequency: 5530 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	10	80.2	1135	1993	0.026588	1
1	1	10	76.3	/	/	1.148104	
2	2	10	63.7	1120	/	2.323027	
3	2	10	99	1214	/	3.648084	
4	1	10	83.2	/	/	4.446862	
5	2	10	51.7	1870	/	5.187142	
6	2	10	61.1	1433	/	6.395931	
7	3	10	64.7	1611	1285	6.735986	
8	3	10	66.5	1846	1774	7.605738	
9	3	10	68.9	1201	1703	8.417018	
10	2	10	97.7	1726	/	9.506541	
11	3	10	74.2	1835	1272	10.255253	
12	3	10	70.4	1914	1908	11.261014	

Radar Type 5 Statistica2 Performance

Statistics 1 (ChirpCenter Frequency: 5498MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	15	70.2	1265	1318	0.050141	1
1	2	15	70.8	1692	/	1.069782	
2	3	15	74.7	1803	1496	2.382358	
3	2	15	67.5	1996	/	2.580621	
4	1	15	91.9	/	/	4.030621	
5	3	15	62	1610	1204	4.412317	
6	3	15	50.5	1380	1655	5.345283	
7	2	15	97.6	1111	/	6.777178	
8	2	15	52.1	1163	/	7.174602	
9	1	15	61	/	/	7.932702	
10	2	15	89.3	1369	/	9.073707	
11	3	15	59	1156	1043	9.684017	
12	2	15	64.1	1900	/	10.818188	
13	2	15	75.3	1327	/	11.377421	

Statistics 2 (ChirpCenter Frequency: 5496 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	10	94.2	/	/	1.054901	1
1	2	10	83.9	1274	/	1.952963	
2	3	10	56.1	1043	1426	2.340957	
3	2	10	74.9	1905	/	4.106642	
4	2	10	86.4	1714	/	5.117997	
5	1	10	72.4	/	/	5.97495	
6	2	10	87.6	1057	/	7.424221	
7	1	10	54.3	/	/	8.02721	
8	2	10	88.2	1173	/	8.837301	
9	2	10	78.1	1085	/	10.663197	
10	1	10	100	/	/	11.63611	

Statistics 3 (ChirpCenter Frequency: 5498 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	16	57.8	1562	/	0.596773	
1	2	16	90	1044	/	1.143282	
2	1	16	69	/	/	1.741816	
3	1	16	82.8	/	/	2.510962	
4	2	16	72.2	1296	/	2.823212	
5	2	16	58.8	1840	/	3.454133	
6	3	16	86.5	1769	1287	4.412469	
7	2	16	59.6	1724	/	4.840169	
8	1	16	72.3	/	/	5.169182	
9	3	16	73.6	1837	1288	5.768911	1
10	2	16	55.7	1073	/	6.356443	
11	3	16	92.6	1639	1313	7.203863	
12	2	16	99.8	2000	/	8.002266	
13	2	16	83.8	1973	/	8.77632	
14	1	16	84.2	/	/	9.118422	
15	3	16	78.8	1994	1543	9.546453	
16	3	16	50.3	1212	1905	10.536657	
17	2	16	67.5	1368	/	11.313085	
18	2	16	83.9	1397	/	11.799189	

Statistics 4 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	7	53.9	1513	1201	0.318743	
1	2	7	99.4	1528	/	0.860459	
2	1	7	91.6	/	/	1.877495	
3	2	7	96	1739	/	2.594147	
4	1	7	70.5	/	/	2.781581	
5	2	7	72.3	1484	/	3.851572	
6	2	7	69.1	1593	/	4.25243	
7	2	7	56.3	1466	/	5.275375	
8	2	7	59.7	1686	/	5.652807	
9	2	7	72.2	1111	/	6.604799	1
10	3	7	68.9	1339	1318	7.290613	
11	3	7	83	1325	1382	7.940486	
12	1	7	66.1	/	/	8.160678	
13	1	7	50.4	/	/	9.067068	
14	1	7	76.8	/	/	9.854817	
15	3	7	53.6	1688	1358	10.261911	
16	2	7	54.6	1892	/	11.259728	
17	1	7	78.8	/	/	11.857883	

Statistics 5 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	8	98.3	/	/	0.60459	1
1	3	8	57.8	1593	1859	1.739239	
2	2	8	80.5	1767	/	2.097098	
3	3	8	85.9	1805	1076	3.226187	
4	2	8	68.3	1284	/	4.693049	
5	3	8	85.1	1556	1363	5.621129	
6	3	8	53.1	1408	1335	6.595907	
7	2	8	71.2	1183	/	7.235884	
8	1	8	67	/	/	8.18769	
9	3	8	72.5	1003	1434	9.899269	
10	2	8	70.2	1353	/	10.895526	
11	2	8	96.6	1293	/	11.484005	

Statistics 6 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	8	56.9	1310	1557	0.407561	1
1	2	8	70.7	1263	/	1.107466	
2	1	8	61.9	/	/	1.702817	
3	2	8	95.4	1797	/	1.90686	
4	2	8	80.1	1949	/	2.797183	
5	3	8	50.8	1762	1312	3.245723	
6	2	8	88.5	1775	/	3.666228	
7	3	8	65.2	1942	1163	4.584795	
8	3	8	58.5	1335	1729	5.057066	
9	1	8	81.2	/	/	5.749941	
10	2	8	59.2	1364	/	6.082597	
11	3	8	93.1	1718	1655	6.879102	
12	2	8	94	1025	/	7.440738	
13	2	8	87.5	1968	/	7.846116	
14	2	8	95.7	1815	/	8.905856	
15	2	8	86	1271	/	9.489295	
16	1	8	62.6	/	/	9.624077	
17	2	8	54.7	1334	/	10.682832	
18	3	8	68.1	1516	1456	11.212756	
19	3	8	73.8	1613	2000	11.636935	

Statistics 7 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	7	91.9	1473	/	0.051662	1
1	1	7	67.9	/	/	1.582795	
2	2	7	88	1259	/	3.091878	
3	2	7	81	1133	/	4.115177	
4	2	7	92.1	1593	/	4.524997	
5	3	7	64.2	1586	1100	6.425409	
6	3	7	75	1203	1404	7.111548	
7	2	7	59.2	1028	/	7.751741	
8	2	7	64.8	1869	/	9.026738	
9	2	7	55.2	1013	/	10.293516	
10	3	7	66.5	1952	1791	11.147709	

Statistics 8 (ChirpCenter Frequency: 5495 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	7	95.1	/	/	0.204518	1
1	1	7	58.9	/	/	1.391435	
2	2	7	52.6	1072	/	2.265999	
3	2	7	78.9	1222	/	2.806946	
4	2	7	50.6	1138	/	3.961545	
5	2	7	79.1	1246	/	4.760592	
6	2	7	99.5	1830	/	5.87051	
7	2	7	60.8	1306	/	6.294008	
8	2	7	85.1	1291	/	7.390717	
9	2	7	58.9	1208	/	8.206639	
10	2	7	77.3	1668	/	9.083871	
11	1	7	83.4	/	/	9.694927	
12	3	7	60.1	1151	1980	11.064448	
13	1	7	92.5	/	/	11.364902	

Statistics 9 (ChirpCenter Frequency: 5494 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	6	61.4	1959	/	0.249104	1
1	2	6	62.3	1330	/	0.980622	
2	2	6	88	1580	/	1.628311	
3	1	6	60.8	/	/	3.072881	
4	2	6	52.7	1834	/	3.32041	
5	2	6	65.7	1758	/	4.30319	
6	2	6	84.7	1676	/	5.581476	
7	2	6	83.6	1609	/	6.225053	
8	1	6	72.6	/	/	6.564073	
9	3	6	64.2	1665	1757	7.249488	
10	2	6	99.4	1049	/	8.682337	
11	3	6	66.3	1894	1456	9.516351	
12	2	6	97.9	1038	/	10.290473	
13	2	6	73.4	1173	/	10.793433	
14	2	6	93.7	1643	/	11.205803	

Statistics 10 (ChirpCenter Frequency: 5500 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	20	81.9	/	/	0.058669	1
1	2	20	65.1	1953	/	1.185924	
2	3	20	58.7	1204	1114	1.773583	
3	2	20	84.6	1044	/	2.24283	
4	2	20	71.9	1570	/	2.629052	
5	1	20	59.4	/	/	3.104045	
6	1	20	55.3	/	/	3.801739	
7	2	20	65.6	1936	/	4.33402	
8	2	20	89.2	1656	/	4.930104	
9	2	20	70.8	1406	/	5.867578	
10	2	20	51.2	1010	/	6.076156	
11	1	20	84.6	/	/	7.149494	
12	2	20	56.2	1213	/	7.786896	
13	1	20	86.8	/	/	8.211441	
14	2	20	82.7	1201	/	8.798371	
15	1	20	82.7	/	/	9.184733	
16	3	20	82.5	1884	1597	9.876884	
17	1	20	70.8	/	/	10.286603	
18	1	20	57.3	/	/	11.325944	
19	2	20	75.6	1738	/	11.657392	

Radar Type 5 Statistica3 Performance

Statistics 1 (ChirpCenter Frequency: 5564MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	9	76	1808	/	0.478343	1
1	2	9	83.9	1740	/	1.132677	
2	3	9	54.4	1212	1378	1.598528	
3	2	9	98.8	1373	/	2.538373	
4	1	9	82.1	/	/	3.259871	
5	2	9	98.9	1576	/	3.915529	
6	2	9	83.7	1710	/	5.135051	
7	3	9	87.7	1876	1767	5.391756	
8	2	9	98	1643	/	6.339956	
9	1	9	98.1	/	/	7.327956	
10	1	9	89.5	/	/	7.81435	
11	2	9	78	1058	/	8.355245	
12	2	9	51.6	1108	/	9.378578	
13	1	9	82.5	/	/	10.07144	
14	2	9	78.5	1803	/	11.112527	
15	2	9	75.5	1578	/	11.712723	

Statistics 2 (ChirpCenter Frequency: 5565 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	7	82.4	1129	/	0.739464	1
1	2	7	91.5	1413	/	1.449551	
2	3	7	77.8	1747	1473	2.307217	
3	1	7	80.2	/	/	2.61796	
4	2	7	74.5	1753	/	3.808418	
5	1	7	53.9	/	/	4.978813	
6	1	7	97.7	/	/	5.526072	
7	2	7	63.6	1840	/	6.382782	
8	2	7	58.3	1093	/	6.960316	
9	3	7	98.8	1783	1215	7.917501	
10	3	7	83.7	1930	1942	8.939852	
11	3	7	76.2	1700	1767	9.712631	
12	2	7	52.6	1878	/	10.359289	
13	1	7	75.7	/	/	11.75692	

Statistics 3 (ChirpCenter Frequency: 5566 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	6	60.6	1461	/	0.785608	1
1	2	6	72.8	1081	/	2.045192	
2	3	6	91.4	1849	1150	3.18272	
3	2	6	75.9	1801	/	4.431024	
4	2	6	97	1525	/	5.888649	
5	2	6	67.6	1035	/	6.83736	
6	3	6	56.1	1885	1178	8.125234	
7	2	6	73.6	1246	/	9.059953	
8	2	6	74.6	1466	/	10.500439	
9	3	6	58.7	1598	1567	11.706573	

Statistics 4 (ChirpCenter Frequency: 5563 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	3	13	79.3	1304	1863	0.190558	1
1	2	13	93.9	1904	/	1.674118	
2	3	13	86.8	1314	1188	2.563635	
3	3	13	91.2	1264	1920	4.140518	
4	1	13	87.3	/	/	5.448363	
5	1	13	80.5	/	/	6.666735	
6	1	13	75.4	/	/	7.807737	
7	1	13	92.5	/	/	9.03623	
8	2	13	84.7	1506	/	10.487669	
9	1	13	76.6	/	/	10.979754	

Statistics 5 (ChirpCenter Frequency: 5562 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	15	84.7	1546	/	0.011378	1
1	3	15	61	1412	1866	2.061414	
2	2	15	86.4	1221	/	2.616538	
3	1	15	68.1	/	/	4.024462	
4	2	15	72.2	1389	/	4.833643	
5	2	15	60.5	1138	/	6.051272	
6	2	15	59.8	1557	/	7.893615	
7	2	15	91	1644	/	9.51893	
8	2	15	88.2	1424	/	9.714792	
9	1	15	71.7	/	/	11.273757	

Statistics 6 (ChirpCenter Frequency: 5564 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	60.8	1408	/	0.230447	1
1	2	11	64.9	1877	/	0.756731	
2	2	11	73.9	1610	/	1.411943	
3	3	11	94.7	1216	1388	2.020369	
4	2	11	92.9	1611	/	2.526496	
5	1	11	55.2	/	/	3.435421	
6	2	11	71.3	1225	/	3.817451	
7	2	11	68.1	1985	/	4.516109	
8	2	11	84.1	1163	/	5.0455	
9	2	11	68.1	1307	/	5.57865	
10	1	11	82.8	/	/	6.529321	
11	1	11	92.7	/	/	7.000399	
12	2	11	78.4	1463	/	7.262598	
13	1	11	70.5	/	/	8.247055	
14	1	11	88	/	/	8.574144	
15	2	11	55.6	1626	/	9.58807	
16	2	11	86.1	1775	/	10.138012	
17	2	11	50.6	1474	/	10.375023	
18	2	11	75.4	1044	/	10.810598	
19	2	11	51.6	1235	/	11.498986	

Statistics 7 (ChirpCenter Frequency: 5564 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	11	81.4	1938	/	0.235463	1
1	3	11	52.8	1253	1392	1.543071	
2	2	11	99.3	1280	/	2.122113	
3	1	11	75.5	/	/	3.085204	
4	3	11	52.7	1262	1632	3.83467	
5	2	11	73.2	1229	/	4.531328	
6	2	11	57.9	1221	/	5.423637	
7	3	11	71.7	1783	1507	6.122579	
8	1	11	94.3	/	/	6.950458	
9	3	11	53.8	1626	1673	8.408259	
10	1	11	77.2	/	/	9.275835	
11	1	11	62	/	/	10.105926	
12	1	11	88	/	/	11.054517	
13	2	11	52	1199	/	11.930246	

Statistics 8 (ChirpCenter Frequency: 5562 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	14	63.8	1946	/	0.321216	1
1	1	14	80.6	/	/	0.6818	
2	2	14	73.9	1738	/	1.33858	
3	2	14	51.4	1642	/	2.297644	
4	2	14	93.3	1809	/	2.656227	
5	2	14	88.5	1422	/	3.140443	
6	3	14	65.2	1695	1428	3.823669	
7	3	14	51	1000	1944	4.305214	
8	1	14	70.6	/	/	5.035798	
9	3	14	67.1	1978	1374	5.771237	
10	1	14	82.8	/	/	6.050024	
11	2	14	55.2	1983	/	6.863836	
12	1	14	95.2	/	/	7.409185	
13	3	14	82	1839	1987	8.125644	
14	3	14	62.2	1839	1866	8.62933	
15	3	14	63.8	1675	1549	9.497239	
16	2	14	97.2	1469	/	9.863242	
17	2	14	95.1	1989	/	10.390675	
18	2	14	93	1706	/	11.337962	
19	3	14	85.4	1350	1188	11.453444	

Statistics 9 (ChirpCenter Frequency: 5563 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	2	12	73.7	1686	/	0.171103	1
1	2	12	70	1168	/	0.832301	
2	2	12	90.4	1586	/	1.974481	
3	1	12	67	/	/	2.169194	
4	1	12	98.6	/	/	2.912085	
5	3	12	79.9	1867	1575	3.988414	
6	3	12	76.4	1907	1985	4.31833	
7	1	12	55.3	/	/	5.045555	
8	2	12	94	1675	/	5.569036	
9	2	12	56	1411	/	6.115053	
10	1	12	89.9	/	/	6.686052	
11	1	12	71.3	/	/	7.392464	
12	1	12	51.9	/	/	8.244706	
13	2	12	87	1053	/	9.007185	
14	1	12	63.4	/	/	9.837692	
15	2	12	57.5	1103	/	10.042707	
16	2	12	93.9	1676	/	11.054134	
17	3	12	50.4	1332	1015	11.3968	

Statistics 10 (ChirpCenter Frequency: 5562 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(mS)	Detection (1:yes;0:no)
0	1	14	98.2	/	/	1.049303	1
1	3	14	55.4	1319	1918	2.026802	
2	2	14	98.3	1484	/	2.991853	
3	1	14	65.2	/	/	3.704534	
4	3	14	54.4	1962	1683	4.946522	
5	1	14	99.5	/	/	6.195956	
6	2	14	70.1	1877	/	7.482409	
7	2	14	70.2	1175	/	7.680978	
8	3	14	57.7	1205	1499	9.533292	
9	2	14	57.7	1078	/	9.861916	
10	1	14	68	/	/	11.286752	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (GHz)
1	5530	9	1	333	1	5398.0, 5642.0, 5699.0, 5444.0, 5409.0, 5598.0, 5320.0, 5659.0, 5593.0, 5620.0, 5654.0, 5488.0, 5432.0, 5443.0, 5516.0, 5325.0, 5611.0, 5317.0, 5692.0, 5339.0, 5713.0, 5366.0, 5710.0, 5504.0, 5711.0, 5479.0, 5485.0, 5311.0, 5684.0, 5697.0, 5694.0, 5462.0, 5471.0, 5631.0, 5683.0, 5484.0, 5470.0, 5588.0, 5375.0, 5630.0, 5546.0, 5602.0, 5392.0, 5480.0, 5436.0, 5617.0, 5532.0, 5336.0, 5256.0, 5277.0, 5490.0, 5338.0, 5527.0, 5472.0, 5415.0, 5643.0, 5289.0, 5652.0, 5340.0, 5675.0, 5691.0, 5608.0, 5358.0, 5342.0, 5414.0, 5290.0, 5282.0, 5579.0, 5344.0, 5321.0, 5712.0, 5306.0, 5672.0, 5426.0, 5574.0, 5463.0, 5449.0, 5648.0, 5601.0, 5259.0, 5367.0, 5537.0, 5494.0, 5554.0, 5543.0, 5535.0, 5693.0, 5530.0, 5557.0, 5459.0, 5304.0, 5273.0, 5539.0, 5623.0, 5453.0, 5476.0, 5633.0, 5315.0, 5263.0, 5518.0
2	5530	9	1	333	1	5704.0, 5339.0, 5543.0, 5472.0, 5442.0, 5469.0, 5682.0, 5676.0, 5574.0, 5273.0, 5456.0, 5253.0, 5517.0, 5298.0, 5681.0, 5365.0, 5344.0, 5643.0, 5719.0, 5715.0, 5651.0, 5636.0, 5467.0, 5613.0, 5659.0, 5602.0, 5478.0, 5547.0, 5486.0, 5723.0, 5683.0, 5431.0, 5655.0, 5343.0, 5573.0, 5410.0, 5281.0, 5549.0, 5358.0, 5424.0, 5429.0, 5578.0, 5712.0, 5662.0, 5588.0, 5445.0, 5679.0, 5342.0, 5566.0, 5502.0, 5422.0, 5411.0, 5351.0, 5379.0, 5521.0, 5616.0, 5453.0, 5485.0, 5592.0, 5660.0, 5291.0, 5306.0, 5435.0, 5705.0, 5581.0, 5376.0, 5400.0, 5497.0, 5396.0, 5598.0, 5558.0, 5373.0, 5708.0, 5620.0, 5443.0, 5483.0, 5489.0, 5393.0, 5286.0, 5309.0, 5594.0, 5318.0, 5544.0, 5362.0, 5264.0, 5632.0, 5669.0, 5561.0, 5528.0, 5532.0, 5388.0, 5618.0, 5337.0, 5542.0, 5479.0, 5583.0, 5633.0, 5648.0, 5696.0, 5295.0
3	5530	9	1	333	1	5364.0, 5425.0, 5721.0, 5302.0, 5454.0, 5276.0, 5371.0, 5532.0, 5481.0, 5368.0, 5647.0, 5256.0, 5674.0, 5550.0, 5400.0, 5549.0, 5316.0, 5306.0, 5286.0, 5473.0, 5389.0, 5255.0, 5300.0, 5546.0, 5668.0, 5507.0, 5554.0, 5596.0, 5273.0, 5513.0, 5409.0, 5711.0, 5292.0, 5539.0, 5585.0, 5357.0, 5679.0, 5663.0, 5662.0, 5562.0, 5652.0, 5543.0, 5691.0, 5630.0, 5629.0, 5467.0, 5453.0, 5672.0, 5565.0, 5563.0, 5445.0, 5435.0, 5341.0, 5516.0, 5399.0, 5517.0, 5391.0, 5402.0, 5393.0, 5706.0,

						5675.0, 5529.0, 5299.0, 5551.0, 5492.0, 5619.0, 5697.0, 5643.0, 5295.0, 5452.0, 5345.0, 5438.0, 5581.0, 5429.0, 5253.0, 5633.0, 5310.0, 5380.0, 5609.0, 5460.0, 5257.0, 5463.0, 5724.0, 5324.0, 5343.0, 5365.0, 5359.0, 5709.0, 5654.0, 5636.0, 5261.0, 5461.0, 5339.0, 5522.0, 5625.0, 5540.0, 5313.0, 5524.0, 5482.0, 5278.0
4	5530	9	1	333	1	5638.0, 5434.0, 5469.0, 5370.0, 5346.0, 5588.0, 5389.0, 5686.0, 5542.0, 5593.0, 5676.0, 5698.0, 5483.0, 5348.0, 5518.0, 5571.0, 5720.0, 5543.0, 5592.0, 5357.0, 5609.0, 5448.0, 5393.0, 5310.0, 5335.0, 5536.0, 5660.0, 5479.0, 5449.0, 5552.0, 5615.0, 5331.0, 5564.0, 5607.0, 5674.0, 5295.0, 5580.0, 5642.0, 5644.0, 5406.0, 5521.0, 5701.0, 5380.0, 5340.0, 5708.0, 5598.0, 5401.0, 5517.0, 5481.0, 5267.0, 5550.0, 5489.0, 5605.0, 5312.0, 5665.0, 5289.0, 5269.0, 5450.0, 5252.0, 5573.0, 5704.0, 5373.0, 5575.0, 5396.0, 5690.0, 5471.0, 5529.0, 5250.0, 5284.0, 5649.0, 5342.0, 5367.0, 5717.0, 5711.0, 5535.0, 5351.0, 5525.0, 5258.0, 5402.0, 5653.0, 5315.0, 5347.0, 5576.0, 5399.0, 5371.0, 5455.0, 5511.0, 5581.0, 5332.0, 5620.0, 5382.0, 5323.0, 5718.0, 5470.0, 5661.0, 5488.0, 5260.0, 5341.0, 5287.0, 5446.0
5	5530	9	1	333	1	5394.0, 5481.0, 5622.0, 5305.0, 5276.0, 5644.0, 5713.0, 5486.0, 5365.0, 5670.0, 5332.0, 5598.0, 5686.0, 5290.0, 5509.0, 5684.0, 5596.0, 5658.0, 5339.0, 5441.0, 5629.0, 5467.0, 5414.0, 5375.0, 5297.0, 5577.0, 5561.0, 5459.0, 5472.0, 5711.0, 5682.0, 5719.0, 5367.0, 5602.0, 5724.0, 5554.0, 5322.0, 5438.0, 5556.0, 5259.0, 5524.0, 5632.0, 5623.0, 5628.0, 5258.0, 5437.0, 5720.0, 5463.0, 5270.0, 5282.0, 5692.0, 5292.0, 5495.0, 5266.0, 5636.0, 5312.0, 5496.0, 5543.0, 5681.0, 5410.0, 5389.0, 5633.0, 5527.0, 5592.0, 5588.0, 5567.0, 5444.0, 5275.0, 5448.0, 5289.0, 5330.0, 5626.0, 5409.0, 5519.0, 5321.0, 5401.0, 5539.0, 5646.0, 5334.0, 5521.0, 5433.0, 5704.0, 5379.0, 5518.0, 5317.0, 5578.0, 5468.0, 5640.0, 5393.0, 5701.0, 5268.0, 5416.0, 5480.0, 5392.0, 5501.0, 5523.0, 5426.0, 5458.0, 5301.0, 5537.0
6	5530	9	1	333	1	5425.0, 5395.0, 5428.0, 5263.0, 5314.0, 5612.0, 5499.0, 5505.0, 5251.0, 5435.0, 5486.0, 5534.0, 5275.0, 5284.0, 5474.0, 5647.0, 5658.0, 5532.0, 5270.0, 5301.0, 5391.0, 5521.0, 5715.0, 5348.0, 5324.0, 5540.0, 5553.0, 5454.0, 5352.0, 5300.0, 5309.0, 5668.0, 5576.0, 5306.0, 5684.0, 5409.0, 5392.0, 5560.0, 5420.0, 5632.0, 5459.0, 5331.0, 5302.0, 5374.0, 5341.0, 5692.0, 5279.0, 5267.0, 5299.0, 5482.0, 5581.0, 5452.0, 5372.0, 5343.0, 5631.0, 5565.0, 5487.0, 5388.0, 5256.0, 5308.0,

						5518.0, 5274.0, 5278.0, 5396.0, 5266.0, 5361.0, 5456.0, 5524.0, 5329.0, 5601.0, 5596.0, 5633.0, 5424.0, 5687.0, 5427.0, 5457.0, 5722.0, 5556.0, 5321.0, 5572.0, 5657.0, 5501.0, 5694.0, 5257.0, 5497.0, 5564.0, 5517.0, 5385.0, 5644.0, 5252.0, 5604.0, 5465.0, 5438.0, 5373.0, 5529.0, 5470.0, 5475.0, 5611.0, 5591.0, 5370.0
7	5530	9	1	333	1	5518.0, 5348.0, 5714.0, 5398.0, 5484.0, 5703.0, 5417.0, 5401.0, 5510.0, 5499.0, 5589.0, 5280.0, 5720.0, 5468.0, 5621.0, 5540.0, 5636.0, 5606.0, 5431.0, 5253.0, 5298.0, 5683.0, 5719.0, 5570.0, 5522.0, 5491.0, 5423.0, 5384.0, 5300.0, 5393.0, 5666.0, 5700.0, 5691.0, 5478.0, 5679.0, 5399.0, 5704.0, 5272.0, 5521.0, 5343.0, 5269.0, 5362.0, 5517.0, 5360.0, 5672.0, 5489.0, 5646.0, 5338.0, 5602.0, 5260.0, 5486.0, 5676.0, 5470.0, 5653.0, 5376.0, 5569.0, 5660.0, 5718.0, 5504.0, 5678.0, 5723.0, 5297.0, 5675.0, 5716.0, 5287.0, 5619.0, 5419.0, 5598.0, 5422.0, 5532.0, 5394.0, 5527.0, 5588.0, 5674.0, 5474.0, 5456.0, 5303.0, 5509.0, 5573.0, 5252.0, 5339.0, 5581.0, 5275.0, 5604.0, 5483.0, 5425.0, 5695.0, 5655.0, 5487.0, 5530.0, 5406.0, 5523.0, 5258.0, 5266.0, 5396.0, 5650.0, 5382.0, 5446.0, 5680.0, 5429.0
8	5530	9	1	333	1	5710.0, 5500.0, 5624.0, 5720.0, 5336.0, 5700.0, 5581.0, 5253.0, 5364.0, 5487.0, 5290.0, 5602.0, 5605.0, 5664.0, 5358.0, 5263.0, 5288.0, 5585.0, 5520.0, 5376.0, 5297.0, 5326.0, 5552.0, 5645.0, 5398.0, 5431.0, 5392.0, 5545.0, 5333.0, 5337.0, 5597.0, 5662.0, 5517.0, 5320.0, 5339.0, 5641.0, 5393.0, 5572.0, 5492.0, 5610.0, 5296.0, 5623.0, 5491.0, 5503.0, 5640.0, 5631.0, 5422.0, 5437.0, 5449.0, 5414.0, 5646.0, 5344.0, 5588.0, 5531.0, 5714.0, 5512.0, 5653.0, 5399.0, 5315.0, 5439.0, 5497.0, 5421.0, 5636.0, 5696.0, 5539.0, 5639.0, 5521.0, 5542.0, 5350.0, 5598.0, 5384.0, 5334.0, 5659.0, 5261.0, 5373.0, 5608.0, 5372.0, 5367.0, 5593.0, 5276.0, 5319.0, 5423.0, 5680.0, 5614.0, 5264.0, 5298.0, 5652.0, 5406.0, 5583.0, 5656.0, 5661.0, 5648.0, 5289.0, 5462.0, 5499.0, 5556.0, 5340.0, 5489.0, 5401.0, 5533.0
9	5530	9	1	333	1	5600.0, 5640.0, 5364.0, 5513.0, 5590.0, 5410.0, 5626.0, 5637.0, 5432.0, 5403.0, 5660.0, 5370.0, 5271.0, 5344.0, 5558.0, 5289.0, 5273.0, 5554.0, 5703.0, 5639.0, 5310.0, 5314.0, 5473.0, 5467.0, 5638.0, 5668.0, 5568.0, 5596.0, 5692.0, 5548.0, 5318.0, 5307.0, 5341.0, 5521.0, 5440.0, 5659.0, 5340.0, 5399.0, 5331.0, 5708.0, 5479.0, 5395.0, 5371.0, 5682.0, 5343.0, 5367.0, 5345.0, 5519.0, 5412.0, 5276.0, 5261.0, 5650.0, 5347.0, 5632.0, 5704.0, 5712.0, 5300.0, 5496.0, 5607.0, 5633.0,

						5413.0, 5705.0, 5338.0, 5309.0, 5274.0, 5258.0, 5387.0, 5396.0, 5452.0, 5306.0, 5322.0, 5401.0, 5615.0, 5498.0, 5721.0, 5302.0, 5613.0, 5535.0, 5428.0, 5562.0, 5624.0, 5690.0, 5623.0, 5355.0, 5686.0, 5631.0, 5551.0, 5427.0, 5301.0, 5414.0, 5657.0, 5391.0, 5466.0, 5524.0, 5688.0, 5453.0, 5405.0, 5563.0, 5312.0, 5604.0
10	5530	9	1	333	1	5373.0, 5563.0, 5536.0, 5535.0, 5464.0, 5520.0, 5433.0, 5284.0, 5661.0, 5400.0, 5519.0, 5571.0, 5332.0, 5311.0, 5270.0, 5470.0, 5447.0, 5716.0, 5412.0, 5418.0, 5299.0, 5266.0, 5558.0, 5355.0, 5530.0, 5556.0, 5699.0, 5682.0, 5533.0, 5518.0, 5466.0, 5580.0, 5610.0, 5507.0, 5624.0, 5534.0, 5281.0, 5539.0, 5372.0, 5547.0, 5391.0, 5574.0, 5525.0, 5566.0, 5353.0, 5611.0, 5561.0, 5472.0, 5671.0, 5508.0, 5708.0, 5359.0, 5550.0, 5382.0, 5393.0, 5456.0, 5387.0, 5302.0, 5306.0, 5286.0, 5492.0, 5262.0, 5354.0, 5383.0, 5413.0, 5324.0, 5297.0, 5573.0, 5437.0, 5685.0, 5712.0, 5629.0, 5522.0, 5494.0, 5419.0, 5468.0, 5365.0, 5509.0, 5480.0, 5253.0, 5684.0, 5371.0, 5710.0, 5594.0, 5422.0, 5475.0, 5609.0, 5489.0, 5321.0, 5410.0, 5389.0, 5702.0, 5394.0, 5272.0, 5500.0, 5471.0, 5476.0, 5279.0, 5645.0, 5555.0
11	5530	9	1	333	1	5281.0, 5400.0, 5419.0, 5676.0, 5631.0, 5496.0, 5487.0, 5541.0, 5596.0, 5374.0, 5493.0, 5252.0, 5349.0, 5441.0, 5253.0, 5351.0, 5468.0, 5344.0, 5476.0, 5647.0, 5437.0, 5393.0, 5388.0, 5460.0, 5312.0, 5486.0, 5316.0, 5722.0, 5591.0, 5563.0, 5536.0, 5360.0, 5318.0, 5641.0, 5298.0, 5506.0, 5378.0, 5311.0, 5412.0, 5368.0, 5585.0, 5518.0, 5421.0, 5320.0, 5545.0, 5515.0, 5602.0, 5505.0, 5661.0, 5552.0, 5457.0, 5445.0, 5491.0, 5282.0, 5663.0, 5662.0, 5399.0, 5692.0, 5600.0, 5490.0, 5609.0, 5679.0, 5386.0, 5317.0, 5581.0, 5650.0, 5644.0, 5328.0, 5691.0, 5534.0, 5625.0, 5535.0, 5560.0, 5391.0, 5283.0, 5326.0, 5355.0, 5363.0, 5547.0, 5672.0, 5499.0, 5686.0, 5696.0, 5537.0, 5699.0, 5539.0, 5673.0, 5267.0, 5430.0, 5693.0, 5660.0, 5425.0, 5694.0, 5482.0, 5619.0, 5570.0, 5327.0, 5522.0, 5532.0, 5645.0
12	5530	9	1	333	1	5277.0, 5712.0, 5619.0, 5661.0, 5615.0, 5700.0, 5554.0, 5500.0, 5256.0, 5610.0, 5489.0, 5627.0, 5443.0, 5464.0, 5525.0, 5349.0, 5573.0, 5591.0, 5496.0, 5563.0, 5693.0, 5522.0, 5366.0, 5376.0, 5279.0, 5620.0, 5285.0, 5372.0, 5542.0, 5701.0, 5440.0, 5315.0, 5577.0, 5466.0, 5394.0, 5716.0, 5386.0, 5389.0, 5348.0, 5588.0, 5395.0, 5514.0, 5713.0, 5561.0, 5468.0, 5335.0, 5599.0, 5493.0, 5478.0, 5452.0, 5660.0, 5289.0, 5607.0, 5547.0, 5293.0, 5465.0, 5616.0, 5626.0, 5604.0, 5417.0,

						5333.0, 5411.0, 5409.0, 5605.0, 5320.0, 5445.0, 5699.0, 5513.0, 5570.0, 5254.0, 5390.0, 5339.0, 5711.0, 5310.0, 5490.0, 5509.0, 5288.0, 5360.0, 5374.0, 5622.0, 5306.0, 5325.0, 5455.0, 5524.0, 5715.0, 5359.0, 5613.0, 5373.0, 5419.0, 5286.0, 5474.0, 5297.0, 5370.0, 5421.0, 5551.0, 5400.0, 5597.0, 5313.0, 5362.0, 5302.0
13	5530	9	1	333	1	5657.0, 5506.0, 5579.0, 5559.0, 5623.0, 5295.0, 5676.0, 5706.0, 5262.0, 5662.0, 5457.0, 5292.0, 5536.0, 5599.0, 5467.0, 5419.0, 5502.0, 5250.0, 5383.0, 5297.0, 5518.0, 5289.0, 5511.0, 5600.0, 5422.0, 5318.0, 5464.0, 5362.0, 5340.0, 5493.0, 5438.0, 5477.0, 5277.0, 5371.0, 5584.0, 5365.0, 5421.0, 5666.0, 5510.0, 5641.0, 5395.0, 5606.0, 5270.0, 5407.0, 5416.0, 5376.0, 5473.0, 5556.0, 5461.0, 5337.0, 5346.0, 5430.0, 5456.0, 5307.0, 5481.0, 5475.0, 5619.0, 5658.0, 5678.0, 5495.0, 5562.0, 5470.0, 5537.0, 5478.0, 5345.0, 5394.0, 5617.0, 5618.0, 5442.0, 5432.0, 5397.0, 5282.0, 5254.0, 5704.0, 5452.0, 5661.0, 5393.0, 5388.0, 5522.0, 5353.0, 5403.0, 5531.0, 5327.0, 5577.0, 5668.0, 5548.0, 5532.0, 5687.0, 5437.0, 5621.0, 5459.0, 5547.0, 5447.0, 5587.0, 5571.0, 5370.0, 5501.0, 5675.0, 5398.0, 5312.0
14	5530	9	1	333	1	5396.0, 5574.0, 5298.0, 5255.0, 5661.0, 5253.0, 5595.0, 5620.0, 5643.0, 5462.0, 5664.0, 5572.0, 5704.0, 5324.0, 5345.0, 5541.0, 5422.0, 5504.0, 5403.0, 5628.0, 5599.0, 5327.0, 5335.0, 5542.0, 5669.0, 5655.0, 5354.0, 5701.0, 5604.0, 5378.0, 5469.0, 5506.0, 5500.0, 5590.0, 5496.0, 5411.0, 5564.0, 5295.0, 5371.0, 5429.0, 5601.0, 5252.0, 5719.0, 5616.0, 5464.0, 5320.0, 5397.0, 5369.0, 5629.0, 5331.0, 5607.0, 5401.0, 5626.0, 5457.0, 5552.0, 5490.0, 5437.0, 5680.0, 5602.0, 5281.0, 5455.0, 5362.0, 5473.0, 5412.0, 5346.0, 5621.0, 5717.0, 5615.0, 5479.0, 5428.0, 5321.0, 5390.0, 5557.0, 5454.0, 5427.0, 5337.0, 5682.0, 5358.0, 5406.0, 5579.0, 5663.0, 5310.0, 5544.0, 5373.0, 5484.0, 5353.0, 5582.0, 5683.0, 5276.0, 5365.0, 5336.0, 5394.0, 5273.0, 5597.0, 5539.0, 5478.0, 5283.0, 5304.0, 5524.0, 5580.0
15	5530	9	1	333	1	5618.0, 5476.0, 5674.0, 5494.0, 5339.0, 5557.0, 5574.0, 5636.0, 5273.0, 5403.0, 5371.0, 5257.0, 5381.0, 5530.0, 5272.0, 5271.0, 5626.0, 5454.0, 5267.0, 5651.0, 5348.0, 5263.0, 5301.0, 5561.0, 5385.0, 5571.0, 5655.0, 5607.0, 5689.0, 5261.0, 5705.0, 5479.0, 5634.0, 5402.0, 5331.0, 5347.0, 5720.0, 5451.0, 5615.0, 5368.0, 5367.0, 5549.0, 5641.0, 5306.0, 5296.0, 5422.0, 5380.0, 5478.0, 5303.0, 5580.0, 5302.0, 5617.0, 5382.0, 5562.0, 5678.0, 5648.0, 5281.0, 5488.0, 5404.0, 5688.0,

						5507.0, 5679.0, 5683.0, 5599.0, 5563.0, 5406.0, 5638.0, 5374.0, 5258.0, 5262.0, 5633.0, 5511.0, 5405.0, 5466.0, 5605.0, 5642.0, 5492.0, 5614.0, 5472.0, 5394.0, 5250.0, 5701.0, 5508.0, 5611.0, 5567.0, 5360.0, 5474.0, 5429.0, 5646.0, 5529.0, 5342.0, 5430.0, 5630.0, 5619.0, 5673.0, 5723.0, 5315.0, 5252.0, 5542.0, 5496.0
16	5530	9	1	333	1	5503.0, 5314.0, 5330.0, 5448.0, 5463.0, 5481.0, 5402.0, 5340.0, 5538.0, 5263.0, 5604.0, 5305.0, 5321.0, 5546.0, 5500.0, 5677.0, 5588.0, 5528.0, 5529.0, 5581.0, 5559.0, 5488.0, 5563.0, 5409.0, 5539.0, 5336.0, 5469.0, 5625.0, 5513.0, 5432.0, 5316.0, 5700.0, 5310.0, 5446.0, 5415.0, 5416.0, 5584.0, 5561.0, 5475.0, 5487.0, 5269.0, 5312.0, 5653.0, 5587.0, 5580.0, 5341.0, 5578.0, 5671.0, 5363.0, 5575.0, 5555.0, 5703.0, 5691.0, 5623.0, 5473.0, 5567.0, 5465.0, 5258.0, 5694.0, 5679.0, 5637.0, 5565.0, 5309.0, 5436.0, 5289.0, 5573.0, 5351.0, 5594.0, 5327.0, 5658.0, 5493.0, 5641.0, 5492.0, 5549.0, 5283.0, 5504.0, 5382.0, 5596.0, 5619.0, 5255.0, 5466.0, 5606.0, 5251.0, 5543.0, 5355.0, 5443.0, 5366.0, 5609.0, 5648.0, 5536.0, 5530.0, 5396.0, 5479.0, 5313.0, 5287.0, 5688.0, 5498.0, 5338.0, 5663.0, 5371.0
17	5530	9	1	333	1	5558.0, 5664.0, 5609.0, 5360.0, 5326.0, 5704.0, 5616.0, 5263.0, 5418.0, 5606.0, 5636.0, 5615.0, 5396.0, 5414.0, 5513.0, 5493.0, 5339.0, 5613.0, 5313.0, 5345.0, 5349.0, 5357.0, 5584.0, 5565.0, 5284.0, 5411.0, 5329.0, 5467.0, 5665.0, 5611.0, 5581.0, 5654.0, 5488.0, 5298.0, 5673.0, 5538.0, 5318.0, 5438.0, 5575.0, 5564.0, 5380.0, 5328.0, 5415.0, 5588.0, 5291.0, 5659.0, 5475.0, 5670.0, 5531.0, 5392.0, 5393.0, 5560.0, 5398.0, 5527.0, 5568.0, 5399.0, 5491.0, 5341.0, 5460.0, 5446.0, 5492.0, 5631.0, 5628.0, 5403.0, 5507.0, 5549.0, 5406.0, 5604.0, 5296.0, 5262.0, 5441.0, 5274.0, 5321.0, 5642.0, 5281.0, 5662.0, 5320.0, 5479.0, 5546.0, 5648.0, 5711.0, 5452.0, 5336.0, 5579.0, 5374.0, 5348.0, 5375.0, 5570.0, 5481.0, 5655.0, 5370.0, 5251.0, 5638.0, 5287.0, 5359.0, 5402.0, 5447.0, 5625.0, 5694.0, 5457.0
18	5530	9	1	333	1	5681.0, 5596.0, 5364.0, 5279.0, 5576.0, 5363.0, 5268.0, 5687.0, 5629.0, 5368.0, 5641.0, 5376.0, 5401.0, 5706.0, 5539.0, 5545.0, 5488.0, 5532.0, 5349.0, 5506.0, 5436.0, 5560.0, 5390.0, 5657.0, 5330.0, 5517.0, 5697.0, 5579.0, 5696.0, 5519.0, 5695.0, 5367.0, 5254.0, 5654.0, 5393.0, 5252.0, 5623.0, 5389.0, 5353.0, 5286.0, 5284.0, 5396.0, 5489.0, 5662.0, 5549.0, 5473.0, 5683.0, 5649.0, 5422.0, 5534.0, 5365.0, 5310.0, 5571.0, 5259.0, 5460.0, 5407.0, 5253.0, 5457.0, 5258.0, 5312.0,

						5325.0, 5301.0, 5625.0, 5490.0, 5656.0, 5449.0, 5432.0, 5513.0, 5674.0, 5552.0, 5382.0, 5483.0, 5398.0, 5510.0, 5698.0, 5497.0, 5468.0, 5498.0, 5411.0, 5581.0, 5405.0, 5653.0, 5594.0, 5409.0, 5530.0, 5624.0, 5387.0, 5338.0, 5306.0, 5634.0, 5645.0, 5333.0, 5271.0, 5452.0, 5665.0, 5612.0, 5264.0, 5537.0, 5630.0, 5480.0
19	5530	9	1	333	1	5483.0, 5384.0, 5271.0, 5348.0, 5263.0, 5492.0, 5650.0, 5685.0, 5402.0, 5676.0, 5459.0, 5262.0, 5419.0, 5689.0, 5461.0, 5586.0, 5288.0, 5448.0, 5497.0, 5518.0, 5418.0, 5558.0, 5474.0, 5567.0, 5352.0, 5605.0, 5630.0, 5382.0, 5357.0, 5621.0, 5454.0, 5583.0, 5339.0, 5527.0, 5453.0, 5664.0, 5648.0, 5672.0, 5717.0, 5387.0, 5646.0, 5279.0, 5331.0, 5710.0, 5328.0, 5301.0, 5657.0, 5716.0, 5435.0, 5568.0, 5696.0, 5532.0, 5423.0, 5601.0, 5681.0, 5441.0, 5417.0, 5305.0, 5538.0, 5429.0, 5255.0, 5660.0, 5267.0, 5372.0, 5638.0, 5542.0, 5544.0, 5465.0, 5596.0, 5374.0, 5702.0, 5373.0, 5610.0, 5287.0, 5413.0, 5580.0, 5393.0, 5526.0, 5329.0, 5420.0, 5679.0, 5635.0, 5641.0, 5480.0, 5291.0, 5359.0, 5690.0, 5354.0, 5254.0, 5628.0, 5436.0, 5513.0, 5718.0, 5639.0, 5444.0, 5289.0, 5394.0, 5484.0, 5306.0, 5450.0
20	5530	9	1	333	1	5329.0, 5558.0, 5630.0, 5289.0, 5718.0, 5541.0, 5284.0, 5511.0, 5302.0, 5258.0, 5648.0, 5306.0, 5395.0, 5283.0, 5670.0, 5358.0, 5442.0, 5551.0, 5279.0, 5599.0, 5644.0, 5510.0, 5406.0, 5482.0, 5556.0, 5407.0, 5642.0, 5608.0, 5478.0, 5394.0, 5490.0, 5654.0, 5344.0, 5445.0, 5637.0, 5701.0, 5625.0, 5332.0, 5270.0, 5513.0, 5375.0, 5699.0, 5431.0, 5698.0, 5433.0, 5537.0, 5386.0, 5523.0, 5573.0, 5393.0, 5324.0, 5379.0, 5346.0, 5410.0, 5315.0, 5327.0, 5388.0, 5343.0, 5425.0, 5487.0, 5564.0, 5305.0, 5505.0, 5314.0, 5544.0, 5594.0, 5392.0, 5596.0, 5578.0, 5568.0, 5470.0, 5691.0, 5557.0, 5273.0, 5290.0, 5378.0, 5292.0, 5434.0, 5561.0, 5600.0, 5430.0, 5538.0, 5418.0, 5707.0, 5518.0, 5498.0, 5402.0, 5631.0, 5334.0, 5459.0, 5359.0, 5685.0, 5720.0, 5567.0, 5366.0, 5506.0, 5360.0, 5683.0, 5420.0, 5311.0
21	5530	9	1	333	1	5450.0, 5557.0, 5582.0, 5697.0, 5526.0, 5333.0, 5719.0, 5465.0, 5433.0, 5716.0, 5321.0, 5327.0, 5335.0, 5521.0, 5603.0, 5411.0, 5298.0, 5384.0, 5452.0, 5595.0, 5292.0, 5337.0, 5569.0, 5376.0, 5583.0, 5407.0, 5671.0, 5714.0, 5322.0, 5717.0, 5705.0, 5534.0, 5597.0, 5436.0, 5723.0, 5398.0, 5669.0, 5655.0, 5314.0, 5460.0, 5255.0, 5464.0, 5488.0, 5542.0, 5522.0, 5408.0, 5466.0, 5700.0, 5368.0, 5344.0, 5451.0, 5253.0, 5489.0, 5684.0, 5289.0, 5621.0, 5500.0, 5632.0, 5304.0, 5698.0,

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