FCC PART 15.407

DYNAMIC FREQUENCY SELECTION

TEST REPORT

For

SKSpruce Technologies Co., Ltd.

A1, Tianfu Software Park, 1129 Century City Road, Hi-tech Zone, Chengdu, Sichuan, China

Test Model: WIA3300-20
FCC ID: 2AHKT-WIA3300-20

Report Type:	**Product Name:**
Original Report	Indoor Access Point

Report Number:	RSC170727050-00
Report Date:	2017-10-09
Reviewed By:	Jerry Zhang EMC Manager
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ***SKSpruce Technologies Co., Ltd.***'s product, model number: ***WIA3300-20 (FCC ID: 2AHKT-WIA3300-20)*** (*or* "EUT") in this report is a ***Indoor Access Point****. The highest frequency used in the device is 5825 MHz.*

Mechanical Description of EUT

The EUT was measured approximately: 200mm(L) * 200mm(W) * 45mm(H)

Rated input voltage DC 12V from Adapter or DC 48V from POE.

POE information
Manufacturer: SKSpruce Technologies Co., Ltd.
Model: PSE802G
Input: 100-240V/AC; 50/60Hz
Output: DC 48-56V

**All measurement and test data in this report was gathered from final production sample, serial number: 170718001/01 (assigned by the BACL). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2017-07-07, and EUT conformed to test requirement.*

Objective

This report is prepared on behalf of ***SKSpruce Technologies Co., Ltd.*** in accordance with Part 2-Subpart J, Part 15-Subparts E of the Federal Communications Commission's rules.

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

Related Submittal(s)/Grant(s)

No related submittal/grant.

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. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

Bay Area Compliance Laboratories Corp. (Dongguan) has been accredited to ISO 17025 by CNAS(Lab code: L5662). And accredited to ISO 17025 by NVLAP(Test Laboratory Accreditation Certificate Number 500069-0), the FCC Designation No. CN5002 under the KDB 974614 D01.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Bay Area Compliance Laboratories Corp. (Dongguan) was registered with ISED Canada under ISED Canada Registration Number 3062D.

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.

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), 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)

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	Roundup $\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{PRI_{\mu sec}}\right)\right\}$	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

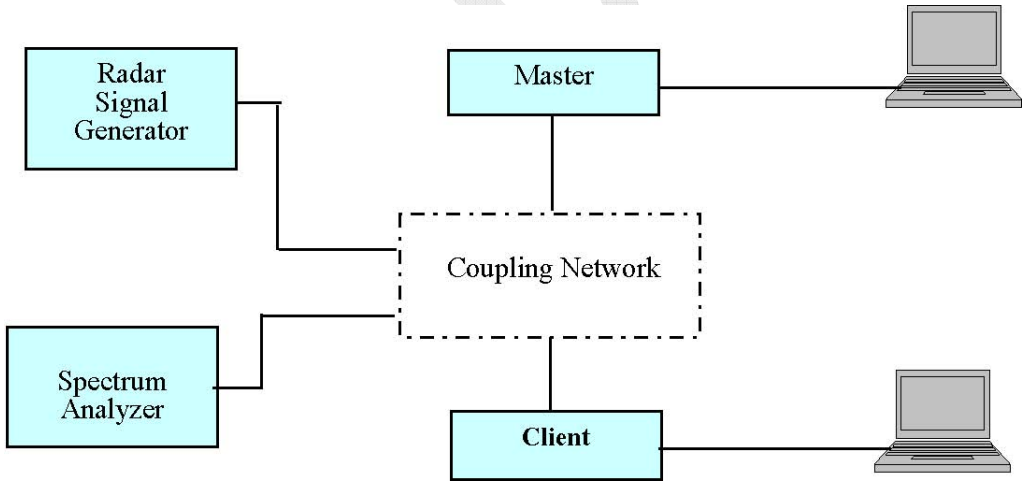
Table 7 – Frequency Hopping Radar Test Waveform

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

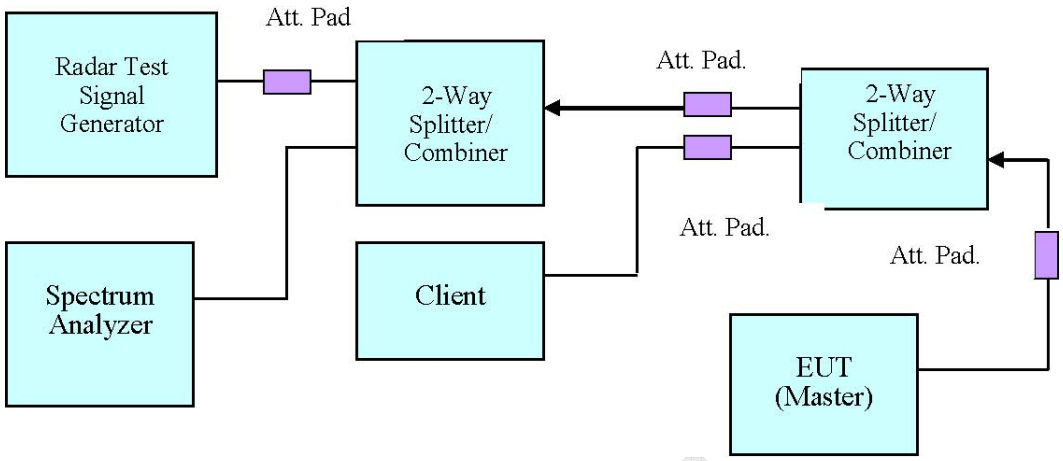
DFS Measurement System

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

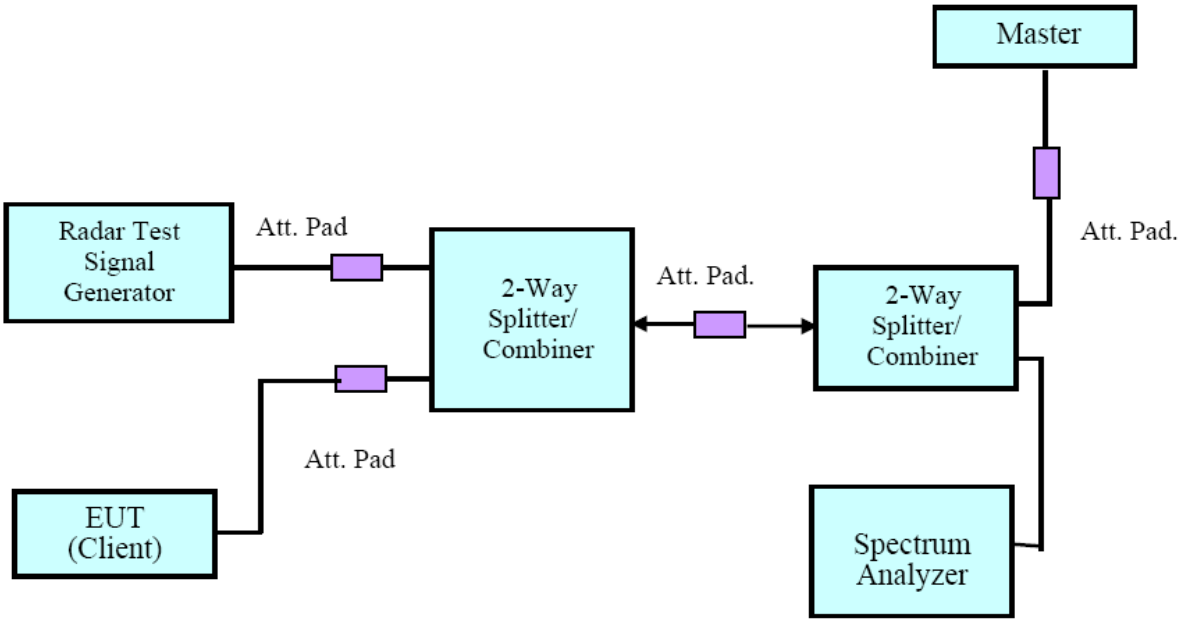
System Block Diagram



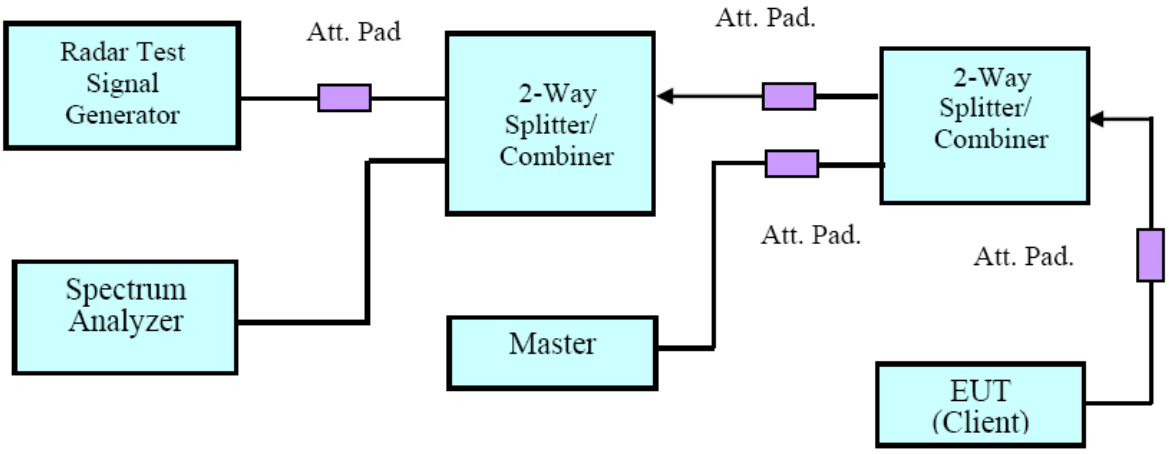
Conducted Method



Setup for Master with injection at the Master

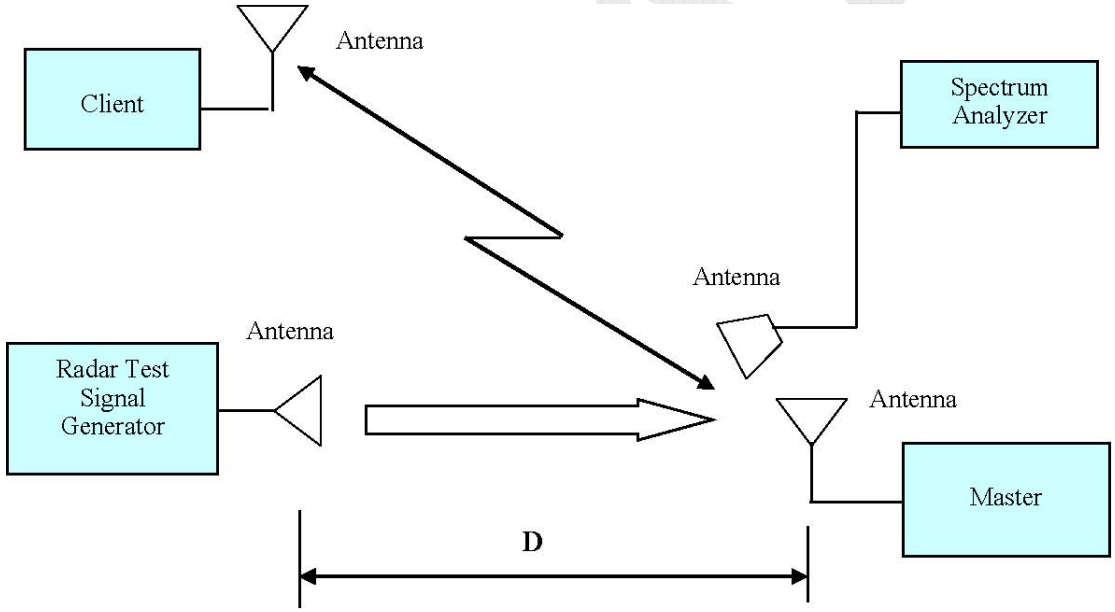


Setup for Client with injection at the Master



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 20dBm, antenna gain is 3dBi, the Maximum E.I.R.P= 20+3=23dBm, Therefore the required interference threshold level is -64 dBm.

The calibrated radiated DFS detection threshold level was set to -64 dBm.

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
Agilent	Spectrum Analyzer	E4440A	SG43360054	2016-12-08	2017-12-08
Ditorn	Splitter/Combiner	D3C4080	SN2244	N/A	N/A
TDK RF	Horn Antenna	HRN-0118	130 084	2016-01-05	2019-01-04
ETS LINDGREN	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04

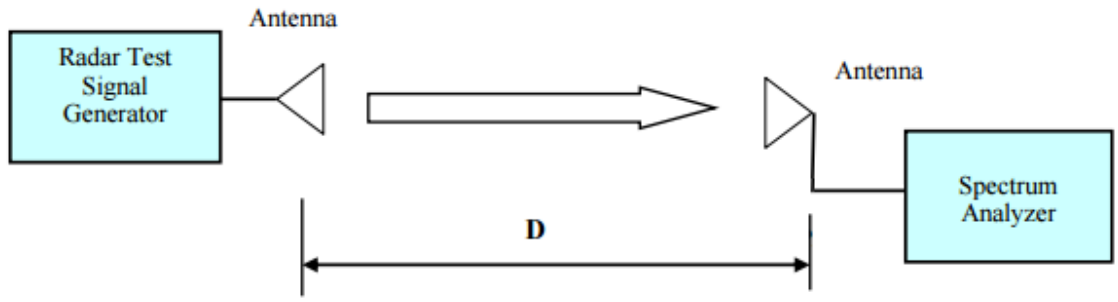
*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Environmental Conditions

Temperature:	24.6 ~ 29.7 °C
Relative Humidity:	39 ~ 63 %
ATM Pressure:	98.9 ~ 100.8 kPa

The testing was performed by Emily Wang from 2017-08-10 to 2017-10-09

Radar Waveform Calibration

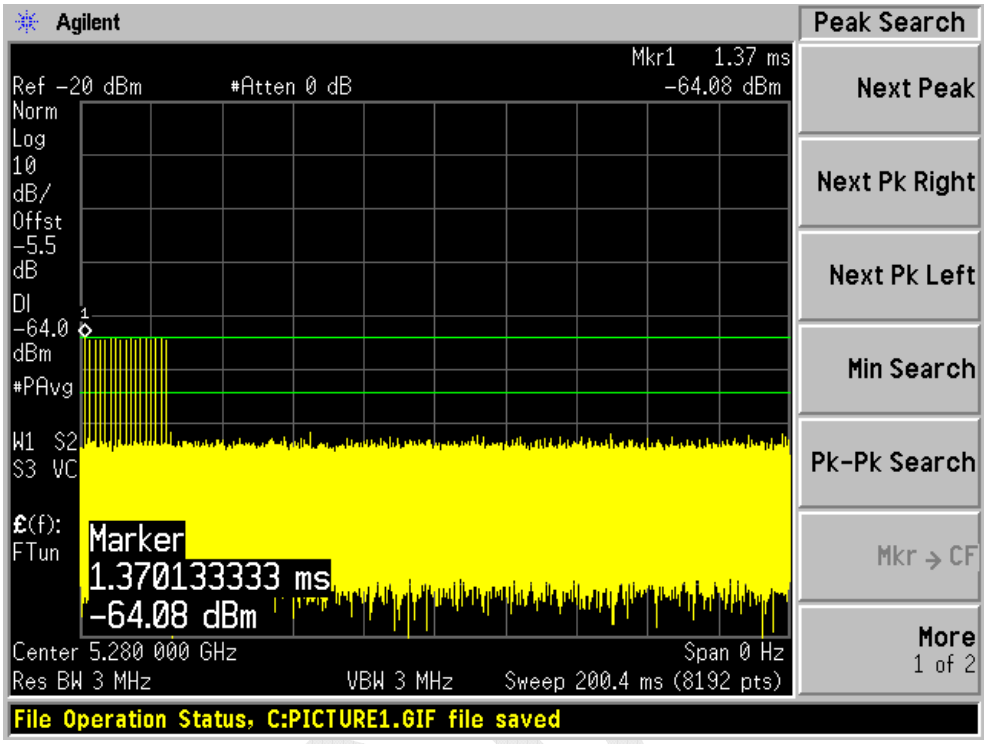


Radiated Calibration Setup Block Diagram

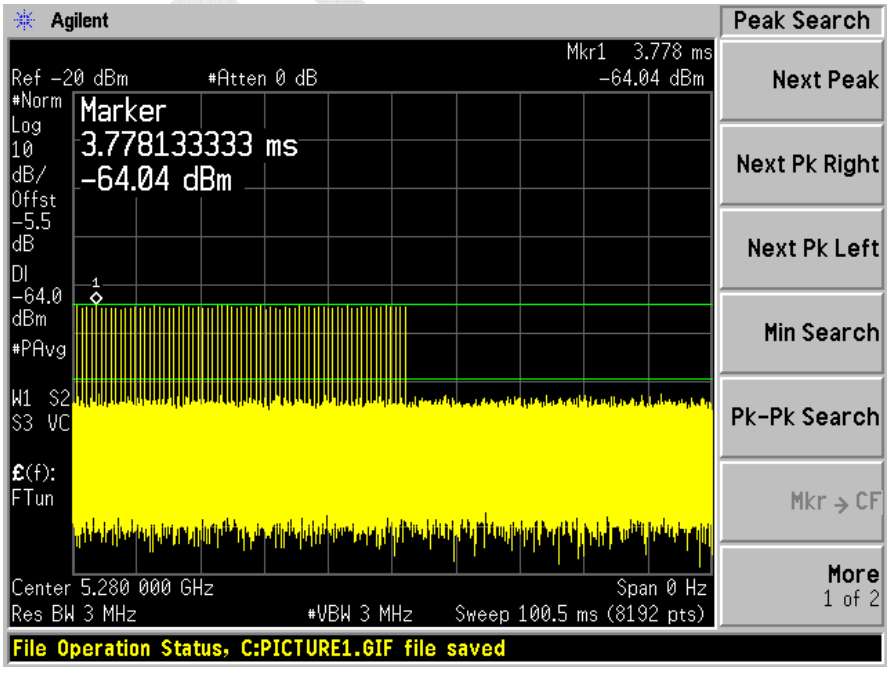
Plots of Radar Waveforms

5280 MHz:

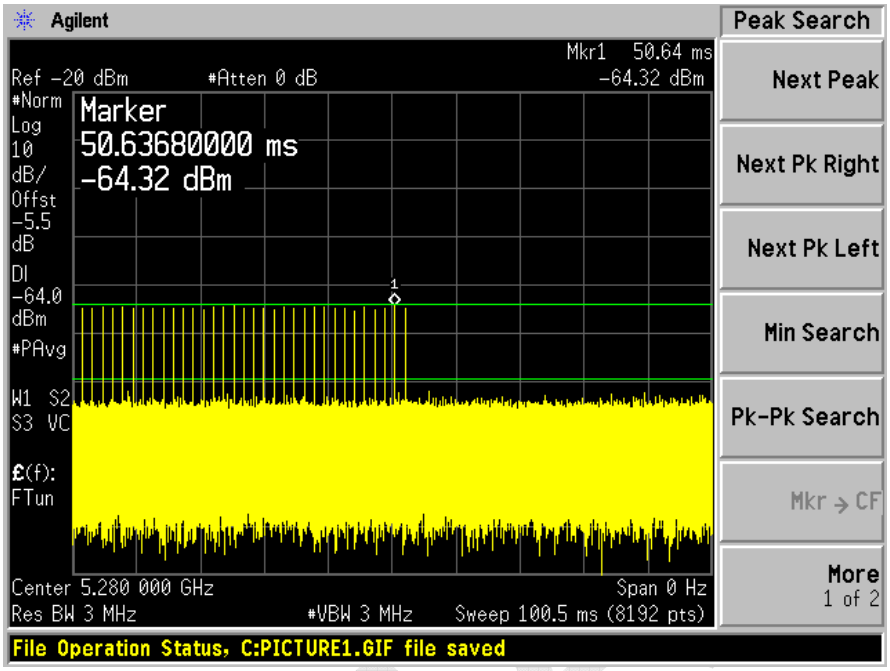
Radar Type 0



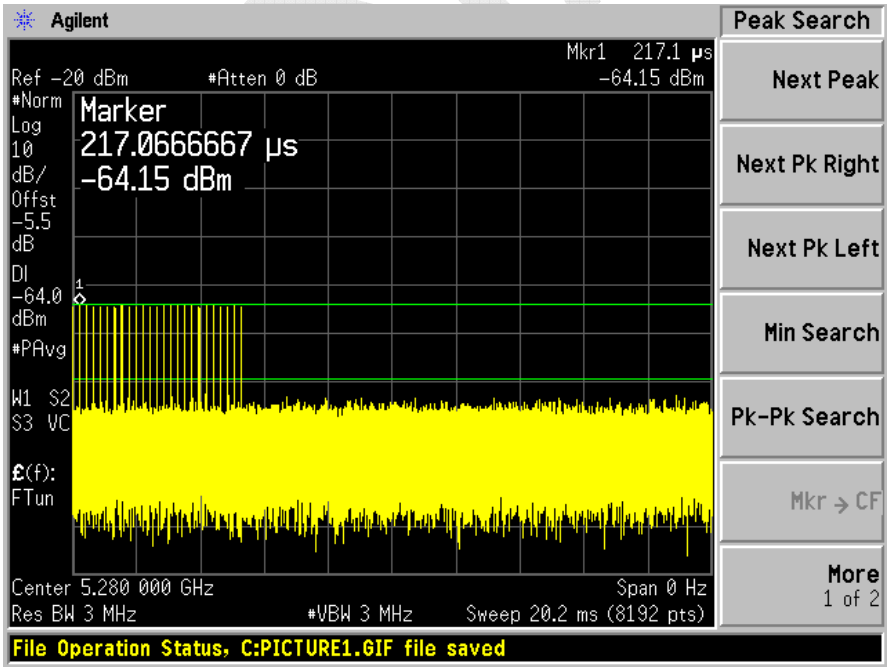
Radar Type 1A



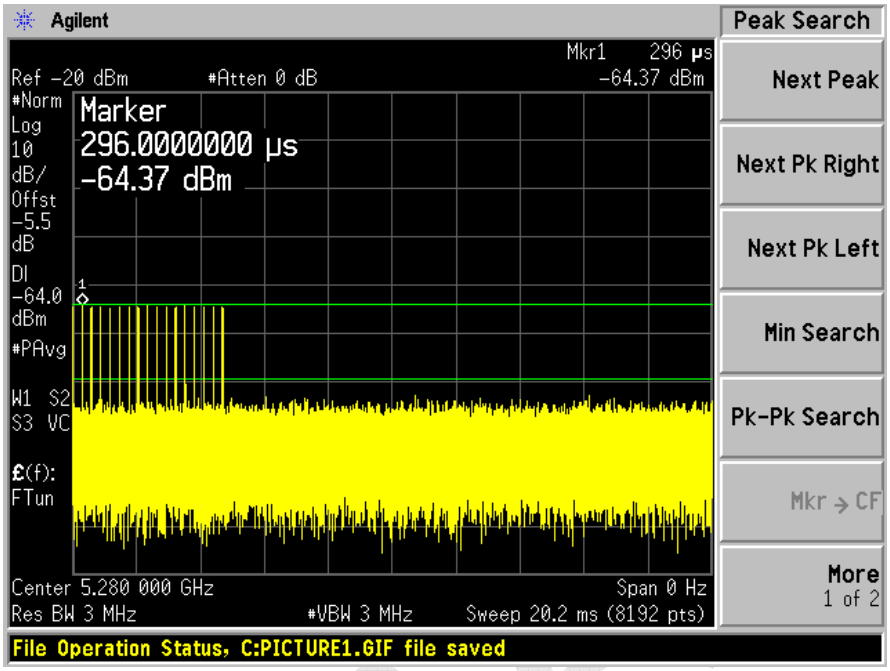
Radar Type 1B



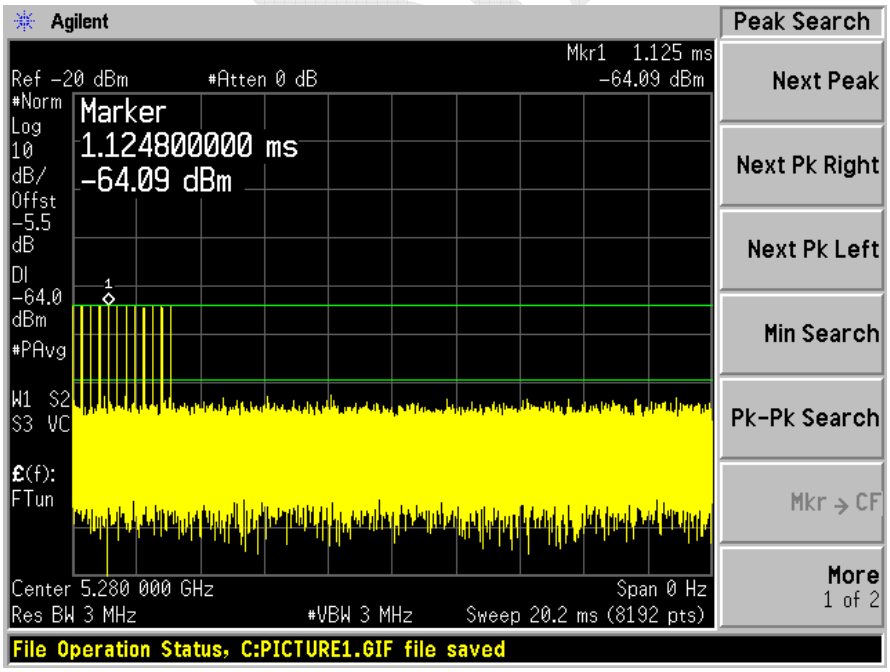
Radar Type 2



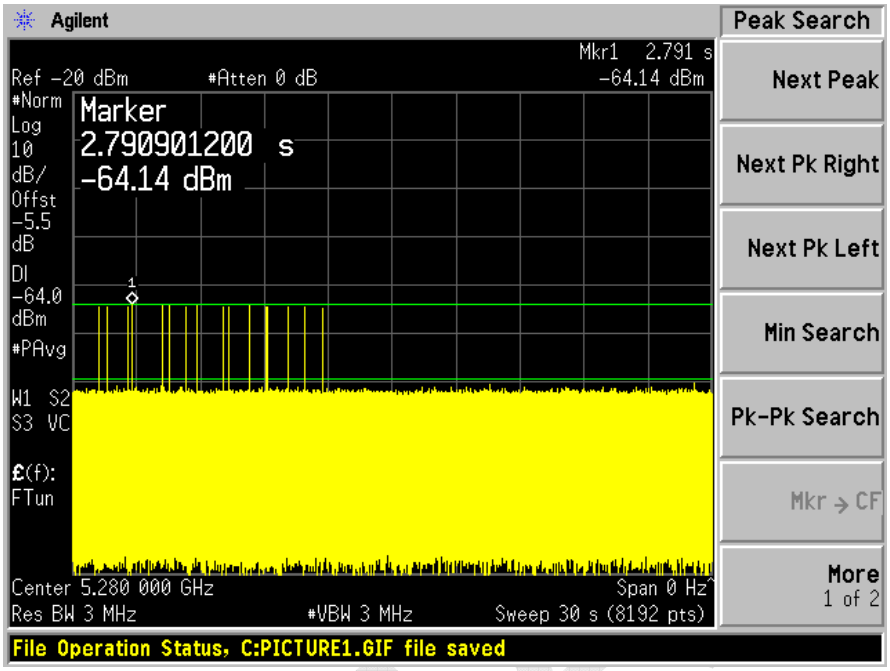
Radar Type 3



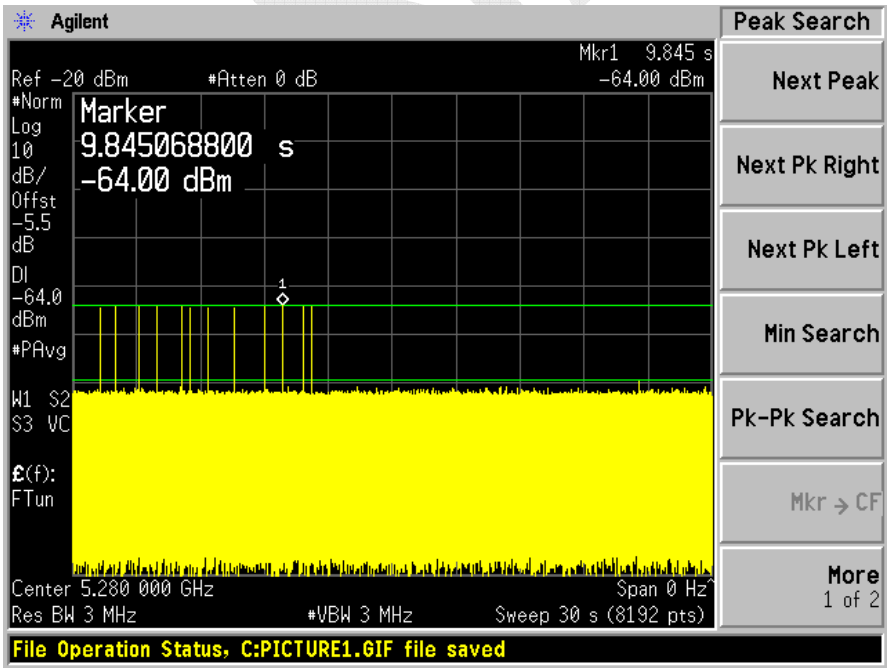
Radar Type 4



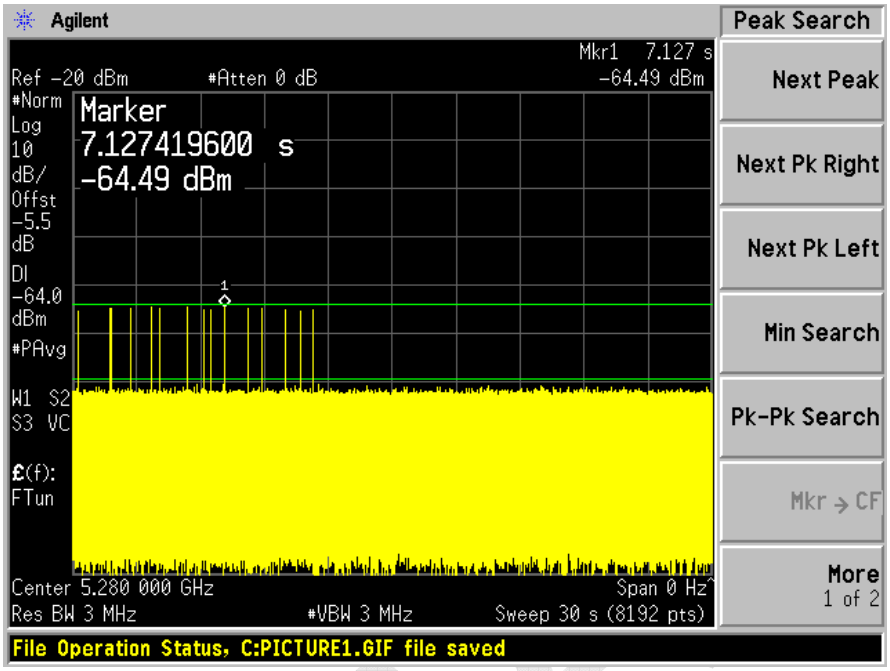
Radar Type 5 Case1



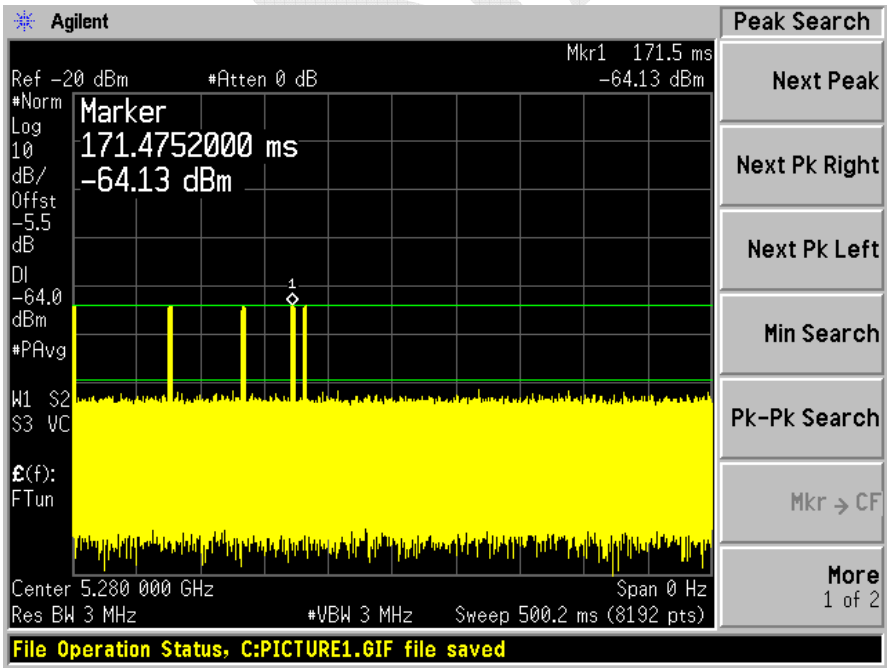
Radar Type 5 Case2



Radar Type 5 Case3

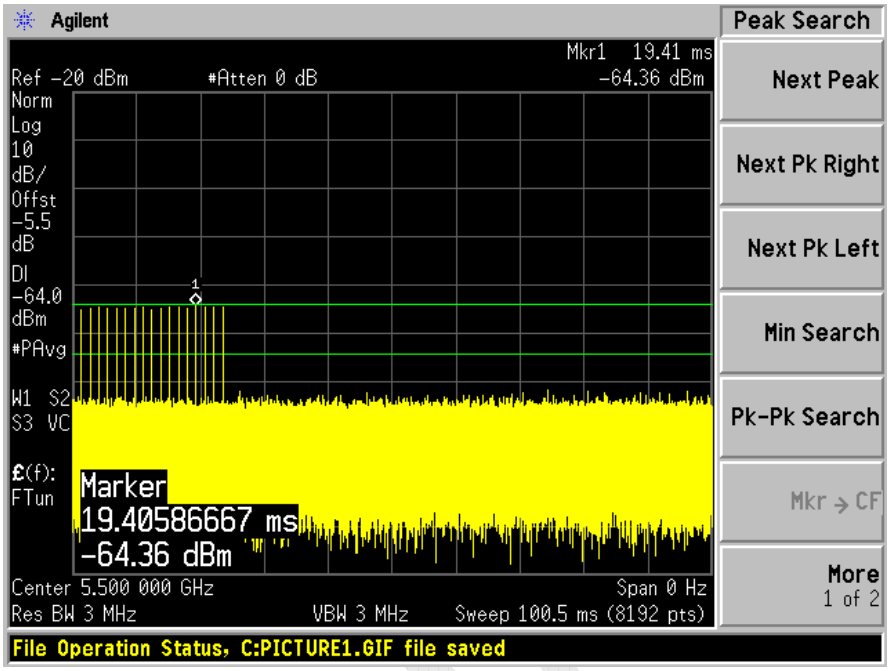


Radar Type 6

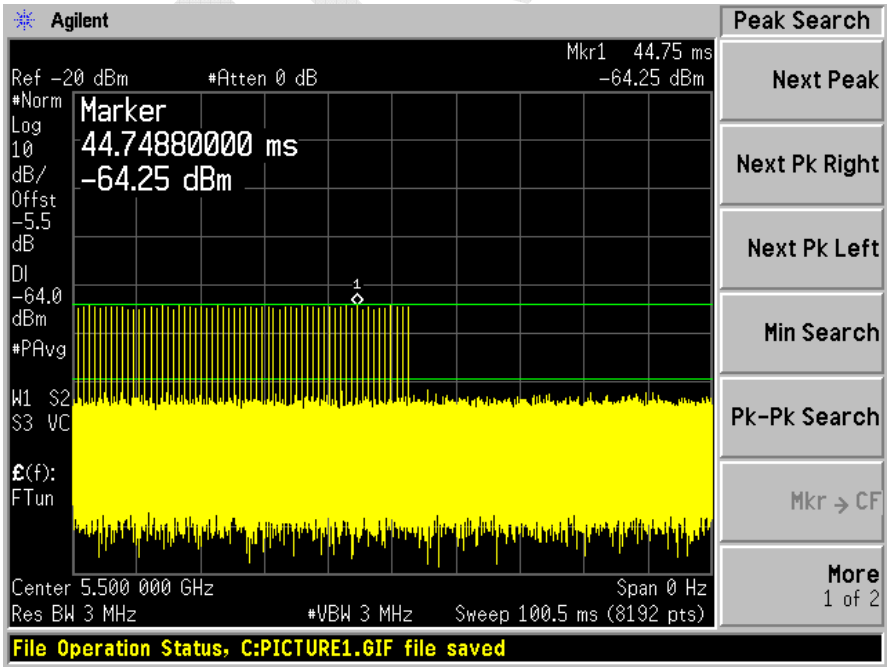


5500 MHz:

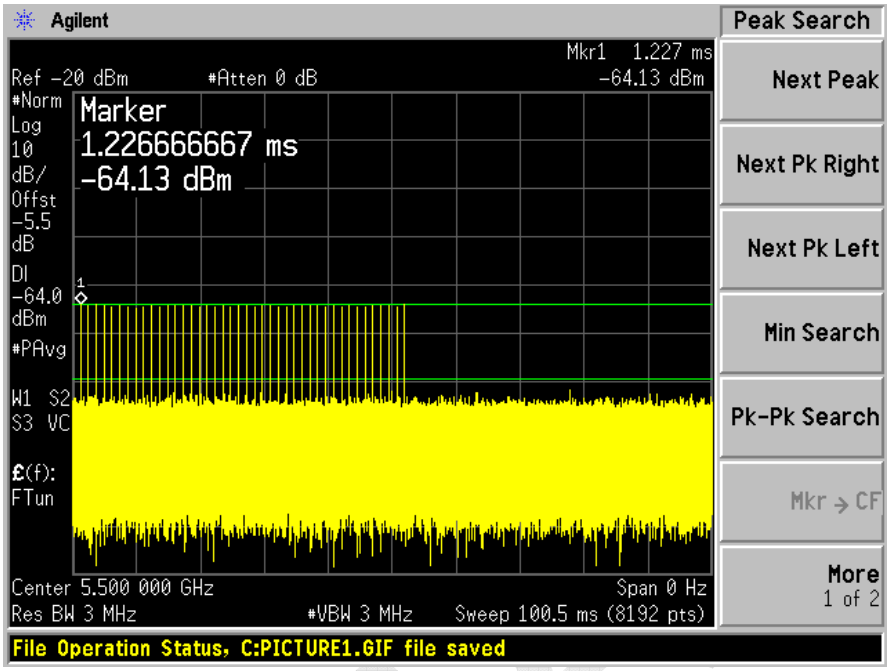
Radar Type 0



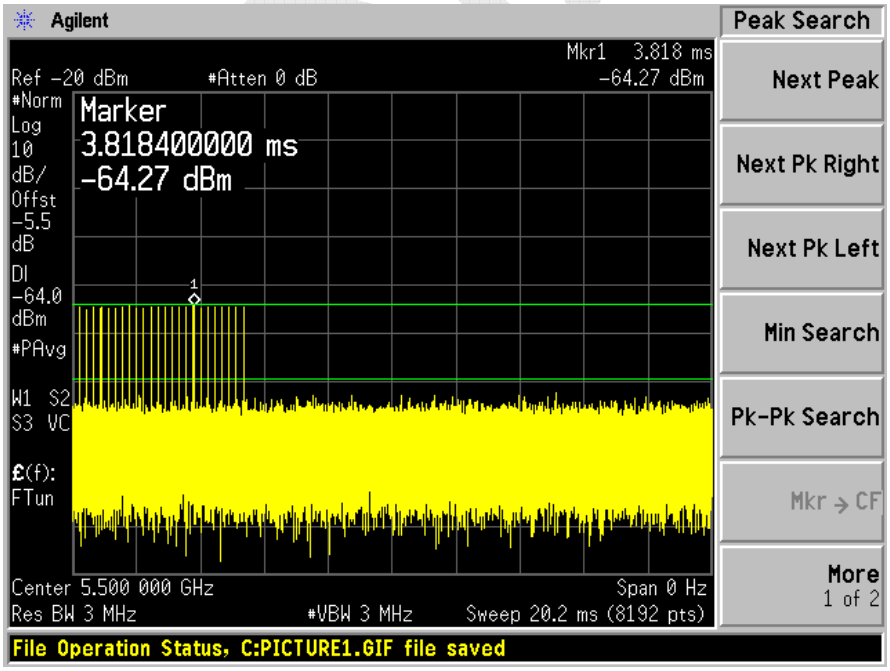
Radar Type 1A



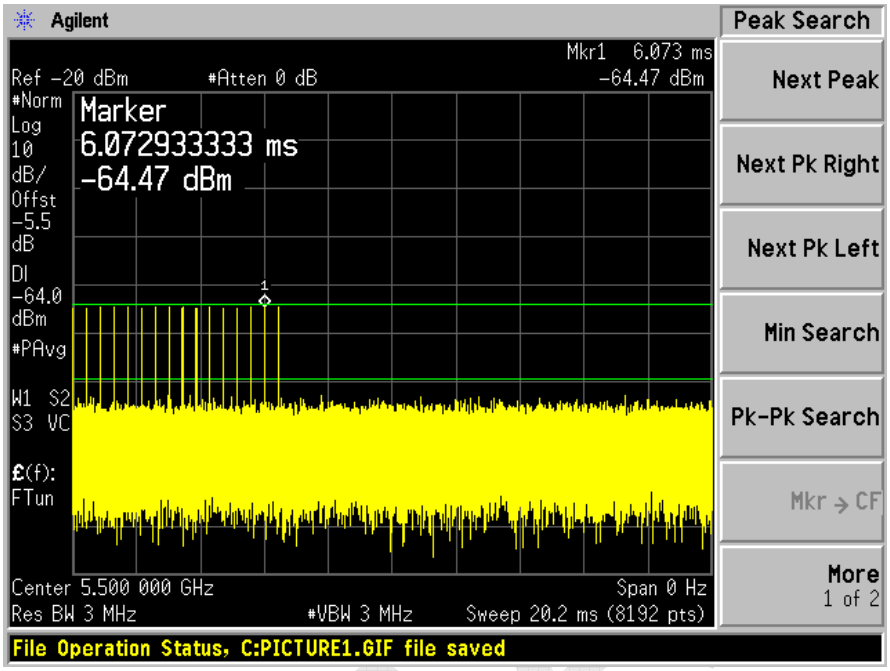
Radar Type 1B



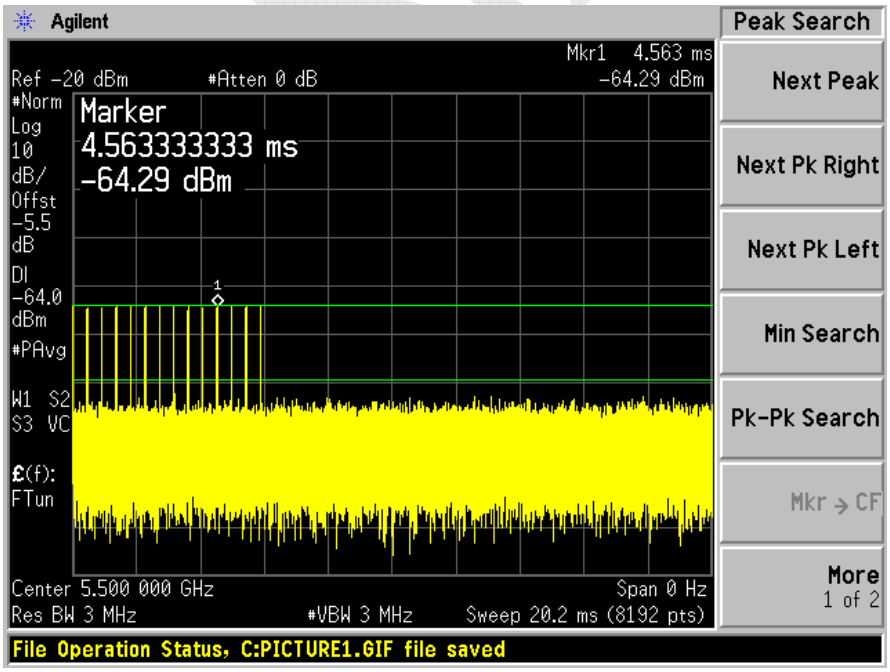
Radar Type 2



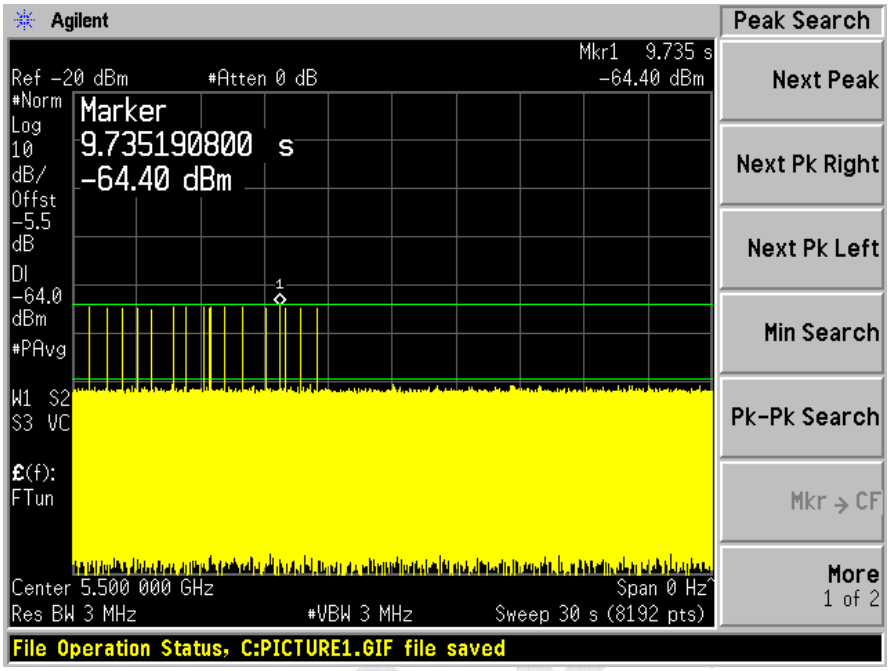
Radar Type 3



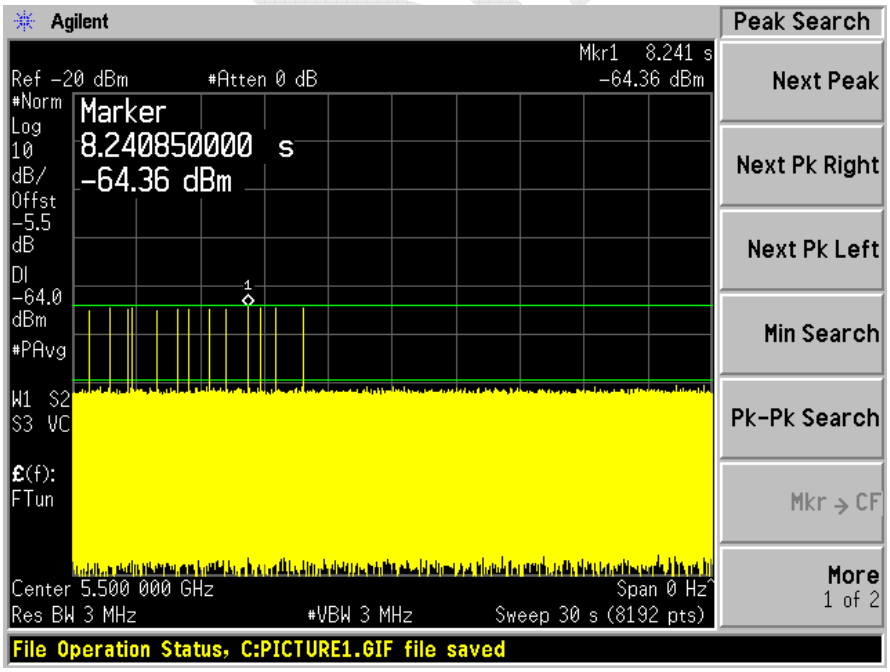
Radar Type 4



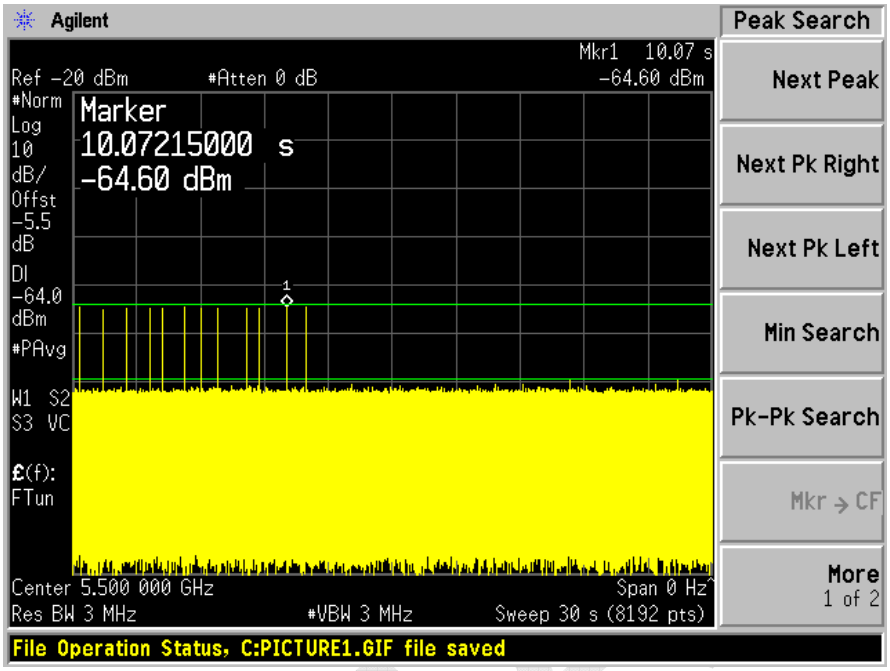
Radar Type 5 Case1



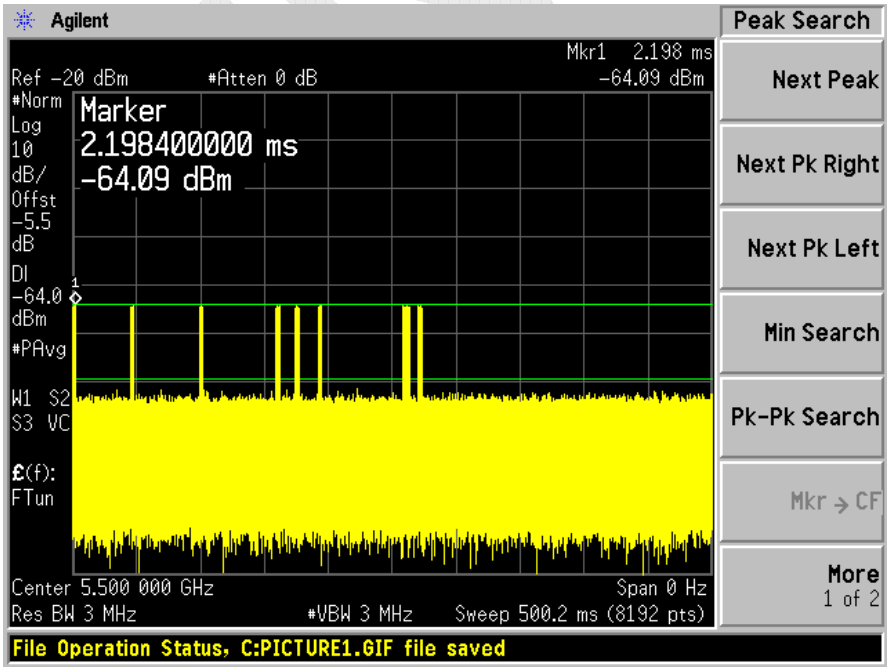
Radar Type 5 Case2



Radar Type 5 Case3



Radar Type 6



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	78.8
5500	76.7

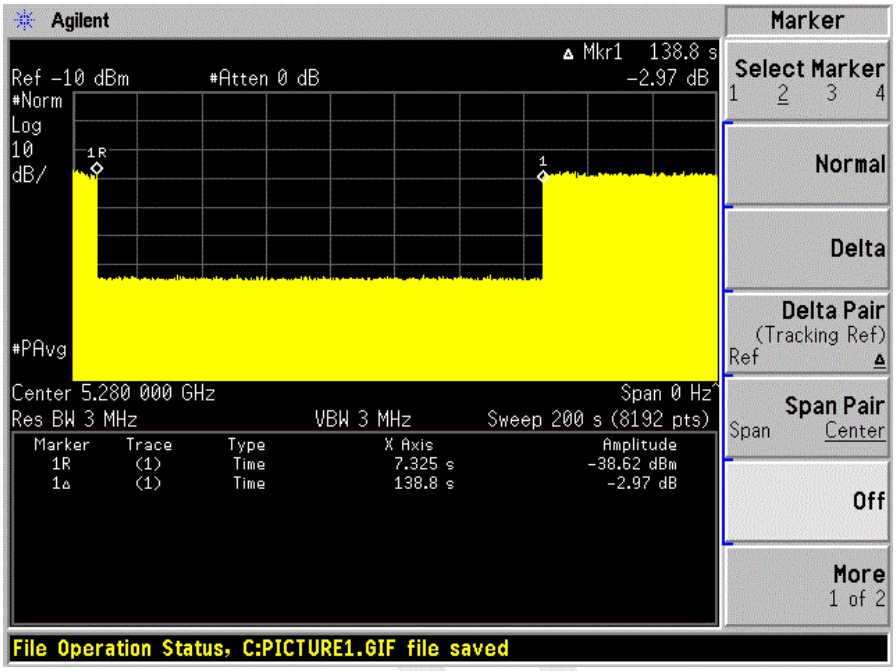
Results:

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.

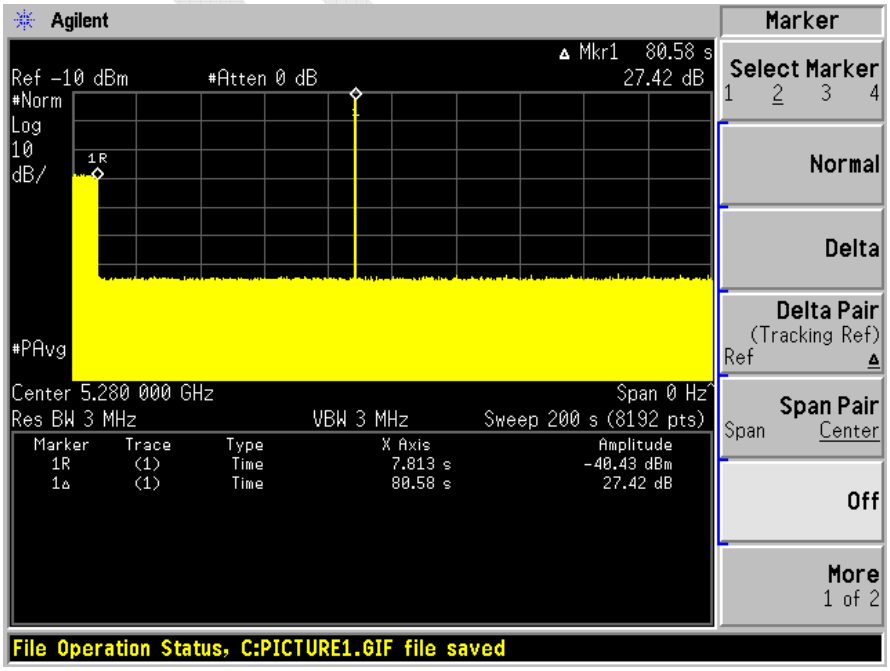
5280 MHz:

Plot of without Radar signal applied



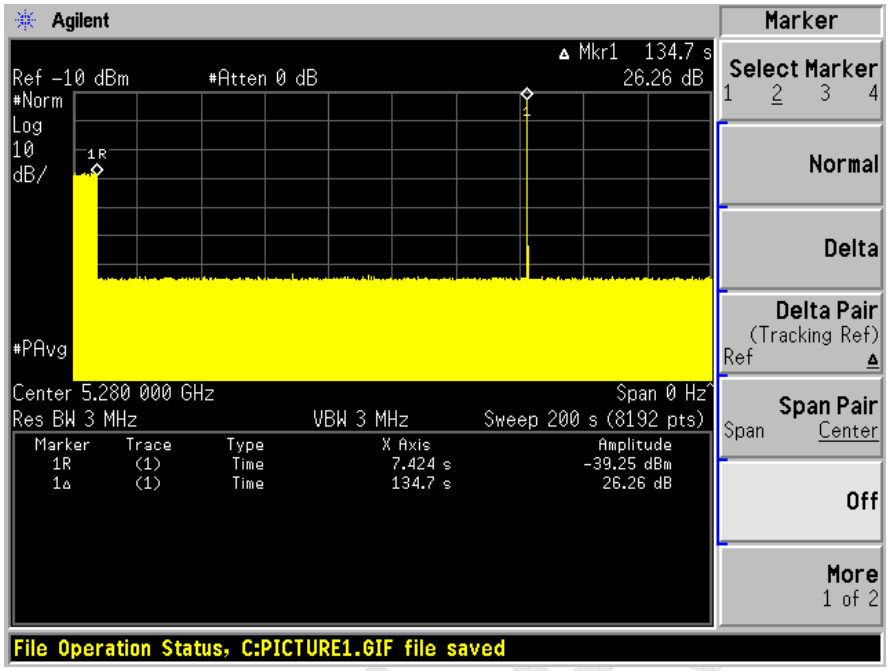
Note: The power-up cycle is 78.8 seconds.

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



No transmissions found after radar signal applied.

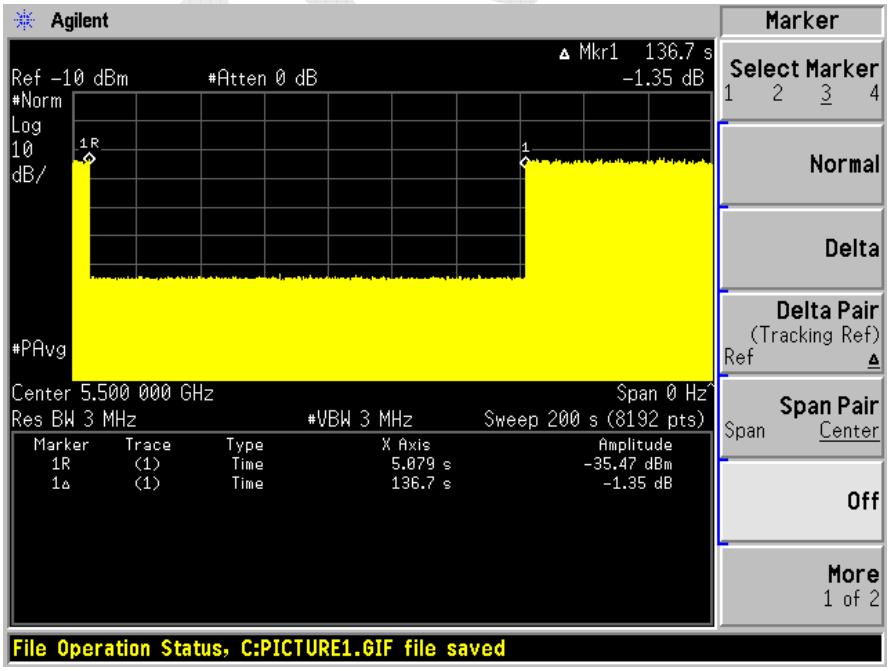
Plot of Radar signal applied at the end of 6 seconds of CAC



No transmissions found after radar signal applied.

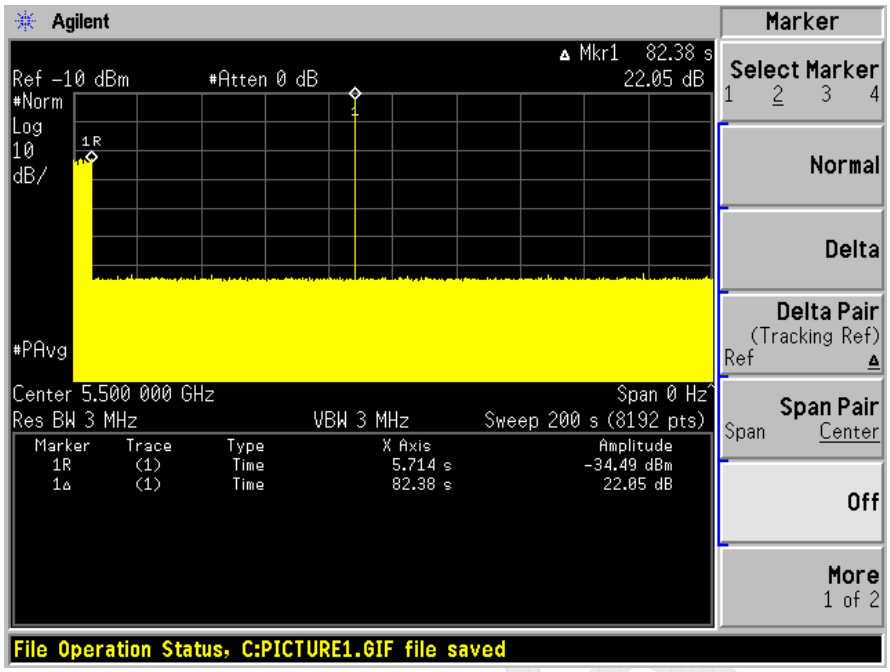
5500 MHz:

Plot of without Radar signal applied



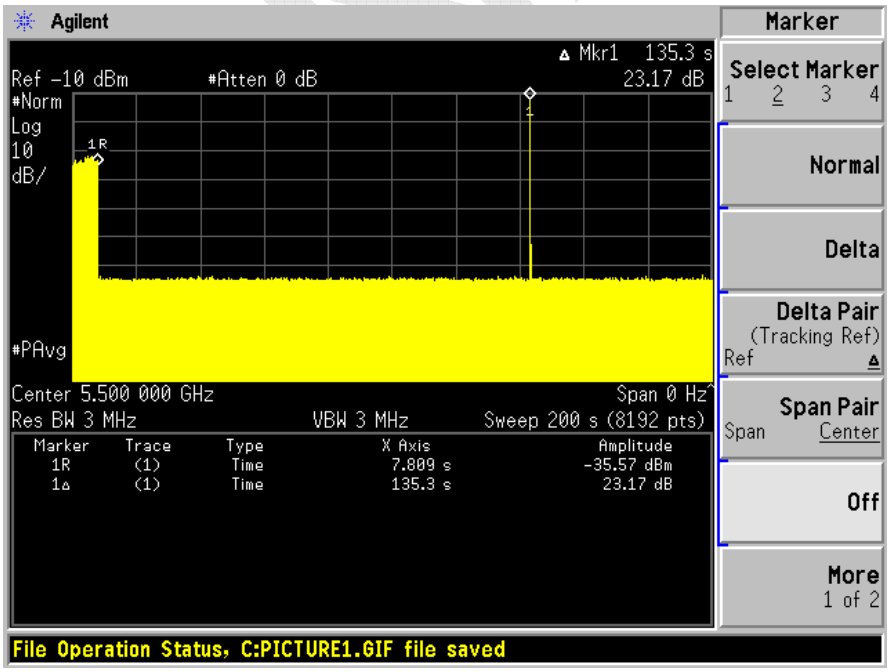
Note: The power-up cycle is 76.7 seconds.

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)

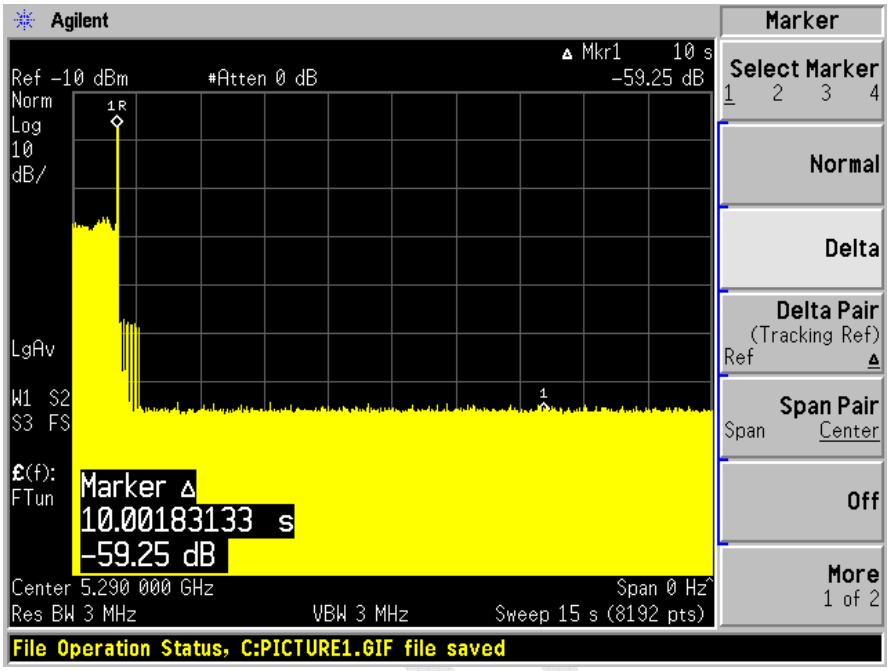
Test Results

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.

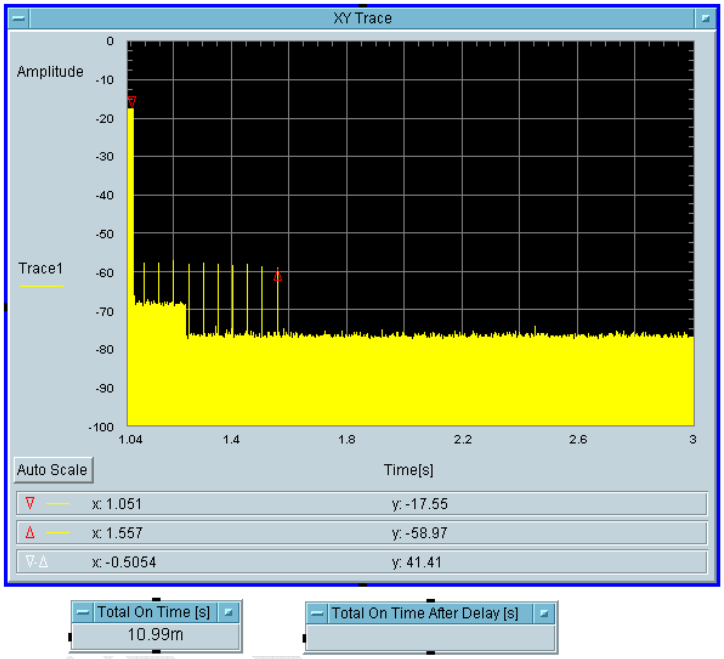
5290 MHz

Type 0 radar channel move time result:



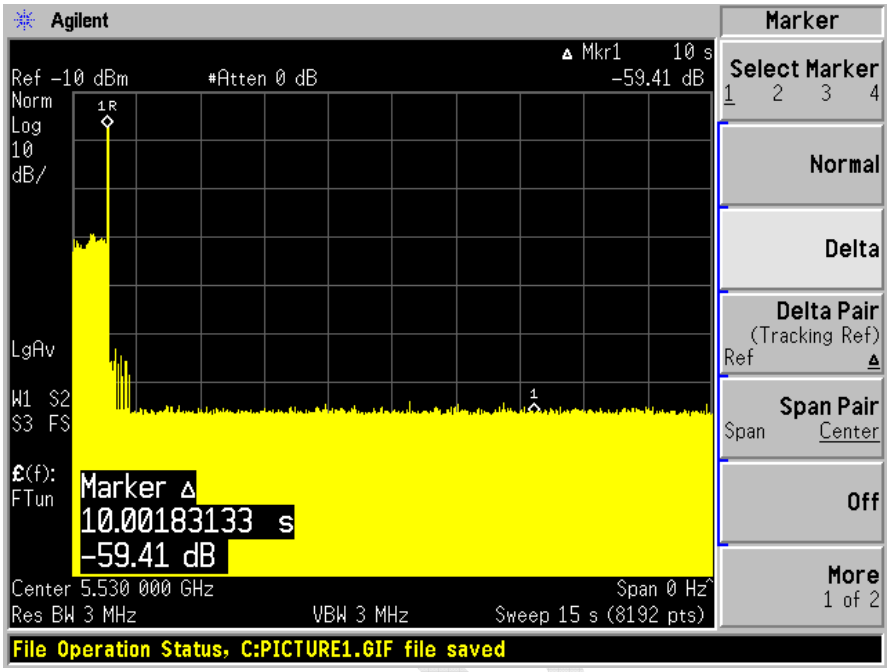
Type0 radar channel closing transmission time result:

Transmission After 200ms	Aggregate Transmission Time After 200ms Delay (ms)	Limit for Aggregate Transmission Time After 200ms Delay (ms)	Result
Yes	10.99	60	Pass



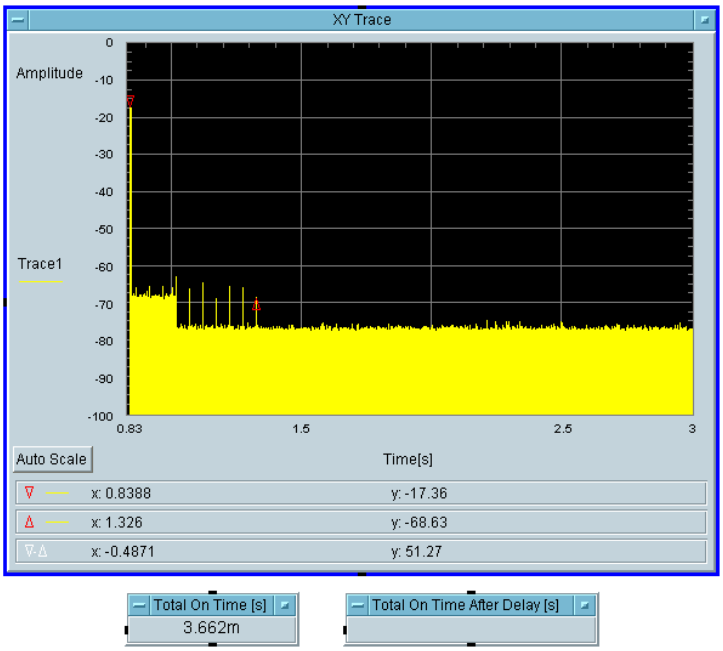
5530 MHz

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	3.662	60	Pass



NON-OCCUPANCY PERIOD

Test Procedure

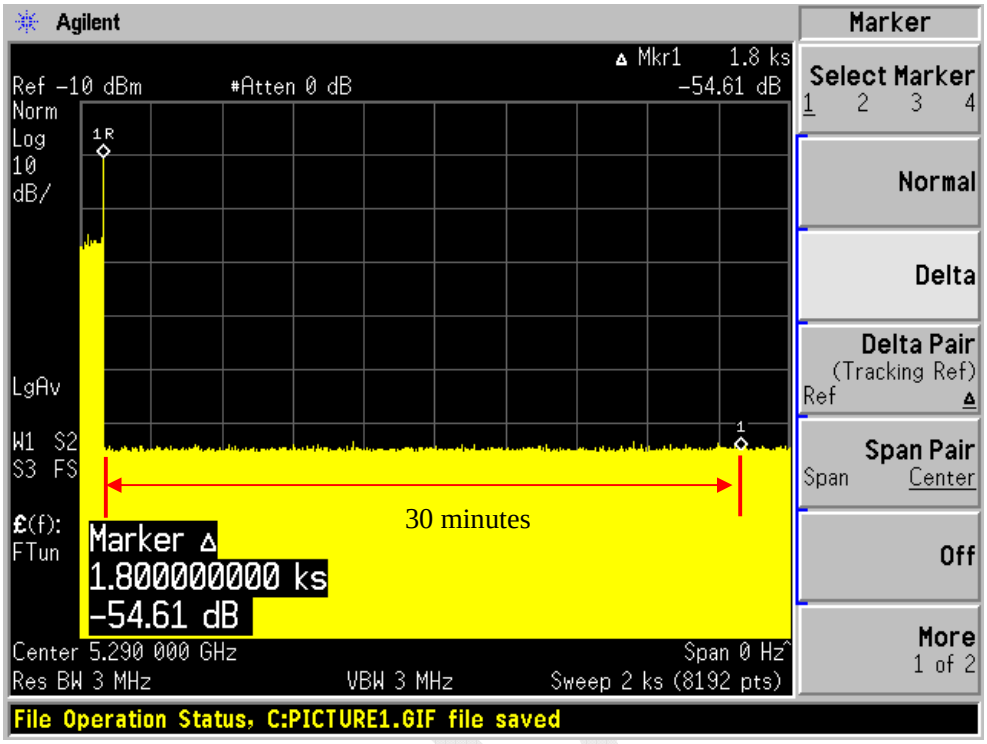
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

Test Result

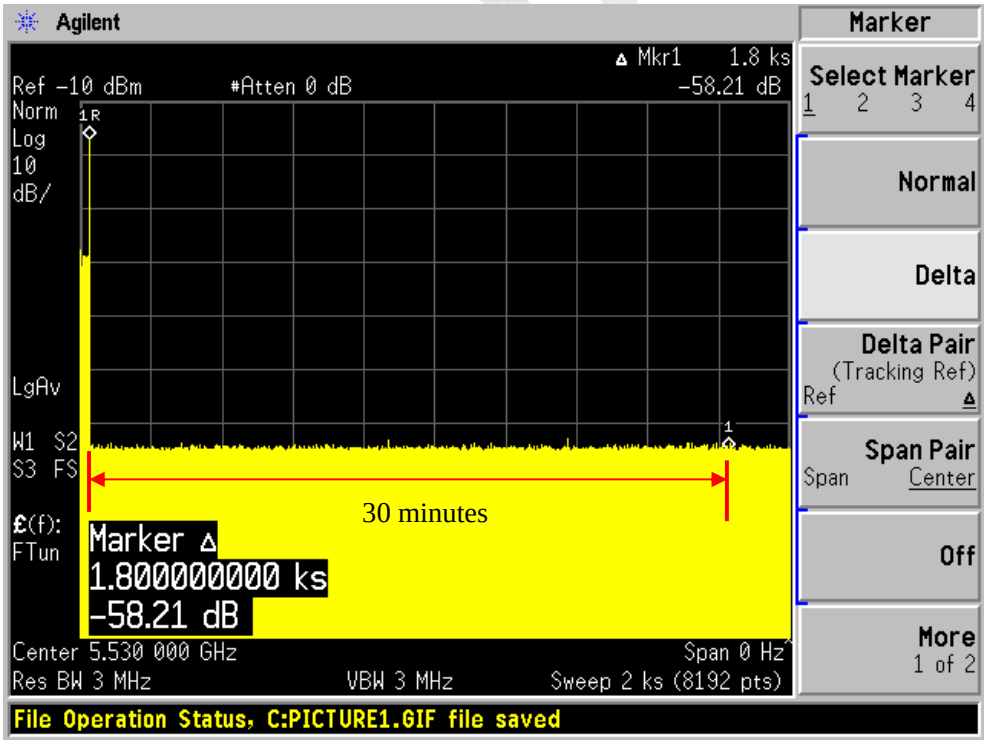
Frequency(MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

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	17.72	100%	Compliance
5270	40	5250	5290	40	36.23	100%	Compliance
5290	80	5251	5329	78	75.99	100%	Compliance
5500	20	5490	5510	20	17.72	100%	Compliance
5510	40	5491	5530	39	36.23	100%	Compliance
5530	80	5491	5570	79	75.99	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	1	1	1	1	1	1	1	1	100 %
5271	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5273	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
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 = 17.72 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 = 17.72 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	0	1	1	1	90 %
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	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 = $F_H - F_L$ = 5290-5250 = 40 MHz											
EUT 99% BW = 36.23 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 = 36.23 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	1	100 %
5569	1	1	1	1	1	1	1	1	1	1	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 = 75.99 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	96.7 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate(Type1 to 4)	120	99.2 %	80%	Pass
Type 5	30	100%	80%	Pass
Type 6	30	100%	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	95	1	558	1
2	5280	68	1	778	1
3	5280	59	1	898	1
4	5280	92	1	578	1
5	5280	102	1	518	1
6	5280	61	1	878	1
7	5280	58	1	918	1
8	5280	57	1	938	1
9	5280	63	1	838	1
10	5280	62	1	858	1
11	5280	76	1	698	1
12	5280	86	1	618	1
13	5280	78	1	678	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	27	1	1999	1
2	5280	89	1	594	1
3	5280	19	1	2783	1
4	5280	94	1	562	1
5	5280	38	1	1413	1
6	5280	43	1	1240	1
7	5280	19	1	2849	1
8	5280	22	1	2512	1
9	5280	20	1	2673	1
10	5280	26	1	2079	1
11	5280	44	1	1213	1
12	5280	91	1	586	1
13	5280	24	1	2222	1
14	5280	26	1	2045	1
15	5280	21	1	2550	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	29	3.1	175	1
2	5280	23	4.1	189	1
3	5280	28	3.1	193	1
4	5280	28	3.7	215	1
5	5280	24	1.8	220	1
6	5280	29	2.3	210	1
7	5280	29	1.1	190	1
8	5280	25	1.4	208	1
9	5280	24	2.3	192	1
10	5280	28	1.1	202	1
11	5280	25	2.1	220	1
12	5280	25	1.6	225	1
13	5280	26	3.6	183	1
14	5280	25	2.6	165	1
15	5280	24	2	173	1
16	5280	25	2.3	156	1
17	5280	28	2.6	183	1
18	5280	26	2.4	179	1
19	5280	24	1.8	223	1
20	5280	23	1.7	166	1
21	5280	25	4.1	222	1
22	5280	27	3.2	199	1
23	5280	28	2.9	184	1
24	5280	28	3.2	160	1
25	5280	27	2.5	202	1
26	5280	27	1	213	1
27	5280	29	3.1	191	1
28	5280	23	2.2	187	1
29	5280	26	3.3	173	1
30	5280	23	1.3	164	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	18	8.5	359	1
2	5280	17	6	419	1
3	5280	18	6.7	400	1
4	5280	18	6	300	1
5	5280	18	9.8	274	1
6	5280	16	9.9	276	1
7	5280	17	7.7	352	1
8	5280	16	6.9	377	1
9	5280	18	9.8	417	1
10	5280	17	9.8	292	1
11	5280	17	7.9	266	1
12	5280	17	9.8	418	1
13	5280	18	9.4	331	1
14	5280	18	7	206	1
15	5280	16	9.9	411	1
16	5280	18	7.9	272	1
17	5280	17	8	209	1
18	5280	16	6.8	351	1
19	5280	17	8.1	351	1
20	5280	17	7.8	278	1
21	5280	17	8.2	476	1
22	5280	17	6.9	266	1
23	5280	18	7.2	356	1
24	5280	16	6.2	275	1
25	5280	17	8.1	390	1
26	5280	17	9	277	1
27	5280	16	7.5	355	1
28	5280	17	9.5	311	0
29	5280	17	8	481	1
30	5280	16	8.2	288	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	5280	13	19.3	421	1
2	5280	12	15.2	368	1
3	5280	15	16.4	378	1
4	5280	12	15.5	282	1
5	5280	16	15.5	412	1
6	5280	16	18.3	426	1
7	5280	16	15.4	332	1
8	5280	13	15.8	375	1
9	5280	15	15.8	409	1
10	5280	14	15.5	337	1
11	5280	16	17.8	373	1
12	5280	13	14.4	306	1
13	5280	13	11.3	357	1
14	5280	16	12.9	349	1
15	5280	16	15.8	210	1
16	5280	15	15.3	217	1
17	5280	16	17.3	271	1
18	5280	12	14.1	372	1
19	5280	12	11.8	402	1
20	5280	12	19.3	351	1
21	5280	16	16.1	305	1
22	5280	12	16	326	1
23	5280	15	17.9	382	1
24	5280	14	12.9	408	1
25	5280	13	13.2	260	1
26	5280	14	18.7	349	1
27	5280	13	18.4	441	1
28	5280	12	15.6	239	1
29	5280	15	17.2	391	1
30	5280	13	18	483	1
Detection Percentage: 100 % (>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	7	55.1	1518	/	0.527623	1
1	3	7	55.5	1158	1782	1.528873	
2	2	7	71.1	1542	/	3.03202	
3	2	7	57	1344	/	4.743312	
4	2	7	73.4	1933	/	5.239879	
5	2	7	86.3	1329	/	6.430408	
6	1	7	66.3	/		7.784236	
7	3	7	79.2	1001	1335	9.127572	
8	1	7	62.4	/	/	10.15177	
9	3	7	83.7	1511	1194	11.20884	

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	6	76.3	1061	/	0.215053	1
1	2	6	58.6	1992	/	1.297442	
2	2	6	73.2	1497	/	1.625994	
3	1	6	77.9	/	/	2.453023	
4	2	6	94.2	1946	/	3.741781	
5	3	6	95	1573	1218	4.13973	
6	3	6	66.3	1607	1170	4.532342	
7	3	6	61.2	1629	1441	5.484139	
8	1	6	52.5	/	/	6.431157	
9	2	6	82.7	1814	/	7.294272	
10	2	6	91	1058	/	7.906575	
11	3	6	98.2	1017	1693	8.562587	
12	2	6	60.9	1598	/	9.481874	
13	3	6	82.2	1922	1173	10.10812	
14	3	6	96.8	1015	1580	10.95444	
15	2	6	94.4	1121	/	11.65527	

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	11	52.1	1361	1132	0.102633	1
1	1	11	69.7	/	/	0.949148	
2	3	11	98.3	1427	1490	1.670166	
3	2	11	91.7	1826	/	2.899449	
4	1	11	61.9	/	/	3.21842	
5	2	11	80.6	1020	/	3.750435	
6	2	11	56.3	1266	/	5.130036	
7	2	11	82.8	1148	/	5.955926	
8	1	11	71.7	/	/	6.103359	
9	3	11	92.8	1957	1020	7.430995	
10	2	11	94.9	1244	/	7.640443	
11	2	11	61.6	1899	/	8.732743	
12	1	11	60.2	/	/	9.511207	
13	2	11	80	1123	/	10.3996	
14	2	11	73.3	1853	/	10.79069	
15	2	11	94.3	1041	/	11.51909	

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	10	82.7	1152	/	0.268186	1
1	2	10	56.7	1467	/	1.187815	
2	2	10	74.8	1694	/	1.971079	
3	1	10	96.2	/	/	3.043943	
4	3	10	64.7	1073	1397	4.047589	
5	2	10	89.6	1788	/	4.624332	
6	2	10	73.1	1687	/	6.346911	
7	2	10	92.9	1446	/	6.796067	
8	2	10	96.3	1644	/	8.087109	
9	1	10	56.4	/	/	8.856448	
10	2	10	61.5	1577	/	9.240656	
11	2	10	90.8	1604	/	10.29216	
12	1	10	96.7	/	/	11.1522	

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	94.3	1745	1074	1.016628	
1	2	13	99.2	1822	/	2.149153	
2	1	13	65.9	/	/	2.328282	
3	1	13	91.9	/	/	4.228139	
4	2	13	85.7	1707	/	4.421592	
5	1	13	59.9	/	/	5.948874	1
6	3	13	71.1	1917	1016	6.989635	
7	1	13	85.8	/	/	8.169204	
8	2	13	74.2	1517	/	8.937546	
9	3	13	83.6	1655	1236	10.82683	
10	1	13	71.5	/	/	11.26577	

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	3	6	85.4	1840	1872	0.223619	
1	3	6	66.1	1463	1666	1.283125	
2	2	6	85.6	1616	/	1.661299	
3	2	6	62.4	1569	/	3.114693	
4	3	6	69.5	1248	1884	3.201026	
5	2	6	69.6	1838	/	4.027984	
6	2	6	89.9	1637	/	5.221863	
7	1	6	84.3	/	/	6.302059	1
8	2	6	78.9	1768	/	7.18445	
9	1	6	85.8	/	/	7.442498	
10	2	6	63.6	1777	/	8.207483	
11	2	6	82.6	1654	/	9.299347	
12	1	6	74.4	/	/	9.948852	
13	2	6	82.5	1909	/	10.87382	
14	1	6	53.2	/	/	11.52114	

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	10	74.6	1335	/	0.199445	
1	3	10	64.1	1208	1594	1.249488	
2	1	10	83.5	/	/	2.304946	
3	2	10	86.3	1005	/	3.755079	
4	1	10	71.2	/	/	4.609952	
5	2	10	69.8	1686	/	6.411923	1
6	2	10	77.2	1338	/	7.250678	
7	2	10	70.4	1257	/	7.656502	
8	2	10	68.8	1576	/	8.892902	
9	2	10	82.8	1780	/	10.35439	
10	1	10	74.2	/	/	11.88435	

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	1	12	95.1	/	/	0.0678	
1	3	12	78	1386	1805	1.043054	
2	1	12	92.1	/	/	2.20459	
3	2	12	77.2	1130	/	3.065565	
4	2	12	70	1007	/	3.926843	
5	3	12	60.2	1045	1948	4.084154	
6	3	12	78.4	1043	1191	5.177833	
7	2	12	71.7	1793	/	6.003305	1
8	2	12	69.2	1582	/	7.006039	
9	1	12	96.6	/	/	7.256055	
10	3	12	57.4	1053	1980	8.065245	
11	3	12	65.8	1300	1832	9.277652	
12	1	12	62.9	/	/	9.962604	
13	3	12	96.1	1034	1185	11.13185	
14	2	12	89.8	1334	/	11.91757	

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	2	13	50.6	1211	/	0.642698	1
1	2	13	85.6	1934	/	1.024991	
2	2	13	57.9	1057	/	2.00058	
3	1	13	66	/	/	3.145784	
4	2	13	52.6	1011	/	4.549666	
5	1	13	64.6	/	/	5.762719	
6	1	13	93.3	/	/	6.162352	
7	2	13	99.6	1323	/	7.237128	
8	2	13	51.1	1930	/	8.276708	
9	1	13	66.2	/	/	9.559642	
10	3	13	91.5	1845	1157	10.77552	
11	2	13	89.6	1713	/	11.09603	

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	1	11	77.6	/	/	0.465504	1
1	2	11	91.7	1676	/	1.208736	
2	3	11	51	1756	1965	1.738082	
3	2	11	75.9	1772	/	2.237365	
4	2	11	57.4	1763	/	3.031273	
5	3	11	64.9	1422	1414	3.909686	
6	3	11	75.7	1957	1298	4.71939	
7	1	11	70.6	/	/	4.96829	
8	2	11	68.3	1689	/	6.311743	
9	2	11	78.6	1883	/	6.430207	
10	3	11	62.1	1014	1177	7.513674	
11	1	11	80.4	/	/	7.869432	
12	3	11	68.9	1534	1382	9.04516	
13	2	11	98.5	1433	/	9.184318	
14	1	11	59.5	/	/	10.08877	
15	1	11	97.6	//	/	11.27285	
16	1	11	94.5	/	/	11.91448	

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	9	54.2	1708	/	0.363142	1
1	1	9	83.9	/	/	1.194731	
2	2	9	67.6	1177	/	1.669725	
3	2	9	87.2	1525	/	2.86248	
4	2	9	82.2	1666	/	3.315031	
5	3	9	65.5	1020	1712	3.826542	
6	2	9	72.4	1423	/	5.186794	
7	3	9	70.7	1981	1241	5.54001	
8	1	9	57.7	/	/	6.115233	
9	2	9	56.2	1483	/	6.781764	
10	2	9	76.2	1069	/	7.533498	
11	1	9	98.7	/	/	8.68726	
12	1	9	64.6	/	/	9.458452	
13	1	9	97.9	/	/	10.4234	
14	1	9	71.8	/	/	10.72971	
15	2	9	63	1016	/	11.62573	

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	1	14	51.5	/	/	0.075607	1
1	1	14	88.9	/	/	1.425231	
2	2	14	81.6	1368	/	2.195825	
3	3	14	57.6	1576	1559	2.835656	
4	1	14	97.8	/	/	3.767021	
5	1	14	95.4	/	/	4.24844	
6	2	14	68.5	1481	/	5.355744	
7	3	14	77.9	1292	1858	5.673375	
8	2	14	80.1	1011	/	6.768535	
9	3	14	57.7	1417	1381	7.358021	
10	3	14	75.1	1690	1879	8.742496	
11	2	14	75.9	1097	/	9.377436	
12	2	14	56.5	1308	/	9.826726	
13	2	14	61.4	1312	/	10.53608	
14	2	14	77.5	1392	/	11.73013	

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	1	18	73.5	/	/	0.336922	1
1	2	18	58.2	1784	/	1.691537	
2	2	18	85.6	1099	/	2.236889	
3	1	18	94.6	/	/	2.818234	
4	3	18	51.4	1873	1044	4.199292	
5	1	18	76.6	/	/	4.936197	
6	2	18	66.9	1894	/	5.678393	
7	3	18	64.2	1502	1108	6.453712	
8	1	18	58	/	/	7.428927	
9	2	18	57.1	1091	/	8.151178	
10	3	18	65.8	1378	1872	9.358276	
11	2	18	83.1	1445	/	10.16918	
12	1	18	52.3	/	/	10.65198	
13	3	18	66.3	1400	1595	11.30458	

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	2	10	75.2	1573	/	0.761579	1
1	3	10	90.7	1247	1687	1.673292	
2	2	10	60.5	1725	/	2.804713	
3	2	10	73.5	1093	/	4.80602	
4	2	10	65.5	1066	/	6.315241	
5	3	10	75.8	1270	1951	7.940493	
6	2	10	99.5	1380	/	8.256615	
7	1	10	97.3	/	/	10.58376	
8	2	10	60.1	1653	/	11.56755	

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	1	19	62.1	/	/	0.403142	1
1	3	19	86.3	1576	1183	1.648043	
2	1	19	57.2	/	/	3.807676	
3	3	19	54.2	1252	1633	5.427793	
4	2	19	65.8	1066	/	6.457913	
5	2	19	50.9	1113	/	8.849706	
6	2	19	51.1	1872	/	9.380851	
7	3	19	88.7	1443	1733	11.31527	

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	10	51	1326	/	0.084613	1
1	2	10	61.6	1388	/	1.094832	
2	2	10	77.5	1963	/	1.658638	
3	3	10	57.2	1656	1310	2.662707	
4	2	10	59.5	1600	/	3.48622	
5	2	10	55.8	1142	/	4.007783	
6	3	10	86.9	1277	1461	4.874828	
7	2	10	83.7	1579	/	5.410571	
8	3	10	85.2	1647	1619	6.543872	
9	3	10	72.9	1691	1006	6.76692	
10	1	10	67.2	/	/	8.211216	
11	2	10	55	1571	/	8.784726	
12	2	10	52.8	1445	/	9.308903	
13	3	10	55.8	1656	1006	10.30142	
14	3	10	66	1384	1665	11.13866	
15	2	10	54.5	1196	/	11.52543	

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	2	17	75.8	1297	/	0.03227	
1	3	17	70.1	1292	1076	1.234891	
2	2	17	70.9	1328	/	1.710712	
3	3	17	80.7	1331	1268	3.04272	
4	2	17	56.7	1472	/	3.69342	
5	3	17	77.7	1677	1694	4.712047	
6	1	17	62.9	/	/	5.526477	
7	1	17	56.8	/	/	6.037881	1
8	2	17	95.2	1773	/	6.75131	
9	3	17	74.8	1283	1526	7.783835	
10	3	17	51.5	1600	1251	8.719741	
11	3	17	80.2	1214	1074	9.404266	
12	2	17	52.1	1627	/	9.963025	
13	2	17	74.3	1252	/	10.70536	
14	2	17	53.2	1793	/	11.4833	

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	14	83.9	1402	/	0.083456	
1	2	14	98.3	1341	/	0.933608	
2	1	14	80.8	/	/	1.609448	
3	2	14	84.9	1794	/	2.518621	
4	1	14	69.8	/	/	2.649931	
5	1	14	50.6	/	/	3.569823	
6	2	14	93.9	1544	/	3.869481	
7	2	14	75.1	1189	/	4.907022	
8	1	14	89.6	/	/	5.488026	
9	3	14	96.6	1189	1394	5.829514	1
10	2	14	72.3	1516	/	6.410706	
11	1	14	96.8	/	/	7.507228	
12	2	14	68.6	1425	/	7.711165	
13	3	14	58.3	1648	1598	8.656525	
14	2	14	92.5	1376	/	9.404781	
15	2	14	67.7	1642	/	9.587074	
16	1	14	63.1	/	/	10.40925	
17	2	14	65.5	1397	/	11.01732	
18	1	14	61.8	/	/	11.45175	

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	19	95.2	1558	1309	0.170279	1
1	1	19	93	/	/	1.758437	
2	3	19	93	1301	1347	2.113764	
3	1	19	89.8	/	/	3.001897	
4	2	19	84.9	1503	/	4.496986	
5	1	19	54.5	/	/	5.300652	
6	2	19	98.3	1668	/	6.225282	
7	1	19	94.8	/	/	7.829719	
8	2	19	57.5	1192	/	8.955081	
9	3	19	89.1	1795	1681	9.220821	
10	3	19	98.6	1709	1748	10.34834	
11	1	19	82.8	/	/	11.0894	

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	1	6	78.3	/	/	0.460735	1
1	2	6	55	1621	/	1.345636	
2	3	6	91.2	1695	1782	2.10884	
3	2	6	55.8	1919	/	2.623499	
4	2	6	85.3	1614	/	3.018235	
5	2	6	59.5	1961	/	4.031788	
6	3	6	73.9	1735	1704	4.846293	
7	1	6	77.8	/	/	5.287867	
8	2	6	60.5	1985	/	5.65468	
9	2	6	71	1698	/	6.367977	
10	2	6	61.9	1297	/	7.249154	
11	1	6	76.3	/	/	8.197463	
12	2	6	57.6	1264	/	8.75668	
13	3	6	55.4	1700	1169	9.804129	
14	3	6	94.8	1619	1486	10.57944	
15	3	6	55.9	1623	1910	11.08318	
16	1	6	56.4	/	/	11.6152	

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	2	14	70.6	1529	/	0.15679	1
1	2	14	80.2	1106	/	1.034197	
2	3	14	56.2	1964	1140	1.954734	
3	2	14	64.4	1267	/	2.67915	
4	1	14	50.2	/	/	3.752474	
5	2	14	68.5	1650	/	4.084952	
6	1	14	54	/	/	4.896797	
7	2	14	77.3	1354	/	5.601257	
8	2	14	55.4	1318	/	6.796815	
9	2	14	77	1164	/	7.952741	
10	1	14	96.1	/	/	8.054769	
11	2	14	93.1	1404	/	9.15643	
12	2	14	62.3	1724	/	10.05478	
13	1	14	59.1	/	/	10.87162	
14	2	14	84.8	1731	/	11.25046	

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	3	11	59.9	1461	1141	0.823051	1
1	3	11	54.8	1105	1247	2.307758	
2	1	11	98	/	/	2.986321	
3	2	11	94.2	1049	/	4.591429	
4	2	11	66.1	1793	/	5.583335	
5	2	11	79.9	1182	/	7.113533	
6	1	11	72.8	/	/	7.207358	
7	3	11	95.3	1841	1282	8.759026	
8	3	11	94.7	1899	1543	10.01466	
9	1	11	50	/	/	11.22031	

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	3	19	95.4	1632	1149	0.021637	1
1	1	19	98.4	/	/	1.059888	
2	2	19	68.9	1534	/	2.328065	
3	2	19	88.5	1659	/	2.49638	
4	2	19	75.7	1393	/	3.916367	
5	2	19	87.9	1851	/	4.466061	
6	3	19	56.7	1645	1951	5.180701	
7	3	19	96	1851	1728	5.683329	
8	1	19	51.4	/	/	6.705551	
9	3	19	91.4	1550	1554	7.751305	
10	1	19	94.9	/	/	8.401944	
11	2	19	65.9	1454	/	9.054128	
12	2	19	95.6	1731	/	10.21079	
13	2	19	70.8	1653	/	10.50084	
14	2	19	65.5	1965	/	11.35377	

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	1	14	51.8	/	/	0.336911	1
1	1	14	84.7	/	/	1.673389	
2	1	14	92.6	/	/	3.345281	
3	2	14	57.3	1872	/	4.624954	
4	2	14	92.6	1270	/	5.970699	
5	2	14	98.4	1330	/	6.449979	
6	1	14	82.4	/	/	7.559555	
7	1	14	77.8	/	/	8.774956	
8	3	14	97	1572	1266	10.75797	
9	2	14	51.5	1347	/	11.79045	

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	16	62.1	1708	/	0.490028	1
1	2	16	65.6	1700	/	0.673981	
2	1	16	89.1	/	/	1.520021	
3	3	16	84.1	1241	1104	2.032482	
4	2	16	89.8	1192	/	2.936408	
5	2	16	52.6	1783	/	3.680485	
6	1	16	68.1	/	/	4.145752	
7	2	16	80.9	1487	/	4.732225	
8	2	16	65.5	1310	/	5.481571	
9	2	16	97.7	1271	/	6.09093	
10	1	16	53.1	/	/	6.587695	
11	2	16	76.3	1638	/	7.546516	
12	2	16	78.7	1524	/	7.986946	
13	2	16	52.7	1013	/	8.29174	
14	2	16	73.8	1396	/	9.083833	
15	1	16	85.2	/	/	9.705984	
16	2	16	64.4	1334	/	10.31676	
17	2	16	79.4	1915	/	10.87887	
18	1	16	76.8	/	/	11.855	

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	2	13	74.2	1696	/	0.341511	1
1	1	13	66.5	/	/	0.893354	
2	2	13	82.7	1566	/	1.909564	
3	1	13	56.3	/	/	2.61764	
4	2	13	66.3	1310	/	3.012839	
5	1	13	74	/	/	3.635475	
6	2	13	58.6	1763	/	4.504173	
7	2	13	71.2	1682	/	5.149581	
8	2	13	89.3	1739	/	5.542827	
9	2	13	84.3	1746	/	6.055613	
10	2	13	56.2	1903	/	7.139893	
11	1	13	60	/	/	7.952263	
12	2	13	50.4	1273	/	8.602209	
13	2	13	82.3	1831	/	8.69042	
14	1	13	85.7	/	/	9.742113	
15	2	13	69.3	1660	/	10.02836	
16	2	13	61.8	1555	/	10.74634	
17	1	13	71.6	/	/	11.83463	

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	1	9	92.6	/	/	0.737208	1
1	2	9	88.1	1614	/	1.241968	
2	1	9	58.3	/	/	1.752146	
3	1	9	86.7	/	/	2.735291	
4	3	9	50	1510	1222	3.149904	
5	3	9	64.3	1688	1911	4.028076	
6	2	9	94.1	1393	/	5.014014	
7	2	9	51.9	1622	/	5.704571	
8	3	9	88.9	1493	1615	6.234698	
9	3	9	51.7	1255	1440	6.888888	
10	2	9	99.3	1350	/	7.974058	
11	1	9	90.5	/	/	8.821016	
12	2	9	90.5	1371	/	9.604818	
13	2	9	89	1612	/	10.08596	
14	2	9	66.7	1829	/	10.93573	
15	2	9	91.6	1574	/	11.79057	

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	99.8	1429	1065	0.75969	1
1	2	10	73.7	1410	/	2.02968	
2	2	10	52.3	1696	/	3.599129	
3	3	10	72.2	1046	1380	5.286076	
4	3	10	83.5	1761	1589	5.820765	
5	2	10	97.3	1260	/	6.680519	
6	3	10	96	1091	1290	8.976044	
7	1	10	58.5	/	/	10.55782	
8	1	10	96.4	/	/	11.82251	

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	19	61.8	1235	/	0.121864	1
1	1	19	74.9	/	/	1.213982	
2	2	19	60.3	1969	/	1.669205	
3	2	19	59.8	1430	/	3.086965	
4	1	19	87.3	/	/	3.462227	
5	2	19	65.3	1439	/	4.661357	
6	2	19	75.8	1298	/	5.22718	
7	3	19	70.1	1965	1395	6.073919	
8	1	19	99.8	/	/	6.484925	
9	2	19	54.4	1424	/	7.66415	
10	1	19	78.4	/	/	8.324251	
11	2	19	55.8	1086	/	9.353887	
12	2	19	63	1788	/	10.10214	
13	2	19	50.5	1960	/	10.89837	
14	3	19	90.6	1087	1077	11.52677	

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	2	19	62.6	1120	/	0.442418	1
1	3	19	84.3	1853	1899	1.971725	
2	1	19	81	/	/	3.209885	
3	2	19	89.1	1683	/	3.938266	
4	1	19	67.2	/	/	4.913784	
5	2	19	86.4	1006	/	6.471263	
6	1	19	96.4	/	/	7.281604	
7	1	19	96.7	/	/	8.613697	
8	2	19	51.7	1935	/	10.33049	
9	2	19	69.2	1340	/	11.88437	

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	5594.0, 5491.0, 5306.0, 5284.0, 5316.0, 5623.0, 5301.0, 5524.0, 5494.0, 5592.0, 5502.0, 5499.0, 5463.0, 5665.0, 5706.0, 5320.0, 5464.0, 5500.0, 5362.0, 5470.0, 5602.0, 5578.0, 5261.0, 5286.0, 5571.0, 5640.0, 5447.0, 5350.0, 5609.0, 5681.0, 5377.0, 5689.0, 5400.0, 5589.0, 5375.0, 5351.0, 5675.0, 5526.0, 5282.0, 5692.0, 5522.0, 5461.0, 5645.0, 5422.0, 5657.0, 5720.0, 5453.0, 5541.0, 5349.0, 5552.0, 5527.0, 5388.0, 5485.0, 5472.0, 5643.0, 5540.0, 5308.0, 5393.0, 5632.0, 5694.0, 5428.0, 5559.0, 5520.0, 5255.0, 5507.0, 5318.0, 5431.0, 5716.0, 5517.0, 5504.0, 5418.0, 5269.0, 5483.0, 5327.0, 5704.0, 5620.0, 5262.0, 5561.0, 5713.0, 5488.0, 5353.0, 5383.0, 5426.0, 5429.0, 5291.0, 5547.0, 5572.0, 5607.0, 5537.0, 5480.0, 5315.0, 5683.0, 5250.0, 5521.0, 5346.0, 5639.0, 5474.0, 5451.0, 5300.0, 5411.0
2	5280	9	1	333	1	5536.0, 5525.0, 5298.0, 5460.0, 5551.0, 5623.0, 5280.0, 5486.0, 5411.0, 5665.0, 5303.0, 5650.0, 5690.0, 5699.0, 5347.0, 5348.0, 5709.0, 5443.0, 5545.0, 5349.0, 5704.0, 5652.0, 5708.0, 5285.0, 5554.0, 5410.0, 5575.0, 5612.0, 5383.0, 5546.0, 5505.0, 5720.0, 5466.0, 5550.0, 5562.0, 5302.0, 5555.0, 5620.0, 5493.0, 5688.0, 5600.0, 5345.0, 5384.0, 5263.0, 5639.0, 5604.0, 5719.0, 5334.0, 5485.0, 5638.0, 5584.0, 5526.0, 5323.0, 5641.0, 5292.0, 5279.0, 5578.0, 5439.0, 5335.0, 5663.0, 5537.0, 5402.0, 5495.0, 5442.0, 5607.0, 5310.0, 5320.0, 5549.0, 5308.0, 5406.0, 5386.0, 5446.0, 5625.0, 5301.0, 5552.0, 5680.0, 5684.0, 5289.0, 5307.0, 5636.0, 5294.0, 5506.0, 5252.0, 5609.0, 5619.0, 5692.0, 5427.0, 5654.0, 5559.0, 5468.0, 5516.0, 5404.0, 5606.0, 5474.0, 5514.0, 5463.0, 5558.0, 5646.0, 5362.0, 5284.0
3	5280	9	1	333	1	5595.0, 5518.0, 5448.0, 5431.0, 5416.0, 5620.0, 5606.0, 5530.0, 5480.0, 5352.0, 5543.0, 5466.0, 5383.0, 5391.0, 5272.0, 5402.0, 5251.0, 5370.0, 5507.0, 5510.0, 5633.0, 5610.0, 5526.0, 5563.0, 5335.0, 5715.0, 5520.0, 5302.0, 5323.0, 5649.0, 5327.0, 5688.0, 5690.0, 5579.0, 5642.0, 5641.0, 5463.0, 5496.0, 5509.0, 5696.0, 5504.0, 5398.0, 5685.0, 5708.0, 5255.0, 5551.0, 5337.0, 5669.0, 5381.0, 5430.0, 5278.0, 5287.0, 5296.0, 5611.0, 5397.0, 5479.0, 5580.0, 5666.0, 5673.0, 5464.0, 5492.0, 5372.0, 5298.0, 5529.0, 5627.0,

						5681.0, 5617.0, 5572.0, 5703.0, 5305.0, 5262.0, 5301.0, 5344.0, 5578.0, 5332.0, 5652.0, 5440.0, 5339.0, 5350.0, 5553.0, 5462.0, 5679.0, 5723.0, 5590.0, 5279.0, 5354.0, 5378.0, 5268.0, 5407.0, 5252.0, 5290.0, 5376.0, 5426.0, 5515.0, 5607.0, 5320.0, 5489.0, 5519.0, 5566.0, 5540.0
4	5280	9	1	333	1	5611.0, 5505.0, 5435.0, 5596.0, 5362.0, 5556.0, 5638.0, 5274.0, 5614.0, 5457.0, 5408.0, 5651.0, 5666.0, 5530.0, 5253.0, 5279.0, 5483.0, 5411.0, 5314.0, 5507.0, 5672.0, 5388.0, 5387.0, 5701.0, 5458.0, 5514.0, 5606.0, 5335.0, 5509.0, 5587.0, 5536.0, 5566.0, 5439.0, 5445.0, 5495.0, 5517.0, 5628.0, 5438.0, 5529.0, 5432.0, 5595.0, 5723.0, 5586.0, 5558.0, 5591.0, 5620.0, 5609.0, 5401.0, 5673.0, 5568.0, 5275.0, 5352.0, 5318.0, 5452.0, 5542.0, 5300.0, 5722.0, 5360.0, 5372.0, 5658.0, 5486.0, 5336.0, 5659.0, 5669.0, 5527.0, 5538.0, 5675.0, 5480.0, 5378.0, 5410.0, 5464.0, 5426.0, 5661.0, 5644.0, 5560.0, 5428.0, 5449.0, 5504.0, 5656.0, 5478.0, 5618.0, 5447.0, 5562.0, 5715.0, 5320.0, 5331.0, 5283.0, 5631.0, 5719.0, 5613.0, 5593.0, 5633.0, 5580.0, 5541.0, 5635.0, 5484.0, 5397.0, 5676.0, 5390.0, 5347.0
5	5280	9	1	333	1	5416.0, 5265.0, 5679.0, 5454.0, 5508.0, 5337.0, 5278.0, 5698.0, 5255.0, 5483.0, 5586.0, 5303.0, 5410.0, 5466.0, 5362.0, 5638.0, 5370.0, 5336.0, 5553.0, 5294.0, 5523.0, 5683.0, 5694.0, 5373.0, 5485.0, 5668.0, 5452.0, 5624.0, 5320.0, 5357.0, 5331.0, 5356.0, 5280.0, 5716.0, 5433.0, 5645.0, 5571.0, 5566.0, 5724.0, 5713.0, 5420.0, 5293.0, 5664.0, 5252.0, 5408.0, 5271.0, 5385.0, 5431.0, 5306.0, 5544.0, 5364.0, 5587.0, 5449.0, 5492.0, 5715.0, 5491.0, 5405.0, 5259.0, 5510.0, 5321.0, 5270.0, 5309.0, 5707.0, 5547.0, 5519.0, 5457.0, 5559.0, 5460.0, 5568.0, 5515.0, 5697.0, 5269.0, 5299.0, 5389.0, 5632.0, 5334.0, 5603.0, 5262.0, 5635.0, 5441.0, 5549.0, 5424.0, 5695.0, 5330.0, 5349.0, 5481.0, 5298.0, 5614.0, 5397.0, 5505.0, 5486.0, 5379.0, 5256.0, 5577.0, 5706.0, 5551.0, 5463.0, 5295.0, 5648.0, 5691.0
6	5280	9	1	333	1	5282.0, 5605.0, 5410.0, 5608.0, 5346.0, 5423.0, 5451.0, 5315.0, 5359.0, 5508.0, 5515.0, 5667.0, 5612.0, 5279.0, 5455.0, 5456.0, 5651.0, 5532.0, 5276.0, 5607.0, 5370.0, 5529.0, 5439.0, 5597.0, 5552.0, 5390.0, 5644.0, 5422.0, 5280.0, 5263.0, 5297.0, 5440.0, 5373.0, 5430.0, 5337.0, 5364.0, 5504.0, 5560.0, 5596.0, 5416.0, 5704.0, 5369.0, 5554.0, 5286.0, 5408.0, 5463.0, 5453.0, 5562.0, 5404.0, 5484.0, 5305.0, 5723.0, 5477.0, 5483.0, 5603.0, 5576.0, 5268.0, 5489.0, 5357.0, 5679.0, 5465.0, 5688.0, 5505.0, 5517.0, 5298.0,

						5383.0, 5324.0, 5374.0, 5710.0, 5528.0, 5645.0, 5419.0, 5509.0, 5580.0, 5470.0, 5283.0, 5323.0, 5377.0, 5700.0, 5445.0, 5616.0, 5672.0, 5386.0, 5600.0, 5566.0, 5671.0, 5501.0, 5649.0, 5494.0, 5691.0, 5281.0, 5689.0, 5513.0, 5460.0, 5660.0, 5708.0, 5335.0, 5719.0, 5334.0, 5536.0
7	5280	9	1	333	1	5256.0, 5441.0, 5548.0, 5479.0, 5510.0, 5470.0, 5697.0, 5514.0, 5431.0, 5463.0, 5393.0, 5592.0, 5498.0, 5263.0, 5268.0, 5523.0, 5518.0, 5712.0, 5556.0, 5366.0, 5424.0, 5287.0, 5327.0, 5453.0, 5436.0, 5683.0, 5598.0, 5706.0, 5458.0, 5305.0, 5692.0, 5277.0, 5627.0, 5403.0, 5356.0, 5568.0, 5507.0, 5445.0, 5635.0, 5685.0, 5551.0, 5350.0, 5638.0, 5406.0, 5489.0, 5662.0, 5335.0, 5599.0, 5515.0, 5614.0, 5488.0, 5290.0, 5358.0, 5276.0, 5626.0, 5261.0, 5284.0, 5437.0, 5451.0, 5476.0, 5570.0, 5252.0, 5303.0, 5450.0, 5443.0, 5695.0, 5665.0, 5302.0, 5708.0, 5513.0, 5354.0, 5315.0, 5288.0, 5717.0, 5524.0, 5550.0, 5409.0, 5448.0, 5279.0, 5425.0, 5659.0, 5566.0, 5699.0, 5549.0, 5537.0, 5368.0, 5656.0, 5266.0, 5395.0, 5486.0, 5538.0, 5274.0, 5384.0, 5581.0, 5381.0, 5603.0, 5640.0, 5370.0, 5416.0, 5628.0
8	5280	9	1	333	1	5717.0, 5623.0, 5488.0, 5553.0, 5429.0, 5251.0, 5555.0, 5459.0, 5395.0, 5549.0, 5500.0, 5692.0, 5523.0, 5281.0, 5700.0, 5345.0, 5444.0, 5467.0, 5270.0, 5319.0, 5289.0, 5359.0, 5363.0, 5551.0, 5356.0, 5642.0, 5473.0, 5344.0, 5686.0, 5433.0, 5353.0, 5358.0, 5300.0, 5329.0, 5376.0, 5565.0, 5371.0, 5321.0, 5336.0, 5334.0, 5260.0, 5487.0, 5403.0, 5339.0, 5337.0, 5585.0, 5447.0, 5276.0, 5644.0, 5368.0, 5272.0, 5452.0, 5522.0, 5670.0, 5548.0, 5542.0, 5326.0, 5352.0, 5428.0, 5271.0, 5273.0, 5491.0, 5308.0, 5286.0, 5563.0, 5537.0, 5714.0, 5573.0, 5535.0, 5529.0, 5386.0, 5295.0, 5564.0, 5378.0, 5387.0, 5333.0, 5495.0, 5674.0, 5597.0, 5682.0, 5577.0, 5397.0, 5393.0, 5382.0, 5719.0, 5367.0, 5607.0, 5560.0, 5663.0, 5346.0, 5434.0, 5469.0, 5693.0, 5559.0, 5653.0, 5508.0, 5666.0, 5465.0, 5561.0, 5406.0
9	5280	9	1	333	1	5318.0, 5475.0, 5629.0, 5403.0, 5441.0, 5616.0, 5663.0, 5500.0, 5323.0, 5697.0, 5404.0, 5461.0, 5648.0, 5661.0, 5463.0, 5615.0, 5672.0, 5560.0, 5346.0, 5457.0, 5387.0, 5684.0, 5561.0, 5564.0, 5322.0, 5548.0, 5394.0, 5324.0, 5722.0, 5702.0, 5366.0, 5485.0, 5718.0, 5402.0, 5492.0, 5563.0, 5490.0, 5369.0, 5658.0, 5260.0, 5306.0, 5284.0, 5541.0, 5627.0, 5426.0, 5538.0, 5621.0, 5582.0, 5588.0, 5399.0, 5568.0, 5486.0, 5540.0, 5388.0, 5506.0, 5479.0, 5653.0, 5547.0, 5644.0, 5701.0, 5317.0, 5351.0, 5640.0, 5401.0, 5411.0,

						5645.0, 5364.0, 5509.0, 5350.0, 5528.0, 5379.0, 5724.0, 5714.0, 5265.0, 5339.0, 5681.0, 5499.0, 5252.0, 5508.0, 5476.0, 5656.0, 5406.0, 5251.0, 5288.0, 5631.0, 5711.0, 5431.0, 5683.0, 5358.0, 5550.0, 5687.0, 5437.0, 5652.0, 5543.0, 5583.0, 5385.0, 5464.0, 5605.0, 5412.0, 5676.0
10	5280	9	1	333	1	5357.0, 5347.0, 5456.0, 5578.0, 5650.0, 5310.0, 5637.0, 5494.0, 5699.0, 5577.0, 5386.0, 5665.0, 5715.0, 5638.0, 5557.0, 5604.0, 5476.0, 5381.0, 5589.0, 5593.0, 5598.0, 5447.0, 5257.0, 5437.0, 5626.0, 5448.0, 5411.0, 5463.0, 5288.0, 5439.0, 5627.0, 5541.0, 5648.0, 5403.0, 5520.0, 5387.0, 5408.0, 5460.0, 5528.0, 5653.0, 5588.0, 5693.0, 5677.0, 5472.0, 5620.0, 5676.0, 5434.0, 5298.0, 5630.0, 5570.0, 5701.0, 5421.0, 5363.0, 5618.0, 5343.0, 5412.0, 5321.0, 5567.0, 5544.0, 5563.0, 5631.0, 5377.0, 5600.0, 5304.0, 5504.0, 5413.0, 5374.0, 5424.0, 5691.0, 5603.0, 5666.0, 5471.0, 5428.0, 5685.0, 5458.0, 5579.0, 5392.0, 5497.0, 5394.0, 5492.0, 5416.0, 5703.0, 5418.0, 5616.0, 5580.0, 5546.0, 5524.0, 5686.0, 5376.0, 5664.0, 5510.0, 5268.0, 5679.0, 5366.0, 5430.0, 5467.0, 5639.0, 5466.0, 5389.0, 5311.0
11	5280	9	1	333	1	5689.0, 5638.0, 5494.0, 5471.0, 5513.0, 5546.0, 5385.0, 5440.0, 5258.0, 5667.0, 5561.0, 5515.0, 5663.0, 5675.0, 5277.0, 5654.0, 5536.0, 5414.0, 5690.0, 5542.0, 5659.0, 5558.0, 5407.0, 5409.0, 5469.0, 5720.0, 5362.0, 5668.0, 5641.0, 5462.0, 5481.0, 5396.0, 5265.0, 5634.0, 5418.0, 5298.0, 5478.0, 5436.0, 5460.0, 5504.0, 5370.0, 5455.0, 5392.0, 5268.0, 5657.0, 5312.0, 5487.0, 5671.0, 5695.0, 5510.0, 5534.0, 5666.0, 5427.0, 5587.0, 5550.0, 5711.0, 5464.0, 5272.0, 5610.0, 5493.0, 5603.0, 5391.0, 5276.0, 5438.0, 5679.0, 5336.0, 5378.0, 5309.0, 5620.0, 5617.0, 5383.0, 5461.0, 5288.0, 5313.0, 5351.0, 5560.0, 5507.0, 5333.0, 5517.0, 5637.0, 5386.0, 5356.0, 5521.0, 5380.0, 5270.0, 5398.0, 5631.0, 5482.0, 5294.0, 5524.0, 5389.0, 5335.0, 5590.0, 5377.0, 5326.0, 5564.0, 5688.0, 5476.0, 5622.0, 5334.0
12	5280	9	1	333	1	5372.0, 5436.0, 5675.0, 5461.0, 5293.0, 5625.0, 5672.0, 5589.0, 5601.0, 5668.0, 5606.0, 5680.0, 5536.0, 5351.0, 5718.0, 5327.0, 5580.0, 5632.0, 5399.0, 5267.0, 5328.0, 5441.0, 5423.0, 5432.0, 5510.0, 5545.0, 5615.0, 5357.0, 5567.0, 5576.0, 5259.0, 5613.0, 5636.0, 5499.0, 5654.0, 5325.0, 5382.0, 5428.0, 5673.0, 5401.0, 5631.0, 5280.0, 5698.0, 5414.0, 5471.0, 5335.0, 5255.0, 5273.0, 5416.0, 5332.0, 5555.0, 5492.0, 5628.0, 5265.0, 5671.0, 5271.0, 5434.0, 5469.0, 5612.0, 5453.0, 5583.0, 5270.0, 5278.0, 5475.0, 5448.0,

						5420.0, 5694.0, 5352.0, 5521.0, 5383.0, 5405.0, 5676.0, 5360.0, 5637.0, 5616.0, 5514.0, 5417.0, 5473.0, 5638.0, 5658.0, 5598.0, 5308.0, 5498.0, 5652.0, 5620.0, 5410.0, 5516.0, 5647.0, 5346.0, 5695.0, 5282.0, 5306.0, 5407.0, 5533.0, 5279.0, 5660.0, 5608.0, 5411.0, 5640.0, 5289.0
13	5280	9	1	333	1	5428.0, 5549.0, 5653.0, 5634.0, 5398.0, 5318.0, 5252.0, 5712.0, 5649.0, 5620.0, 5673.0, 5576.0, 5709.0, 5502.0, 5512.0, 5683.0, 5388.0, 5443.0, 5606.0, 5554.0, 5529.0, 5392.0, 5605.0, 5363.0, 5541.0, 5429.0, 5440.0, 5696.0, 5694.0, 5296.0, 5254.0, 5315.0, 5574.0, 5479.0, 5447.0, 5339.0, 5519.0, 5452.0, 5522.0, 5385.0, 5446.0, 5323.0, 5449.0, 5708.0, 5566.0, 5255.0, 5577.0, 5272.0, 5460.0, 5405.0, 5381.0, 5407.0, 5377.0, 5437.0, 5384.0, 5475.0, 5402.0, 5305.0, 5263.0, 5659.0, 5416.0, 5637.0, 5266.0, 5648.0, 5399.0, 5333.0, 5678.0, 5414.0, 5647.0, 5507.0, 5430.0, 5588.0, 5311.0, 5283.0, 5448.0, 5524.0, 5616.0, 5530.0, 5711.0, 5482.0, 5500.0, 5480.0, 5427.0, 5282.0, 5422.0, 5690.0, 5525.0, 5353.0, 5415.0, 5526.0, 5317.0, 5674.0, 5421.0, 5692.0, 5579.0, 5355.0, 5342.0, 5488.0, 5301.0, 5394.0
14	5280	9	1	333	1	5667.0, 5305.0, 5526.0, 5348.0, 5369.0, 5679.0, 5560.0, 5368.0, 5604.0, 5509.0, 5711.0, 5258.0, 5527.0, 5316.0, 5618.0, 5272.0, 5309.0, 5505.0, 5560.0, 5366.0, 5349.0, 5280.0, 5631.0, 5647.0, 5451.0, 5519.0, 5579.0, 5644.0, 5260.0, 5412.0, 5385.0, 5317.0, 5384.0, 5678.0, 5517.0, 5698.0, 5541.0, 5362.0, 5504.0, 5381.0, 5310.0, 5550.0, 5465.0, 5382.0, 5636.0, 5669.0, 5389.0, 5570.0, 5476.0, 5448.0, 5381.0, 5407.0, 5377.0, 5437.0, 5384.0, 5475.0, 5402.0, 5305.0, 5263.0, 5659.0, 5416.0, 5637.0, 5266.0, 5648.0, 5399.0, 5333.0, 5678.0, 5414.0, 5647.0, 5507.0, 5430.0, 5588.0, 5311.0, 5283.0, 5448.0,
15	5280	9	1	333	1	5274.0, 5527.0, 5269.0, 5638.0, 5314.0, 5524.0, 5279.0, 5398.0, 5652.0, 5505.0, 5429.0, 5653.0, 5687.0, 5588.0, 5427.0, 5375.0, 5661.0, 5688.0, 5277.0, 5540.0, 5276.0, 5599.0, 5529.0, 5519.0, 5299.0, 5374.0, 5340.0, 5626.0, 5272.0, 5445.0, 5696.0, 5395.0, 5296.0, 5667.0, 5260.0, 5270.0, 5365.0, 5456.0, 5435.0, 5594.0, 5722.0, 5702.0, 5639.0, 5541.0, 5433.0, 5670.0, 5504.0, 5480.0, 5348.0, 5583.0, 5549.0, 5391.0, 5393.0, 5554.0, 5677.0, 5335.0, 5704.0, 5439.0, 5576.0, 5462.0, 5409.0, 5438.0, 5494.0, 5555.0, 5498.0, 5715.0, 5292.0, 5571.0, 5582.0, 5470.0, 5510.0, 5656.0, 5557.0, 5664.0, 5412.0, 5386.0, 5359.0, 5720.0, 5420.0, 5717.0, 5328.0, 5413.0, 5477.0, 5306.0, 5600.0, 5351.0, 5539.0, 5370.0, 5581.0, 5453.0,

						5369.0, 5619.0, 5534.0, 5620.0, 5721.0, 5630.0, 5724.0, 5605.0, 5574.0, 5650.0
16	5280	9	1	333	1	5377.0, 5511.0, 5711.0, 5413.0, 5330.0, 5675.0, 5311.0, 5575.0, 5542.0, 5308.0, 5643.0, 5386.0, 5532.0, 5481.0, 5366.0, 5563.0, 5692.0, 5476.0, 5644.0, 5507.0, 5513.0, 5568.0, 5376.0, 5271.0, 5603.0, 5485.0, 5431.0, 5372.0, 5705.0, 5514.0, 5493.0, 5314.0, 5289.0, 5518.0, 5573.0, 5569.0, 5623.0, 5307.0, 5709.0, 5320.0, 5667.0, 5305.0, 5526.0, 5348.0, 5369.0, 5679.0, 5560.0, 5368.0, 5604.0, 5509.0, 5546.0, 5650.0, 5394.0, 5640.0, 5677.0, 5276.0, 5265.0, 5574.0, 5695.0, 5419.0, 5342.0, 5309.0, 5660.0, 5537.0, 5562.0, 5345.0, 5503.0, 5615.0, 5326.0, 5697.0, 5486.0, 5531.0, 5621.0, 5595.0, 5378.0, 5515.0, 5611.0, 5628.0, 5460.0, 5397.0, 5446.0, 5267.0, 5700.0, 5458.0, 5630.0, 5699.0, 5251.0, 5473.0, 5324.0, 5557.0, 5583.0, 5577.0, 5475.0, 5443.0, 5258.0, 5401.0, 5440.0, 5390.0, 5496.0, 5303.0
17	5280	9	1	333	1	5705.0, 5658.0, 5371.0, 5723.0, 5424.0, 5360.0, 5354.0, 5521.0, 5327.0, 5291.0, 5305.0, 5704.0, 5466.0, 5568.0, 5674.0, 5711.0, 5258.0, 5527.0, 5316.0, 5618.0, 5272.0, 5309.0, 5505.0, 5560.0, 5366.0, 5349.0, 5280.0, 5631.0, 5647.0, 5451.0, 5519.0, 5579.0, 5644.0, 5260.0, 5412.0, 5385.0, 5317.0, 5384.0, 5678.0, 5517.0, 5698.0, 5541.0, 5362.0, 5504.0, 5381.0, 5310.0, 5550.0, 5465.0, 5382.0, 5636.0, 5669.0, 5389.0, 5570.0, 5476.0, 5448.0, 5713.0, 5492.0, 5367.0, 5441.0, 5508.0, 5357.0, 5331.0, 5479.0, 5259.0, 5273.0, 5659.0, 5345.0, 5289.0, 5586.0, 5540.0, 5338.0, 5534.0, 5376.0, 5721.0, 5456.0, 5664.0, 5719.0, 5501.0, 5491.0, 5561.0, 5285.0, 5589.0, 5563.0, 5442.0, 5460.0, 5529.0, 5554.0, 5374.0, 5616.0, 5361.0, 5552.0, 5680.0, 5538.0, 5600.0, 5447.0, 5449.0, 5509.0, 5634.0, 5438.0, 5290.0
18	5280	9	1	333	1	5666.0, 5329.0, 5556.0, 5391.0, 5446.0, 5415.0, 5476.0, 5367.0, 5388.0, 5276.0, 5324.0, 5457.0, 5371.0, 5555.0, 5594.0, 5515.0, 5345.0, 5447.0, 5466.0, 5583.0, 5429.0, 5444.0, 5348.0, 5257.0, 5343.0, 5622.0, 5572.0, 5662.0, 5490.0, 5549.0, 5334.0, 5456.0, 5531.0, 5485.0, 5430.0, 5455.0, 5589.0, 5522.0, 5673.0, 5554.0, 5619.0, 5710.0, 5261.0, 5370.0, 5270.0, 5465.0, 5361.0, 5464.0, 5586.0, 5288.0, 5281.0, 5255.0, 5279.0, 5562.0, 5587.0, 5284.0, 5498.0, 5570.0, 5374.0, 5597.0, 5569.0, 5631.0, 5525.0, 5552.0, 5547.0, 5397.0, 5502.0, 5557.0, 5602.0, 5285.0, 5599.0, 5266.0, 5410.0, 5548.0, 5625.0, 5289.0, 5438.0, 5405.0, 5663.0, 5573.0, 5519.0, 5639.0, 5648.0, 5471.0, 5521.0, 5677.0, 5259.0, 5262.0, 5292.0, 5642.0,

						5294.0, 5664.0, 5649.0, 5654.0, 5714.0, 5656.0, 5665.0, 5368.0, 5291.0, 5402.0
19	5280	9	1	333	1	5427.0, 5700.0, 5600.0, 5309.0, 5457.0, 5466.0, 5342.0, 5475.0, 5389.0, 5619.0, 5489.0, 5386.0, 5589.0, 5335.0, 5484.0, 5616.0, 5421.0, 5351.0, 5519.0, 5450.0, 5318.0, 5721.0, 5384.0, 5578.0, 5295.0, 5257.0, 5258.0, 5637.0, 5438.0, 5449.0, 5299.0, 5674.0, 5394.0, 5311.0, 5494.0, 5708.0, 5719.0, 5336.0, 5479.0, 5547.0, 5649.0, 5551.0, 5500.0, 5444.0, 5574.0, 5294.0, 5378.0, 5286.0, 5590.0, 5696.0, 5584.0, 5571.0, 5401.0, 5555.0, 5658.0, 5526.0, 5715.0, 5508.0, 5523.0, 5609.0, 5474.0, 5591.0, 5448.0, 5440.0, 5535.0, 5441.0, 5405.0, 5463.0, 5608.0, 5626.0, 5422.0, 5280.0, 5278.0, 5338.0, 5620.0, 5471.0, 5566.0, 5393.0, 5603.0, 5565.0, 5548.0, 5704.0, 5298.0, 5254.0, 5452.0, 5365.0, 5300.0, 5262.0, 5532.0, 5655.0, 5492.0, 5607.0, 5640.0, 5635.0, 5660.0, 5256.0, 5431.0, 5373.0, 5252.0, 5334.0
20	5280	9	1	333	1	5260.0, 5578.0, 5720.0, 5308.0, 5363.0, 5350.0, 5414.0, 5437.0, 5719.0, 5399.0, 5538.0, 5476.0, 5529.0, 5541.0, 5574.0, 5251.0, 5409.0, 5660.0, 5703.0, 5309.0, 5434.0, 5480.0, 5349.0, 5266.0, 5482.0, 5312.0, 5643.0, 5385.0, 5466.0, 5681.0, 5301.0, 5664.0, 5257.0, 5433.0, 5471.0, 5388.0, 5372.0, 5715.0, 5431.0, 5490.0, 5544.0, 5423.0, 5296.0, 5609.0, 5535.0, 5496.0, 5427.0, 5454.0, 5717.0, 5590.0, 5448.0, 5402.0, 5569.0, 5551.0, 5340.0, 5460.0, 5545.0, 5426.0, 5514.0, 5421.0, 5576.0, 5722.0, 5605.0, 5555.0, 5327.0, 5391.0, 5478.0, 5575.0, 5485.0, 5553.0, 5430.0, 5379.0, 5304.0, 5559.0, 5321.0, 5335.0, 5290.0, 5272.0, 5690.0, 5360.0, 5615.0, 5392.0, 5617.0, 5542.0, 5436.0, 5390.0, 5635.0, 5650.0, 5707.0, 5267.0, 5451.0, 5383.0, 5359.0, 5306.0, 5641.0, 5548.0, 5407.0, 5620.0, 5420.0, 5488.0
21	5280	9	1	333	1	5439.0, 5664.0, 5345.0, 5422.0, 5389.0, 5374.0, 5696.0, 5296.0, 5371.0, 5339.0, 5333.0, 5346.0, 5583.0, 5442.0, 5695.0, 5710.0, 5312.0, 5278.0, 5718.0, 5297.0, 5473.0, 5463.0, 5609.0, 5281.0, 5264.0, 5269.0, 5581.0, 5344.0, 5411.0, 5322.0, 5596.0, 5706.0, 5334.0, 5406.0, 5298.0, 5425.0, 5283.0, 5683.0, 5271.0, 5698.0, 5658.0, 5436.0, 5628.0, 5493.0, 5603.0, 5467.0, 5618.0, 5444.0, 5703.0, 5715.0, 5357.0, 5319.0, 5645.0, 5574.0, 5494.0, 5671.0, 5568.0, 5474.0, 5279.0, 5722.0, 5478.0, 5370.0, 5260.0, 5288.0, 5608.0, 5670.0, 5318.0, 5657.0, 5606.0, 5419.0, 5562.0, 5514.0, 5458.0, 5316.0, 5267.0, 5503.0, 5433.0, 5598.0, 5456.0, 5708.0, 5500.0, 5396.0, 5259.0, 5573.0, 5491.0, 5317.0, 5306.0, 5621.0, 5687.0, 5352.0,

						5516.0, 5631.0, 5280.0, 5630.0, 5519.0, 5689.0, 5292.0, 5707.0, 5466.0, 5556.0
22	5280	9	1	333	1	5475.0, 5708.0, 5636.0, 5492.0, 5663.0, 5407.0, 5682.0, 5265.0, 5619.0, 5322.0, 5287.0, 5723.0, 5319.0, 5655.0, 5515.0, 5428.0, 5402.0, 5691.0, 5594.0, 5441.0, 5633.0, 5559.0, 5702.0, 5670.0, 5610.0, 5674.0, 5463.0, 5320.0, 5664.0, 5706.0, 5593.0, 5408.0, 5296.0, 5535.0, 5392.0, 5343.0, 5449.0, 5430.0, 5602.0, 5553.0, 5458.0, 5388.0, 5390.0, 5614.0, 5330.0, 5720.0, 5637.0, 5329.0, 5261.0, 5447.0, 5486.0, 5496.0, 5675.0, 5266.0, 5711.0, 5471.0, 5639.0, 5534.0, 5592.0, 5311.0, 5395.0, 5478.0, 5327.0, 5557.0, 5568.0, 5671.0, 5552.0, 5250.0, 5528.0, 5709.0, 5378.0, 5606.0, 5665.0, 5485.0, 5685.0, 5464.0, 5545.0, 5459.0, 5337.0, 5425.0, 5350.0, 5634.0, 5520.0, 5474.0, 5317.0, 5582.0, 5446.0, 5501.0, 5427.0, 5271.0, 5686.0, 5689.0, 5254.0, 5724.0, 5448.0, 5300.0, 5364.0, 5658.0, 5577.0, 5403.0
23	5280	9	1	333	1	5368.0, 5488.0, 5502.0, 5626.0, 5655.0, 5392.0, 5490.0, 5402.0, 5582.0, 5315.0, 5593.0, 5561.0, 5267.0, 5316.0, 5724.0, 5372.0, 5317.0, 5471.0, 5411.0, 5424.0, 5602.0, 5631.0, 5650.0, 5321.0, 5636.0, 5493.0, 5494.0, 5313.0, 5306.0, 5505.0, 5461.0, 5436.0, 5600.0, 5615.0, 5282.0, 5382.0, 5473.0, 5326.0, 5283.0, 5545.0, 5401.0, 5434.0, 5383.0, 5349.0, 5638.0, 5416.0, 5648.0, 5629.0, 5406.0, 5653.0, 5390.0, 5673.0, 5324.0, 5716.0, 5506.0, 5300.0, 5472.0, 5266.0, 5542.0, 5297.0, 5686.0, 5641.0, 5269.0, 5357.0, 5441.0, 5719.0, 5576.0, 5338.0, 5575.0, 5571.0, 5263.0, 5271.0, 5645.0, 5625.0, 5369.0, 5660.0, 5532.0, 5574.0, 5592.0, 5536.0, 5291.0, 5320.0, 5446.0, 5597.0, 5339.0, 5557.0, 5353.0, 5322.0, 5348.0, 5698.0, 5608.0, 5256.0, 5319.0, 5483.0, 5572.0, 5337.0, 5510.0, 5351.0, 5611.0, 5619.0
24	5280	9	1	333	1	5270.0, 5512.0, 5667.0, 5719.0, 5274.0, 5367.0, 5276.0, 5450.0, 5678.0, 5404.0, 5413.0, 5691.0, 5643.0, 5518.0, 5612.0, 5508.0, 5498.0, 5252.0, 5503.0, 5261.0, 5609.0, 5443.0, 5255.0, 5306.0, 5467.0, 5310.0, 5653.0, 5266.0, 5654.0, 5344.0, 5511.0, 5251.0, 5578.0, 5431.0, 5440.0, 5319.0, 5384.0, 5254.0, 5661.0, 5429.0, 5564.0, 5665.0, 5688.0, 5301.0, 5352.0, 5357.0, 5416.0, 5338.0, 5303.0, 5666.0, 5408.0, 5710.0, 5332.0, 5611.0, 5460.0, 5418.0, 5307.0, 5383.0, 5507.0, 5724.0, 5470.0, 5539.0, 5624.0, 5712.0, 5476.0, 5333.0, 5670.0, 5358.0, 5537.0, 5506.0, 5335.0, 5693.0, 5637.0, 5606.0, 5644.0, 5267.0, 5377.0, 5290.0, 5273.0, 5275.0, 5329.0, 5668.0, 5403.0, 5640.0, 5497.0, 5528.0, 5396.0, 5348.0, 5694.0, 5610.0,

						5563.0, 5401.0, 5674.0, 5617.0, 5572.0, 5715.0, 5584.0, 5279.0, 5452.0, 5562.0
25	5280	9	1	333	1	5447.0, 5399.0, 5708.0, 5286.0, 5428.0, 5357.0, 5633.0, 5410.0, 5267.0, 5571.0, 5333.0, 5351.0, 5488.0, 5340.0, 5590.0, 5601.0, 5532.0, 5640.0, 5371.0, 5470.0, 5623.0, 5508.0, 5678.0, 5432.0, 5275.0, 5408.0, 5635.0, 5709.0, 5291.0, 5307.0, 5483.0, 5330.0, 5438.0, 5615.0, 5503.0, 5342.0, 5277.0, 5624.0, 5549.0, 5314.0, 5521.0, 5701.0, 5401.0, 5612.0, 5573.0, 5674.0, 5444.0, 5261.0, 5695.0, 5400.0, 5325.0, 5617.0, 5280.0, 5450.0, 5714.0, 5464.0, 5356.0, 5711.0, 5588.0, 5446.0, 5653.0, 5481.0, 5641.0, 5440.0, 5610.0, 5705.0, 5591.0, 5710.0, 5533.0, 5435.0, 5523.0, 5454.0, 5365.0, 5473.0, 5251.0, 5279.0, 5724.0, 5315.0, 5511.0, 5385.0, 5622.0, 5699.0, 5519.0, 5554.0, 5282.0, 5614.0, 5569.0, 5359.0, 5722.0, 5383.0, 5381.0, 5517.0, 5409.0, 5556.0, 5581.0, 5706.0, 5326.0, 5661.0, 5321.0, 5570.0
26	5280	9	1	333	1	5473.0, 5563.0, 5347.0, 5598.0, 5254.0, 5536.0, 5509.0, 5393.0, 5664.0, 5271.0, 5545.0, 5679.0, 5675.0, 5600.0, 5661.0, 5644.0, 5533.0, 5349.0, 5672.0, 5549.0, 5358.0, 5649.0, 5333.0, 5428.0, 5611.0, 5418.0, 5520.0, 5577.0, 5663.0, 5293.0, 5555.0, 5612.0, 5294.0, 5295.0, 5375.0, 5397.0, 5618.0, 5478.0, 5594.0, 5251.0, 5279.0, 5281.0, 5434.0, 5481.0, 5425.0, 5609.0, 5407.0, 5631.0, 5371.0, 5298.0, 5591.0, 5530.0, 5634.0, 5359.0, 5529.0, 5627.0, 5317.0, 5466.0, 5655.0, 5304.0, 5422.0, 5632.0, 5560.0, 5402.0, 5417.0, 5550.0, 5299.0, 5527.0, 5658.0, 5691.0, 5544.0, 5326.0, 5665.0, 5385.0, 5515.0, 5411.0, 5314.0, 5674.0, 5603.0, 5374.0, 5338.0, 5413.0, 5671.0, 5429.0, 5302.0, 5490.0, 5442.0, 5487.0, 5430.0, 5652.0, 5373.0, 5462.0, 5381.0, 5711.0, 5319.0, 5676.0, 5692.0, 5477.0, 5721.0, 5389.0
27	5280	9	1	333	1	5583.0, 5591.0, 5338.0, 5328.0, 5444.0, 5321.0, 5623.0, 5550.0, 5449.0, 5401.0, 5252.0, 5280.0, 5457.0, 5392.0, 5693.0, 5436.0, 5670.0, 5555.0, 5710.0, 5603.0, 5682.0, 5481.0, 5269.0, 5379.0, 5517.0, 5518.0, 5259.0, 5484.0, 5689.0, 5654.0, 5594.0, 5356.0, 5316.0, 5721.0, 5647.0, 5276.0, 5527.0, 5331.0, 5386.0, 5637.0, 5421.0, 5504.0, 5282.0, 5262.0, 5592.0, 5277.0, 5462.0, 5387.0, 5584.0, 5447.0, 5291.0, 5664.0, 5494.0, 5650.0, 5575.0, 5255.0, 5632.0, 5491.0, 5615.0, 5561.0, 5406.0, 5488.0, 5519.0, 5610.0, 5704.0, 5342.0, 5382.0, 5611.0, 5545.0, 5388.0, 5318.0, 5661.0, 5437.0, 5569.0, 5453.0, 5373.0, 5701.0, 5439.0, 5690.0, 5600.0, 5347.0, 5417.0, 5404.0, 5348.0, 5304.0, 5355.0, 5465.0, 5334.0, 5415.0, 5639.0,

						5587.0, 5656.0, 5471.0, 5692.0, 5506.0, 5628.0, 5565.0, 5532.0, 5310.0, 5552.0
28	5280	9	1	333	1	5310.0, 5443.0, 5336.0, 5469.0, 5261.0, 5558.0, 5424.0, 5293.0, 5511.0, 5271.0, 5625.0, 5571.0, 5656.0, 5618.0, 5320.0, 5458.0, 5692.0, 5360.0, 5394.0, 5604.0, 5300.0, 5316.0, 5569.0, 5500.0, 5501.0, 5589.0, 5518.0, 5630.0, 5643.0, 5347.0, 5697.0, 5465.0, 5644.0, 5593.0, 5417.0, 5303.0, 5257.0, 5364.0, 5425.0, 5513.0, 5420.0, 5680.0, 5326.0, 5499.0, 5580.0, 5375.0, 5495.0, 5585.0, 5474.0, 5521.0, 5698.0, 5494.0, 5431.0, 5579.0, 5606.0, 5361.0, 5620.0, 5446.0, 5421.0, 5657.0, 5278.0, 5646.0, 5498.0, 5309.0, 5332.0, 5638.0, 5615.0, 5369.0, 5397.0, 5627.0, 5479.0, 5659.0, 5563.0, 5283.0, 5329.0, 5442.0, 5330.0, 5660.0, 5415.0, 5398.0, 5322.0, 5333.0, 5613.0, 5392.0, 5586.0, 5349.0, 5533.0, 5447.0, 5481.0, 5573.0, 5475.0, 5675.0, 5581.0, 5380.0, 5662.0, 5262.0, 5267.0, 5438.0, 5451.0, 5305.0
29	5280	9	1	333	1	5709.0, 5260.0, 5605.0, 5714.0, 5365.0, 5355.0, 5692.0, 5721.0, 5716.0, 5551.0, 5594.0, 5590.0, 5347.0, 5450.0, 5541.0, 5402.0, 5339.0, 5407.0, 5544.0, 5420.0, 5510.0, 5546.0, 5642.0, 5694.0, 5468.0, 5352.0, 5319.0, 5620.0, 5325.0, 5619.0, 5277.0, 5483.0, 5366.0, 5408.0, 5393.0, 5381.0, 5613.0, 5332.0, 5303.0, 5523.0, 5362.0, 5539.0, 5497.0, 5384.0, 5585.0, 5375.0, 5562.0, 5532.0, 5549.0, 5306.0, 5369.0, 5346.0, 5439.0, 5390.0, 5254.0, 5608.0, 5708.0, 5661.0, 5380.0, 5301.0, 5519.0, 5281.0, 5697.0, 5565.0, 5635.0, 5639.0, 5273.0, 5575.0, 5512.0, 5593.0, 5526.0, 5628.0, 5324.0, 5363.0, 5358.0, 5517.0, 5504.0, 5470.0, 5530.0, 5398.0, 5514.0, 5660.0, 5360.0, 5345.0, 5677.0, 5582.0, 5597.0, 5641.0, 5713.0, 5461.0, 5300.0, 5409.0, 5627.0, 5354.0, 5290.0, 5568.0, 5625.0, 5256.0, 5456.0, 5580.0
30	5280	9	1	333	1	5588.0, 5290.0, 5668.0, 5713.0, 5455.0, 5438.0, 5655.0, 5540.0, 5678.0, 5416.0, 5710.0, 5410.0, 5640.0, 5562.0, 5603.0, 5613.0, 5497.0, 5714.0, 5320.0, 5288.0, 5510.0, 5345.0, 5647.0, 5521.0, 5677.0, 5364.0, 5350.0, 5593.0, 5490.0, 5432.0, 5478.0, 5451.0, 5601.0, 5447.0, 5347.0, 5695.0, 5591.0, 5427.0, 5606.0, 5484.0, 5267.0, 5256.0, 5618.0, 5282.0, 5334.0, 5352.0, 5631.0, 5690.0, 5704.0, 5319.0, 5709.0, 5479.0, 5718.0, 5543.0, 5607.0, 5525.0, 5376.0, 5600.0, 5417.0, 5358.0, 5295.0, 5597.0, 5609.0, 5331.0, 5312.0, 5560.0, 5346.0, 5342.0, 5431.0, 5458.0, 5291.0, 5449.0, 5657.0, 5554.0, 5546.0, 5424.0, 5506.0, 5536.0, 5708.0, 5669.0, 5542.0, 5261.0, 5286.0, 5555.0, 5561.0, 5399.0, 5367.0, 5496.0, 5412.0, 5340.0,

						5712.0, 5652.0, 5473.0, 5302.0, 5467.0, 5441.0, 5717.0, 5534.0, 5390.0, 5461.0

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	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:

5270MHz

Radar Type 1A Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	92	1	578	1
2	5270	102	1	518	1
3	5270	67	1	798	1
4	5270	89	1	598	1
5	5270	95	1	558	1
6	5270	58	1	918	1
7	5270	65	1	818	1
8	5270	57	1	938	1
9	5270	59	1	898	1
10	5270	18	1	3066	1
11	5270	63	1	838	1
12	5270	86	1	618	1
13	5270	70	1	758	1
14	5270	99	1	538	1
15	5270	81	1	658	1
Detection Percentage: 100 % (>60%)					

Radar Type 1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	24	1	2243	1
2	5270	26	1	2052	1
3	5270	20	1	2712	1
4	5270	25	1	2158	1
5	5270	21	1	2601	1
6	5270	93	1	573	1
7	5270	54	1	987	1
8	5270	19	1	2782	1
9	5270	22	1	2464	1
10	5270	40	1	1325	1
11	5270	32	1	1699	1
12	5270	41	1	1302	1
13	5270	21	1	2560	1
14	5270	21	1	2552	1
15	5270	18	1	2938	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	4	206	1
2	5270	28	4.2	155	1
3	5270	29	1.1	216	1
4	5270	27	1.2	184	1
5	5270	29	5	189	1
6	5270	24	4.3	154	1
7	5270	25	1.4	178	1
8	5270	25	4.6	180	1
9	5270	28	4.8	219	1
10	5270	26	3.2	174	1
11	5270	28	1.5	171	1
12	5270	27	3.3	168	1
13	5270	24	2.2	157	1
14	5270	23	1.7	222	1
15	5270	26	4.6	187	1
16	5270	29	1.3	180	1
17	5270	27	4.6	213	1
18	5270	29	2.3	159	1
19	5270	27	1.4	223	1
20	5270	27	2.3	211	1
21	5270	29	4.5	188	1
22	5270	24	2.6	168	1
23	5270	24	3.2	201	1
24	5270	25	3.7	228	1
25	5270	26	4.9	172	1
26	5270	26	4.5	154	1
27	5270	28	4.2	174	1
28	5270	24	4.8	214	1
29	5270	27	1.2	152	1
30	5270	29	3.6	173	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	5270	16	9.3	442	1
2	5270	17	6.9	367	1
3	5270	16	8.9	245	1
4	5270	16	7.4	347	1
5	5270	17	7	485	1
6	5270	18	9.4	225	1
7	5270	16	7.6	313	1
8	5270	17	8.4	472	1
9	5270	17	8.6	362	1
10	5270	16	7.7	338	1
11	5270	17	7.3	425	1
12	5270	17	9.3	272	1
13	5270	18	9.5	233	1
14	5270	16	7.6	286	1
15	5270	18	6.6	314	1
16	5270	18	8.9	441	1
17	5270	17	6	272	1
18	5270	18	6.5	458	1
19	5270	17	7.6	258	1
20	5270	17	7.7	257	1
21	5270	17	8.4	223	1
22	5270	18	6.6	217	1
23	5270	16	9.8	365	1
24	5270	16	7.5	218	1
25	5270	16	8.1	410	1
26	5270	17	9.7	484	1
27	5270	16	6.7	279	1
28	5270	17	6.4	243	1
29	5270	18	6.8	205	1
30	5270	16	7.9	394	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	5270	13	16.9	380	1
2	5270	13	17	306	1
3	5270	16	15.8	388	1
4	5270	16	16.2	208	1
5	5270	16	14.1	400	1
6	5270	13	19.9	343	1
7	5270	14	12.3	418	1
8	5270	13	12.1	407	1
9	5270	15	13.6	314	1
10	5270	12	20	375	1
11	5270	13	17.5	462	1
12	5270	15	17.4	218	1
13	5270	15	16	456	1
14	5270	16	18.8	458	1
15	5270	12	12.5	458	1
16	5270	13	15.7	295	1
17	5270	12	12.2	310	1
18	5270	15	18.2	251	1
19	5270	14	18.8	304	1
20	5270	14	11.5	200	1
21	5270	16	19.5	335	1
22	5270	16	15.5	476	1
23	5270	13	17.1	365	1
24	5270	12	13	386	1
25	5270	15	11.2	270	1
26	5270	12	19.6	453	1
27	5270	16	14.6	443	1
28	5270	12	19.6	394	1
29	5270	15	11.1	284	1
30	5270	12	14.4	239	1
Detection Percentage: 100 % (>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	1	14	80.4	/	/	0.563586	1
1	1	14	56.7	/	/	0.817614	
2	2	14	68.8	1235	/	1.931926	
3	2	14	72.6	1844	/	2.649887	
4	2	14	56.8	1446	/	3.687838	
5	2	14	97.1	1571	/	4.225753	
6	2	14	50.5	1485	/	4.820188	
7	2	14	88.9	1342	/	5.806031	
8	2	14	88.5	1432	/	6.038547	
9	2	14	80.2	1646	/	7.382418	
10	1	14	72.4	/	/	7.937847	
11	1	14	57.9	/	/	8.987513	
12	2	14	86.2	1375	/	9.593576	
13	3	14	96.2	1529	1746	10.35803	
14	2	14	63.3	1691	/	11.05269	
15	3	14	56.1	1532	1041	11.45666	

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	2	5	55.6	1695	/	1.295514	1
1	1	5	72.3	/	/	1.985409	
2	1	5	86.6	/	/	3.378432	
3	1	5	86.2	/	/	4.061494	
4	1	5	95.8	/	/	5.955864	
5	2	5	65.6	1548	/	7.741536	
6	2	5	95	1335	/	9.026934	
7	2	5	76.2	1766	/	9.668061	
8	1	5	90.5	/	/	11.1137	

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	15	66.9	1054	1250	0.744443	1
1	1	15	97.6	/	/	1.103699	
2	2	15	91.4	1823	/	1.994782	
3	3	15	93.2	1633	1251	2.963173	
4	3	15	75.3	1105	1748	4.203733	
5	2	15	67.6	1491	/	4.475928	
6	1	15	50.2	/	/	5.408991	
7	3	15	57.8	1640	1441	6.44996	
8	1	15	99.9	/	/	7.59797	
9	3	15	89.1	1396	1854	8.561708	
10	2	15	79	1887	/	9.066657	
11	1	15	95.4	/	/	9.894205	
12	1	15	50.6	/	/	10.55543	
13	1	15	50.3	/	/	11.20084	

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	3	8	70.6	1334	1406	0.657181	1
1	2	8	63.7	1551	/	1.310382	
2	3	8	67.3	1856	1853	1.983329	
3	2	8	96.2	1267	/	2.426752	
4	2	8	75.4	1578	/	3.314383	
5	2	8	89.8	1204	/	4.788652	
6	1	8	83.7	/	/	5.512654	
7	3	8	98.1	1065	1891	5.816417	
8	2	8	50.7	1442	/	6.920994	
9	2	8	71.5	1710	/	7.647283	
10	2	8	91.3	1833	/	8.330801	
11	1	8	77	/	/	8.863525	
12	2	8	73.9	1248	/	10.12355	
13	2	8	55.7	1750	/	10.49846	
14	1	8	90.9	/	/	11.63659	

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	2	7	99.2	1982	/	0.212729	1
1	3	7	51.2	1618	1040	0.814016	
2	2	7	83.3	1660	/	1.553787	
3	3	7	77.9	1757	1685	2.22436	
4	1	7	63.7	/	/	2.83425	
5	3	7	69.1	1920	1480	3.456598	
6	3	7	52.9	1989	1639	3.689561	
7	3	7	72.8	1330	1571	4.351131	
8	2	7	65.2	1750	/	5.282738	
9	1	7	66.2	/	/	5.511351	
10	1	7	93	/	/	6.209425	
11	2	7	62.6	1976	/	7.128903	
12	2	7	95.8	1818	/	7.279927	
13	2	7	70.4	1271	/	8.082619	
14	2	7	79.5	1211	/	8.642849	
15	2	7	78.6	1024	/	9.20301	
16	3	7	75.2	1103	1673	9.808792	
17	2	7	81	1667	/	10.72853	
18	3	7	83.2	1344	1918	11.01186	
19	3	7	57.4	1646	1416	11.62618	

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	2	12	61.3	1851	/	0.692173	1
1	2	12	93.4	1850	/	2.275728	
2	1	12	89.6	/	/	2.701496	
3	2	12	83.5	1828	/	4.603773	
4	2	12	92.8	1606	/	5.743456	
5	3	12	84.6	1269	1349	6.028042	
6	2	12	56.1	1021	/	8.154883	
7	2	12	83.1	1809	/	9.476586	
8	1	12	66.8	/	/	9.893205	
9	2	12	70.1	1383	/	11.79455	

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	16	85.6	1837	/	0.083568	1
1	2	16	58.3	1242	/	0.911411	
2	2	16	84	1108	/	1.553069	
3	2	16	57.1	1756	/	2.618992	
4	2	16	75.8	1712	/	2.753929	
5	2	16	90.9	1927	/	3.932674	
6	1	16	98.3	/	/	4.52663	
7	2	16	83.3	1918	/	4.688181	
8	2	16	65.3	1403	/	5.826666	
9	2	16	81	1531	/	6.274987	
10	2	16	70.2	1051	/	7.176538	
11	1	16	68.3	/	/	7.944257	
12	2	16	78.6	1675	/	8.258638	
13	1	16	57.3	/	/	9.002439	
14	2	16	97.7	1029	/	9.739675	
15	2	16	72.1	1756	/	10.27292	
16	2	16	69.4	1011	/	10.92204	
17	2	16	64.9	1555	/	11.39518	

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	2	12	79.3	1309	/	0.582266	1
1	1	12	92.2	/	/	1.533169	
2	1	12	81.2	/	/	1.843051	
3	3	12	62.6	1418	1292	2.58582	
4	3	12	65.6	1137	1040	3.688101	
5	2	12	61.2	1494	/	4.099006	
6	2	12	62.3	1251	/	5.10218	
7	2	12	94.3	1492	/	6.264973	
8	3	12	78.4	1023	1756	6.682125	
9	3	12	53.9	1011	1617	7.617821	
10	2	12	81.3	1029	/	8.17813	
11	2	12	67.9	1153	/	9.56465	
12	3	12	98.9	1837	1662	9.950387	
13	1	12	51.8	/	/	10.60707	
14	1	12	97	/	/	11.72391	

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	7	86.9	1945	/	0.608206	
1	3	7	79.6	1433	1392	0.963509	
2	1	7	50.7	/	/	1.654035	
3	3	7	53.1	1144	1668	1.97622	
4	2	7	59.8	1884	/	2.532719	
5	2	7	76.2	1857	/	3.727032	
6	2	7	82.6	1799	/	4.276891	
7	1	7	59.1	/	/	4.916336	
8	2	7	83.2	1997	/	5.407011	
9	3	7	78.8	1633	1750	6.255471	1
10	1	7	55.6	/	/	6.353555	
11	3	7	50.6	1903	1014	7.131728	
12	1	7	79.8	/	/	8.139054	
13	3	7	97.7	1090	1278	8.673564	
14	1	7	53.1	/	/	9.213957	
15	2	7	91.8	1869	/	9.756832	
16	2	7	95.2	1199	/	10.64935	
17	3	7	70.9	1872	1652	10.83027	
18	1	7	73	/	/	11.788	

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	14	51.5	/	/	0.104242	
1	2	14	97.6	1608	/	2.021194	
2	2	14	80.4	1850	/	3.75718	
3	2	14	52.4	1993	/	4.489288	
4	2	14	84.1	1127	/	5.631228	1
5	3	14	67.7	1490	1623	7.227358	
6	2	14	83.5	1502	/	8.588847	
7	2	14	57.7	1993	/	10.14722	
8	3	14	94.8	1137	1492	11.07966	

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	1	18	97.1	/	/	0.376921	1
1	3	18	96.1	1789	1598	0.813813	
2	2	18	52.9	1043	/	2.309919	
3	2	18	78.3	1227	/	2.757814	
4	1	18	77.8	/	/	3.926747	
5	2	18	83.6	1306	/	4.053626	
6	2	18	51.8	1600	/	4.896877	
7	3	18	62.2	1602	1145	5.978413	
8	1	18	99.8	/	/	6.832576	
9	2	18	62.3	1930	/	7.875676	
10	2	18	57.6	1028	/	8.724087	
11	1	18	62.8	/	/	9.084978	
12	3	18	90.8	1794	1658	10.0331	
13	2	18	79.6	1157	/	11.09976	
14	2	18	99.1	1667	/	11.41801	

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	1	9	88.2	/	/	0.578733	1
1	1	9	92.2	/	/	1.290834	
2	2	9	89.6	1401	/	2.140111	
3	2	9	68.3	1175	/	2.98415	
4	1	9	90	/	/	3.221162	
5	3	9	53.5	1184	1052	4.266277	
6	2	9	96.3	1625	/	5.129001	
7	2	9	83.7	1394	/	5.27928	
8	2	9	95.4	1408	/	6.076567	
9	1	9	61.5	/	/	6.80644	
10	2	9	64.5	1928	/	7.934354	
11	3	9	75.7	1690	1532	8.330013	
12	1	9	72.1	/	/	9.263191	
13	2	9	83.7	1372	/	10.14232	
14	3	9	85.4	1243	1767	10.96273	
15	2	9	82.6	1322	/	11.76846	

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	16	97.8	/	/	0.628437	1
1	1	16	67.7	/	/	1.291512	
2	3	16	89.6	1286	1065	1.544406	
3	2	16	88.5	1039	/	2.660041	
4	3	16	79.5	1791	1241	2.718078	
5	2	16	73	1062	/	3.792471	
6	1	16	52.3	/	/	4.433475	
7	1	16	61.4	/	/	4.675791	
8	3	16	50.9	1825	1916	5.705624	
9	2	16	76.3	1115	/	6.156055	
10	2	16	57.7	1381	/	6.671087	
11	2	16	81.9	1083	/	7.713261	
12	2	16	97.9	1193	/	8.404655	
13	1	16	67.9	/	/	8.726046	
14	1	16	87.3	/	/	9.81616	
15	3	16	94.9	1103	1967	10.44192	
16	2	16	98.9	1702	/	10.92198	
17	3	16	84	1097	1913	11.80684	

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	2	14	51.8	1650	/	0.682697	1
1	2	14	80.3	1320	/	1.020131	
2	1	14	77.3	/	/	1.556148	
3	2	14	69.5	1823	/	2.386843	
4	2	14	98.6	1562	/	3.292547	
5	2	14	72.7	1736	/	4.298096	
6	2	14	57.9	1827	/	5.058846	
7	1	14	52.7	/	/	5.588992	
8	3	14	81.4	1567	1657	6.30308	
9	3	14	92.4	1342	1304	7.12786	
10	1	14	66.9	/	/	7.587721	
11	2	14	78.4	1665	/	8.684306	
12	2	14	98.9	1218	/	9.096803	
13	1	14	62.2	/	/	10.15417	
14	2	14	85.2	1816	/	11.04394	
15	3	14	51.9	1406	1766	11.86725	

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	1	10	51.2	/	/	0.03304	1
1	2	10	64.7	1384	/	1.736511	
2	1	10	84.9	/	/	1.909778	
3	1	10	86.1	/	/	3.256687	
4	2	10	60.9	1929	/	3.966044	
5	1	10	97	/	/	4.641571	
6	3	10	79.5	1933	1520	6.131496	
7	1	10	91.7	/	/	7.175274	
8	1	10	97.7	/	/	7.472848	
9	3	10	99	1311	1030	9.210707	
10	3	10	93.3	1802	1815	9.344241	
11	1	10	96.6	/	/	10.66558	
12	1	10	82.2	/	/	11.11311	

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	17	91.5	1216	/	0.402002	1
1	2	17	56.7	1909	/	1.627432	
2	2	17	79.1	1506	/	2.399188	
3	2	17	93.8	1749	/	3.126094	
4	2	17	88.1	1338	/	3.499939	
5	2	17	54.2	1058	/	4.80478	
6	3	17	61.7	1258	1615	5.960693	
7	2	17	73.5	1779	/	6.34115	
8	2	17	94.7	1857	/	7.22891	
9	3	17	94	1193	1335	8.230515	
10	2	17	90.7	1881	/	9.264734	
11	1	17	69.9	/	/	10.16028	
12	1	17	98.5	/	/	10.36609	
13	2	17	59.3	1233	/	11.32776	

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	11	68	1176	/	0.476657	1
1	1	11	92.6	/	/	2.206394	
2	1	11	90.9	/	/	2.804182	
3	3	11	57.9	1550	1014	4.964342	
4	1	11	78.1	/	/	6.032549	
5	3	11	81.8	1971	1947	6.714746	
6	2	11	62.2	1624	/	8.992989	
7	2	11	74.9	1675	/	9.341173	
8	2	11	65.8	1247	/	11.24736	

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	3	13	60.7	1204	1371	0.447046	1
1	3	13	98.2	1246	1274	1.98282	
2	1	13	62.5	/	/	2.06586	
3	2	13	89.4	1116	/	3.574052	
4	2	13	70.6	1076	/	4.912091	
5	1	13	58.9	/	/	5.114254	
6	2	13	87.8	1414	/	6.02396	
7	1	13	87.2	/	/	7.919005	
8	1	13	81.9	/	/	8.283976	
9	3	13	76.2	1279	1068	9.273	
10	3	13	91	1241	1267	10.49312	
11	2	13	65.3	1007	/	11.72712	

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	19	83.1	1634	/	0.940297	1
1	1	19	56.8	/	/	1.313817	
2	2	19	84.7	1459	/	2.968524	
3	2	19	59.7	1512	/	3.929508	
4	2	19	73.1	1916	/	4.304791	
5	2	19	83.6	1934	/	5.316995	
6	1	19	54.6	/	/	6.875808	
7	1	19	76.5	/	/	7.0218	
8	2	19	95.6	1811	/	8.717233	
9	2	19	98.5	1851	/	9.819763	
10	2	19	91.8	1934	/	10.45174	
11	1	19	80.8	/	/	11.65041	

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	13	91	1393	1204	0.099128	1
1	3	13	89.2	1999	1816	1.155074	
2	2	13	99.6	1624	/	1.369597	
3	2	13	90.2	1643	/	2.105752	
4	1	13	73.3	/	/	2.863673	
5	2	13	54.6	1637	/	3.742809	
6	1	13	88.3	/	/	4.132226	
7	3	13	88.5	1339	1420	5.239929	
8	2	13	50.1	1070	/	5.717079	
9	3	13	90.1	1198	1068	6.243007	
10	2	13	50.8	1957	/	6.691958	
11	1	13	66.8	/	/	7.773416	
12	3	13	57.4	1140	1567	8.130917	
13	2	13	58.6	1471	/	8.76897	
14	1	13	69	/	/	9.899463	
15	2	13	62.4	1733	/	10.06367	
16	2	13	93.9	1145	/	11.00357	
17	2	13	63.1	1055	/	11.6897	

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	6	83.8	/	/	0.129124	1
1	1	6	56.8	/	/	0.930907	
2	1	6	55.9	/	/	1.435556	
3	2	6	62	1034	/	2.413735	
4	2	6	90.2	1805	/	3.292025	
5	1	6	74.3	/	/	3.795103	
6	2	6	75.4	1450	/	4.174201	
7	3	6	52.2	1397	1090	5.001791	
8	2	6	54.6	1738	/	5.957773	
9	2	6	97.1	1491	/	6.154509	
10	2	6	69.1	1005	/	6.746877	
11	2	6	74.4	1194	/	7.915434	
12	3	6	74.2	1869	1919	8.000143	
13	1	6	57.5	/	/	9.304942	
14	3	6	71.1	1717	1121	9.702956	
15	2	6	93.3	1192	/	10.56879	
16	1	6	87	/	/	10.67644	
17	2	6	65.4	1019	/	11.4206	

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	9	94.9	1175	/	0.610956	1
1	2	9	77.9	1549	/	0.814102	
2	2	9	54	1729	/	1.498983	
3	2	9	98.9	1091	/	2.358391	
4	1	9	50.4	/	/	2.94163	
5	2	9	83.1	1005	/	3.722446	
6	2	9	89.6	1482	/	4.06135	
7	1	9	89.6	/	/	4.780753	
8	1	9	81.8	/	/	5.985564	
9	3	9	89.6	1467	1707	6.583833	
10	1	9	72.6	/	/	6.744704	
11	2	9	89.8	1025	/	7.525684	
12	3	9	87.9	1779	1559	8.473808	
13	2	9	85.5	1135	/	8.92931	
14	3	9	52.5	1032	1671	9.865393	
15	2	9	75.8	1933	/	10.24491	
16	3	9	59.1	1139	1083	11.06398	
17	2	9	98.2	1274	/	11.71225	

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	14	66.2	1711	/	0.745296	1
1	2	14	98.3	1583	/	1.762831	
2	2	14	55.4	1616	/	2.359568	
3	1	14	62.1	/	/	3.283143	
4	1	14	79.7	/	/	4.789759	
5	3	14	50.9	1992	1676	5.818221	
6	1	14	51.7	/	/	6.881911	
7	2	14	85.6	1411	/	7.658871	
8	2	14	97.6	1398	/	8.086076	
9	1	14	55.8	/	/	9.560833	
10	3	14	56.1	1427	1203	10.9395	
11	3	14	89.7	1135	1070	11.17164	

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	1	10	60.2	/	/	0.992956	1
1	1	10	72.8	/	/	1.214677	
2	2	10	70.2	1740	/	2.890357	
3	2	10	52.5	1982	/	3.339022	
4	1	10	64.7	/	/	4.844082	
5	3	10	91.7	1092	1249	5.303752	
6	3	10	54.1	1437	1842	6.218329	
7	2	10	52.6	1354	/	7.491084	
8	3	10	78.7	1545	1799	8.07899	
9	2	10	75.3	1095	/	9.9881	
10	3	10	63	1053	1203	10.49013	
11	3	10	55.6	1785	1924	11.51174	

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	2	6	83.4	1240	/	0.454679	1
1	2	6	81.2	1445	/	0.894721	
2	1	6	50.5	/	/	1.295513	
3	1	6	50.7	/	/	2.230041	
4	3	6	55.4	1392	1355	2.759841	
5	1	6	52.8	/	/	3.203278	
6	3	6	61.8	1340	1349	4.226192	
7	1	6	71.6	/	/	4.76311	
8	2	6	68.9	1146	/	5.458165	
9	1	6	78	/	/	5.853387	
10	1	6	74	/	/	6.436298	
11	1	6	54.9	/	/	7.388432	
12	2	6	85	1496	/	8.153582	
13	2	6	51.7	1931	/	8.282021	
14	1	6	58.1	/	/	8.960502	
15	1	6	72.5	/	/	9.73636	
16	2	6	78.2	1120	/	10.66641	
17	2	6	59.5	1175	/	11.14249	
18	2	6	77.5	1675	/	11.38002	

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	2	10	63.6	1811	/	0.985771	1
1	1	10	56.6	/	/	1.234646	
2	1	10	92.1	/	/	2.645281	
3	1	10	86.9	/	/	3.771357	
4	3	10	50.7	1737	1712	4.152208	
5	2	10	78.1	1724	/	5.036629	
6	2	10	53.7	1052	/	6.902713	
7	1	10	52.6	/	/	7.105155	
8	2	10	58.1	1823	/	8.407621	
9	1	10	60.8	/	/	9.979186	
10	2	10	73.3	1843	/	10.29206	
11	3	10	91	1946	1411	11.74794	

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	11	93.6	1569	1617	1.396008	1
1	2	11	81	1163	/	1.967096	
2	3	11	94.3	1735	1735	3.486596	
3	1	11	52	/	/	5.80522	
4	2	11	65.8	1355	/	6.664832	
5	2	11	81.1	1330	/	7.832549	
6	2	11	86.2	1652	/	10.4903	
7	1	11	75.2	/	/	10.80425	

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	10	75.1	1178	/	0.012511	1
1	3	10	71.1	1317	1471	1.431773	
2	2	10	85.1	1446	/	1.937703	
3	2	10	88.2	1100	/	3.070108	
4	3	10	78.8	1436	1024	3.567514	
5	2	10	77	1392	/	4.172756	
6	1	10	89.5	/	/	5.372529	
7	2	10	57	1003	/	5.734539	
8	1	10	61.9	/	/	7.16558	
9	1	10	90.9	/	/	7.966276	
10	3	10	99.1	1202	1623	8.212781	
11	2	10	87.4	1380	/	9.378223	
12	1	10	58.4	/	/	9.8708	
13	1	10	71.8	/	/	10.81899	
14	2	10	57.6	1629	/	11.50698	

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	7	59.9	1546	/	0.127673	1
1	2	7	57.8	1600	/	0.818438	
2	3	7	56.4	1966	1088	1.60214	
3	3	7	50.9	1640	1914	1.92745	
4	3	7	91.8	1656	1097	2.897066	
5	2	7	83.6	1585	/	3.029399	
6	2	7	76.1	1325	/	3.708648	
7	3	7	76.4	1067	1910	4.60448	
8	2	7	92.4	1888	/	5.067679	
9	3	7	56.9	1043	1348	5.622755	
10	2	7	72.2	1445	/	6.585715	
11	3	7	85.6	1297	1800	6.776943	
12	3	7	72.1	1066	1588	7.439837	
13	2	7	57.6	1906	/	7.948846	
14	3	7	62.7	1629	1316	8.63666	
15	2	7	80.9	1291	/	9.040128	
16	3	7	70.6	1218	1413	10.12914	
17	2	7	58	1960	/	10.63998	
18	1	7	94.2	/	/	10.94545	
19	1	7	54.7	/	/	11.45231	

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	15	93.8	1666	/	0.260604	1
1	2	15	79.9	1188	/	1.026654	
2	1	15	57.3	/	/	2.198418	
3	1	15	56.9	/	/	3.286778	
4	2	15	92.3	1157	/	4.508206	
5	1	15	62	/	/	5.368687	
6	2	15	55.5	1095	/	6.208426	
7	2	15	98.7	1459	/	6.86982	
8	1	15	84.9	/	/	7.495234	
9	2	15	50.8	1927	/	8.856474	
10	2	15	63.1	1613	/	9.568759	
11	1	15	76.2	/	/	10.16297	
12	1	15	54.2	/	/	11.17638	

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	5298.0, 5581.0, 5646.0, 5481.0, 5644.0, 5261.0, 5397.0, 5612.0, 5609.0, 5393.0, 5708.0, 5722.0, 5558.0, 5312.0, 5270.0, 5710.0, 5460.0, 5328.0, 5503.0, 5456.0, 5338.0, 5390.0, 5666.0, 5307.0, 5255.0, 5715.0, 5483.0, 5290.0, 5660.0, 5622.0, 5421.0, 5404.0, 5346.0, 5698.0, 5411.0, 5649.0, 5349.0, 5650.0, 5274.0, 5498.0, 5716.0, 5484.0, 5347.0, 5445.0, 5570.0, 5357.0, 5342.0, 5327.0, 5453.0, 5511.0, 5547.0, 5655.0, 5263.0, 5352.0, 5276.0, 5272.0, 5569.0, 5480.0, 5462.0, 5514.0, 5281.0, 5269.0, 5279.0, 5534.0, 5469.0, 5709.0, 5467.0, 5296.0, 5670.0, 5444.0, 5311.0, 5623.0, 5431.0, 5565.0, 5700.0, 5596.0, 5435.0, 5509.0, 5286.0, 5355.0, 5653.0, 5440.0, 5400.0, 5530.0, 5550.0, 5299.0, 5258.0, 5257.0, 5692.0, 5291.0, 5260.0, 5319.0, 5476.0, 5371.0, 5624.0, 5379.0, 5633.0, 5575.0, 5589.0, 5443.0
2	5270	9	1	333	1	5638.0, 5582.0, 5687.0, 5409.0, 5267.0, 5330.0, 5302.0, 5439.0, 5338.0, 5340.0, 5487.0, 5396.0, 5279.0, 5492.0, 5528.0, 5631.0, 5623.0, 5712.0, 5459.0, 5600.0, 5336.0, 5398.0, 5422.0, 5374.0, 5523.0, 5624.0, 5261.0, 5601.0, 5552.0, 5426.0, 5385.0, 5590.0, 5672.0, 5288.0, 5532.0, 5301.0, 5273.0, 5388.0, 5537.0, 5387.0, 5282.0, 5411.0, 5535.0, 5434.0, 5531.0, 5579.0, 5386.0, 5616.0, 5705.0, 5667.0, 5489.0, 5361.0, 5571.0, 5652.0, 5256.0, 5614.0, 5640.0, 5572.0, 5671.0, 5429.0, 5515.0, 5591.0, 5534.0, 5253.0, 5323.0, 5653.0, 5599.0, 5644.0, 5642.0, 5477.0, 5539.0, 5463.0, 5433.0, 5316.0, 5548.0, 5306.0, 5444.0, 5702.0, 5663.0, 5658.0, 5570.0, 5691.0, 5480.0, 5648.0, 5332.0, 5555.0, 5505.0, 5250.0, 5289.0, 5715.0, 5370.0, 5376.0, 5609.0, 5275.0, 5517.0, 5518.0, 5520.0, 5478.0, 5699.0, 5680.0
3	5270	9	1	333	1	5358.0, 5391.0, 5474.0, 5272.0, 5408.0, 5290.0, 5397.0, 5574.0, 5522.0, 5632.0, 5253.0, 5543.0, 5485.0, 5436.0, 5554.0, 5395.0, 5462.0, 5414.0, 5586.0, 5659.0, 5600.0, 5475.0, 5297.0, 5496.0, 5434.0, 5723.0, 5663.0, 5588.0, 5592.0, 5291.0, 5450.0, 5495.0, 5629.0, 5335.0, 5688.0, 5334.0, 5512.0, 5625.0, 5326.0, 5269.0, 5597.0, 5392.0, 5428.0, 5612.0, 5672.0, 5693.0, 5545.0, 5564.0, 5622.0, 5502.0, 5552.0, 5422.0, 5540.0, 5279.0, 5403.0, 5399.0, 5363.0, 5417.0, 5331.0, 5719.0, 5349.0, 5516.0, 5651.0, 5317.0, 5430.0,

						5448.0, 5339.0, 5420.0, 5529.0, 5579.0, 5459.0, 5425.0, 5374.0, 5273.0, 5491.0, 5538.0, 5683.0, 5618.0, 5583.0, 5465.0, 5684.0, 5713.0, 5614.0, 5694.0, 5655.0, 5570.0, 5628.0, 5550.0, 5504.0, 5603.0, 5311.0, 5582.0, 5476.0, 5471.0, 5601.0, 5300.0, 5692.0, 5548.0, 5530.0, 5463.0
4	5270	9	1	333	1	5639.0, 5307.0, 5308.0, 5401.0, 5500.0, 5628.0, 5644.0, 5721.0, 5587.0, 5523.0, 5371.0, 5711.0, 5516.0, 5659.0, 5535.0, 5276.0, 5322.0, 5281.0, 5531.0, 5540.0, 5625.0, 5455.0, 5331.0, 5653.0, 5562.0, 5287.0, 5539.0, 5707.0, 5710.0, 5696.0, 5384.0, 5692.0, 5396.0, 5426.0, 5598.0, 5304.0, 5305.0, 5651.0, 5362.0, 5545.0, 5257.0, 5383.0, 5613.0, 5379.0, 5369.0, 5508.0, 5358.0, 5407.0, 5705.0, 5253.0, 5289.0, 5663.0, 5519.0, 5348.0, 5697.0, 5529.0, 5627.0, 5431.0, 5355.0, 5640.0, 5526.0, 5430.0, 5569.0, 5664.0, 5414.0, 5699.0, 5572.0, 5302.0, 5510.0, 5428.0, 5255.0, 5320.0, 5602.0, 5533.0, 5552.0, 5601.0, 5482.0, 5398.0, 5505.0, 5475.0, 5447.0, 5271.0, 5567.0, 5704.0, 5504.0, 5596.0, 5547.0, 5274.0, 5515.0, 5631.0, 5395.0, 5553.0, 5457.0, 5263.0, 5502.0, 5364.0, 5339.0, 5463.0, 5511.0, 5299.0
5	5270	9	1	333	1	5336.0, 5419.0, 5371.0, 5513.0, 5439.0, 5546.0, 5403.0, 5433.0, 5505.0, 5360.0, 5614.0, 5274.0, 5412.0, 5483.0, 5448.0, 5650.0, 5509.0, 5691.0, 5531.0, 5497.0, 5611.0, 5610.0, 5432.0, 5329.0, 5506.0, 5288.0, 5563.0, 5306.0, 5307.0, 5479.0, 5606.0, 5469.0, 5484.0, 5683.0, 5632.0, 5260.0, 5591.0, 5394.0, 5492.0, 5646.0, 5608.0, 5601.0, 5636.0, 5561.0, 5718.0, 5621.0, 5446.0, 5704.0, 5444.0, 5622.0, 5343.0, 5257.0, 5427.0, 5572.0, 5693.0, 5270.0, 5291.0, 5458.0, 5504.0, 5415.0, 5684.0, 5638.0, 5357.0, 5328.0, 5711.0, 5318.0, 5335.0, 5540.0, 5687.0, 5365.0, 5473.0, 5587.0, 5267.0, 5388.0, 5669.0, 5516.0, 5675.0, 5431.0, 5705.0, 5313.0, 5480.0, 5512.0, 5488.0, 5423.0, 5578.0, 5618.0, 5685.0, 5337.0, 5314.0, 5411.0, 5309.0, 5511.0, 5464.0, 5494.0, 5256.0, 5368.0, 5680.0, 5321.0, 5605.0, 5426.0
6	5270	9	1	333	1	5386.0, 5439.0, 5272.0, 5672.0, 5435.0, 5630.0, 5477.0, 5517.0, 5650.0, 5519.0, 5499.0, 5324.0, 5467.0, 5609.0, 5362.0, 5689.0, 5603.0, 5715.0, 5546.0, 5342.0, 5526.0, 5665.0, 5513.0, 5703.0, 5576.0, 5617.0, 5597.0, 5407.0, 5540.0, 5589.0, 5414.0, 5459.0, 5591.0, 5330.0, 5644.0, 5680.0, 5455.0, 5616.0, 5265.0, 5699.0, 5535.0, 5567.0, 5472.0, 5663.0, 5581.0, 5612.0, 5325.0, 5431.0, 5361.0, 5451.0, 5677.0, 5370.0, 5338.0, 5452.0, 5560.0, 5498.0, 5522.0, 5463.0, 5641.0, 5374.0, 5458.0, 5416.0, 5541.0, 5355.0, 5527.0,

						5559.0, 5642.0, 5427.0, 5299.0, 5483.0, 5532.0, 5698.0, 5444.0, 5474.0, 5263.0, 5294.0, 5464.0, 5629.0, 5281.0, 5470.0, 5514.0, 5269.0, 5561.0, 5445.0, 5398.0, 5716.0, 5262.0, 5572.0, 5446.0, 5343.0, 5569.0, 5296.0, 5316.0, 5349.0, 5512.0, 5417.0, 5528.0, 5579.0, 5300.0, 5345.0
7	5270	9	1	333	1	5664.0, 5656.0, 5310.0, 5649.0, 5635.0, 5609.0, 5467.0, 5472.0, 5551.0, 5638.0, 5362.0, 5446.0, 5308.0, 5370.0, 5669.0, 5285.0, 5719.0, 5561.0, 5523.0, 5661.0, 5548.0, 5389.0, 5645.0, 5512.0, 5427.0, 5524.0, 5359.0, 5290.0, 5480.0, 5368.0, 5683.0, 5657.0, 5595.0, 5520.0, 5491.0, 5555.0, 5349.0, 5337.0, 5257.0, 5348.0, 5252.0, 5276.0, 5435.0, 5454.0, 5602.0, 5588.0, 5497.0, 5334.0, 5663.0, 5707.0, 5347.0, 5670.0, 5706.0, 5709.0, 5438.0, 5445.0, 5392.0, 5622.0, 5342.0, 5275.0, 5574.0, 5672.0, 5585.0, 5625.0, 5301.0, 5434.0, 5277.0, 5451.0, 5608.0, 5312.0, 5369.0, 5519.0, 5380.0, 5473.0, 5587.0, 5373.0, 5591.0, 5364.0, 5352.0, 5264.0, 5590.0, 5499.0, 5372.0, 5339.0, 5636.0, 5419.0, 5564.0, 5291.0, 5702.0, 5617.0, 5315.0, 5376.0, 5494.0, 5295.0, 5401.0, 5594.0, 5543.0, 5502.0, 5639.0, 5580.0
8	5270	9	1	333	1	5305.0, 5510.0, 5492.0, 5425.0, 5680.0, 5567.0, 5282.0, 5308.0, 5459.0, 5393.0, 5377.0, 5532.0, 5701.0, 5489.0, 5493.0, 5415.0, 5600.0, 5400.0, 5695.0, 5660.0, 5655.0, 5586.0, 5467.0, 5700.0, 5301.0, 5319.0, 5387.0, 5397.0, 5411.0, 5266.0, 5706.0, 5310.0, 5356.0, 5476.0, 5601.0, 5540.0, 5723.0, 5440.0, 5403.0, 5449.0, 5659.0, 5361.0, 5599.0, 5507.0, 5283.0, 5432.0, 5427.0, 5641.0, 5713.0, 5685.0, 5338.0, 5416.0, 5250.0, 5315.0, 5461.0, 5382.0, 5395.0, 5611.0, 5417.0, 5326.0, 5428.0, 5563.0, 5658.0, 5696.0, 5690.0, 5255.0, 5683.0, 5715.0, 5412.0, 5516.0, 5288.0, 5271.0, 5359.0, 5367.0, 5284.0, 5292.0, 5259.0, 5621.0, 5261.0, 5473.0, 5607.0, 5389.0, 5340.0, 5480.0, 5466.0, 5258.0, 5714.0, 5501.0, 5413.0, 5463.0, 5447.0, 5542.0, 5448.0, 5388.0, 5697.0, 5675.0, 5521.0, 5285.0, 5555.0, 5622.0
9	5270	9	1	333	1	5317.0, 5589.0, 5256.0, 5483.0, 5533.0, 5450.0, 5615.0, 5686.0, 5510.0, 5509.0, 5497.0, 5511.0, 5374.0, 5320.0, 5558.0, 5469.0, 5409.0, 5677.0, 5566.0, 5658.0, 5607.0, 5688.0, 5297.0, 5588.0, 5314.0, 5359.0, 5601.0, 5380.0, 5708.0, 5344.0, 5441.0, 5672.0, 5530.0, 5455.0, 5602.0, 5354.0, 5413.0, 5474.0, 5299.0, 5670.0, 5638.0, 5637.0, 5356.0, 5522.0, 5429.0, 5382.0, 5425.0, 5529.0, 5545.0, 5502.0, 5349.0, 5711.0, 5489.0, 5604.0, 5271.0, 5525.0, 5323.0, 5580.0, 5570.0, 5517.0, 5696.0, 5351.0, 5561.0, 5318.0, 5250.0,

						5301.0, 5492.0, 5680.0, 5639.0, 5515.0, 5655.0, 5679.0, 5534.0, 5337.0, 5463.0, 5458.0, 5494.0, 5336.0, 5531.0, 5495.0, 5536.0, 5298.0, 5547.0, 5480.0, 5352.0, 5424.0, 5644.0, 5311.0, 5718.0, 5275.0, 5370.0, 5427.0, 5259.0, 5444.0, 5701.0, 5707.0, 5628.0, 5308.0, 5554.0, 5660.0
10	5270	9	1	333	1	5394.0, 5688.0, 5432.0, 5622.0, 5462.0, 5661.0, 5657.0, 5439.0, 5606.0, 5437.0, 5266.0, 5434.0, 5708.0, 5418.0, 5387.0, 5284.0, 5351.0, 5581.0, 5555.0, 5278.0, 5281.0, 5605.0, 5372.0, 5570.0, 5717.0, 5416.0, 5426.0, 5280.0, 5531.0, 5577.0, 5449.0, 5481.0, 5659.0, 5293.0, 5317.0, 5415.0, 5318.0, 5468.0, 5488.0, 5568.0, 5638.0, 5537.0, 5658.0, 5286.0, 5610.0, 5511.0, 5384.0, 5253.0, 5517.0, 5347.0, 5382.0, 5303.0, 5446.0, 5484.0, 5358.0, 5518.0, 5391.0, 5420.0, 5666.0, 5444.0, 5482.0, 5275.0, 5675.0, 5588.0, 5703.0, 5671.0, 5602.0, 5707.0, 5673.0, 5525.0, 5653.0, 5369.0, 5651.0, 5498.0, 5714.0, 5586.0, 5376.0, 5362.0, 5413.0, 5515.0, 5368.0, 5695.0, 5668.0, 5534.0, 5520.0, 5470.0, 5724.0, 5607.0, 5574.0, 5669.0, 5644.0, 5274.0, 5422.0, 5311.0, 5492.0, 5298.0, 5343.0, 5508.0, 5460.0, 5527.0
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23	5270	9	1	333	1	5469.0, 5588.0, 5431.0, 5611.0, 5723.0, 5324.0, 5644.0, 5509.0, 5649.0, 5622.0, 5441.0, 5272.0, 5558.0, 5389.0, 5404.0, 5544.0, 5706.0, 5422.0, 5274.0, 5363.0, 5306.0, 5638.0, 5286.0, 5340.0, 5464.0, 5360.0, 5294.0, 5308.0, 5601.0, 5260.0, 5357.0, 5710.0, 5532.0, 5379.0, 5468.0, 5565.0, 5471.0, 5692.0, 5633.0, 5406.0, 5581.0, 5268.0, 5691.0, 5598.0, 5316.0, 5541.0, 5462.0, 5536.0, 5595.0, 5318.0, 5396.0, 5590.0, 5410.0, 5618.0, 5434.0, 5494.0, 5639.0, 5646.0, 5624.0, 5474.0, 5250.0, 5433.0, 5370.0, 5508.0, 5465.0, 5670.0, 5506.0, 5299.0, 5425.0, 5586.0, 5620.0, 5561.0, 5719.0, 5614.0, 5254.0, 5381.0, 5279.0, 5331.0, 5470.0, 5569.0, 5271.0, 5487.0, 5329.0, 5500.0, 5461.0, 5399.0, 5424.0, 5325.0, 5724.0, 5479.0, 5313.0, 5384.0, 5311.0, 5400.0, 5405.0, 5533.0, 5332.0, 5682.0, 5712.0, 5680.0
24	5270	9	1	333	1	5431.0, 5392.0, 5365.0, 5672.0, 5662.0, 5679.0, 5568.0, 5628.0, 5363.0, 5475.0, 5684.0, 5572.0, 5713.0, 5516.0, 5535.0, 5649.0, 5449.0, 5645.0, 5398.0, 5358.0, 5438.0, 5608.0, 5298.0, 5616.0, 5632.0, 5490.0, 5685.0, 5413.0, 5513.0, 5591.0, 5644.0, 5291.0, 5305.0, 5309.0, 5528.0, 5619.0, 5640.0, 5319.0, 5304.0, 5518.0, 5510.0, 5521.0, 5573.0, 5485.0, 5255.0, 5527.0, 5294.0, 5401.0, 5313.0, 5708.0, 5333.0, 5405.0, 5681.0, 5447.0, 5657.0, 5497.0, 5376.0, 5630.0, 5362.0, 5635.0, 5360.0, 5442.0, 5462.0, 5325.0, 5719.0,

						5522.0, 5407.0, 5423.0, 5580.0, 5604.0, 5631.0, 5370.0, 5369.0, 5668.0, 5498.0, 5290.0, 5598.0, 5505.0, 5480.0, 5317.0, 5678.0, 5707.0, 5491.0, 5718.0, 5532.0, 5284.0, 5301.0, 5574.0, 5551.0, 5559.0, 5269.0, 5489.0, 5251.0, 5306.0, 5594.0, 5285.0, 5547.0, 5581.0, 5613.0, 5533.0
25	5270	9	1	333	1	5350.0, 5258.0, 5641.0, 5508.0, 5266.0, 5631.0, 5344.0, 5288.0, 5489.0, 5599.0, 5397.0, 5624.0, 5672.0, 5657.0, 5431.0, 5470.0, 5610.0, 5357.0, 5401.0, 5461.0, 5293.0, 5574.0, 5723.0, 5490.0, 5418.0, 5270.0, 5488.0, 5254.0, 5648.0, 5581.0, 5666.0, 5671.0, 5398.0, 5617.0, 5492.0, 5575.0, 5420.0, 5553.0, 5436.0, 5554.0, 5268.0, 5590.0, 5304.0, 5694.0, 5263.0, 5558.0, 5698.0, 5548.0, 5521.0, 5677.0, 5404.0, 5591.0, 5701.0, 5604.0, 5594.0, 5713.0, 5281.0, 5403.0, 5413.0, 5557.0, 5514.0, 5414.0, 5717.0, 5310.0, 5469.0, 5602.0, 5384.0, 5532.0, 5445.0, 5473.0, 5578.0, 5424.0, 5463.0, 5711.0, 5251.0, 5668.0, 5432.0, 5608.0, 5433.0, 5264.0, 5504.0, 5383.0, 5265.0, 5540.0, 5646.0, 5250.0, 5459.0, 5603.0, 5329.0, 5681.0, 5439.0, 5331.0, 5497.0, 5630.0, 5520.0, 5460.0, 5524.0, 5577.0, 5347.0, 5295.0
26	5270	9	1	333	1	5722.0, 5641.0, 5574.0, 5485.0, 5419.0, 5620.0, 5498.0, 5329.0, 5445.0, 5537.0, 5656.0, 5672.0, 5438.0, 5339.0, 5330.0, 5568.0, 5429.0, 5513.0, 5647.0, 5271.0, 5541.0, 5373.0, 5565.0, 5546.0, 5628.0, 5622.0, 5440.0, 5268.0, 5288.0, 5589.0, 5287.0, 5380.0, 5341.0, 5385.0, 5576.0, 5613.0, 5390.0, 5347.0, 5408.0, 5321.0, 5511.0, 5711.0, 5564.0, 5669.0, 5417.0, 5556.0, 5646.0, 5299.0, 5649.0, 5362.0, 5340.0, 5720.0, 5306.0, 5479.0, 5585.0, 5653.0, 5630.0, 5334.0, 5284.0, 5374.0, 5703.0, 5481.0, 5262.0, 5289.0, 5437.0, 5693.0, 5644.0, 5604.0, 5697.0, 5523.0, 5488.0, 5319.0, 5404.0, 5721.0, 5673.0, 5475.0, 5410.0, 5356.0, 5516.0, 5678.0, 5297.0, 5606.0, 5359.0, 5596.0, 5679.0, 5263.0, 5684.0, 5477.0, 5590.0, 5457.0, 5413.0, 5395.0, 5557.0, 5719.0, 5618.0, 5282.0, 5424.0, 5561.0, 5535.0, 5716.0
27	5270	9	1	333	1	5519.0, 5522.0, 5317.0, 5427.0, 5543.0, 5411.0, 5437.0, 5403.0, 5292.0, 5666.0, 5462.0, 5473.0, 5325.0, 5623.0, 5708.0, 5517.0, 5313.0, 5487.0, 5266.0, 5495.0, 5297.0, 5352.0, 5619.0, 5697.0, 5529.0, 5372.0, 5706.0, 5286.0, 5490.0, 5283.0, 5551.0, 5430.0, 5335.0, 5700.0, 5626.0, 5718.0, 5588.0, 5475.0, 5398.0, 5492.0, 5545.0, 5467.0, 5453.0, 5396.0, 5689.0, 5333.0, 5384.0, 5654.0, 5315.0, 5471.0, 5251.0, 5523.0, 5445.0, 5582.0, 5412.0, 5574.0, 5425.0, 5421.0, 5344.0, 5327.0, 5382.0, 5564.0, 5665.0, 5305.0, 5420.0,

						5477.0, 5507.0, 5316.0, 5711.0, 5630.0, 5493.0, 5386.0, 5308.0, 5720.0, 5508.0, 5660.0, 5268.0, 5585.0, 5289.0, 5443.0, 5361.0, 5546.0, 5615.0, 5500.0, 5699.0, 5296.0, 5468.0, 5435.0, 5581.0, 5719.0, 5424.0, 5387.0, 5553.0, 5608.0, 5388.0, 5547.0, 5479.0, 5599.0, 5641.0, 5368.0
28	5270	9	1	333	1	5512.0, 5606.0, 5709.0, 5595.0, 5622.0, 5553.0, 5410.0, 5257.0, 5542.0, 5703.0, 5690.0, 5489.0, 5571.0, 5360.0, 5326.0, 5401.0, 5387.0, 5611.0, 5392.0, 5617.0, 5378.0, 5487.0, 5261.0, 5412.0, 5267.0, 5572.0, 5382.0, 5361.0, 5522.0, 5406.0, 5395.0, 5371.0, 5265.0, 5358.0, 5500.0, 5579.0, 5537.0, 5654.0, 5281.0, 5671.0, 5482.0, 5720.0, 5531.0, 5343.0, 5627.0, 5682.0, 5532.0, 5658.0, 5496.0, 5293.0, 5438.0, 5706.0, 5263.0, 5700.0, 5344.0, 5621.0, 5454.0, 5684.0, 5588.0, 5376.0, 5403.0, 5574.0, 5712.0, 5608.0, 5400.0, 5420.0, 5252.0, 5347.0, 5408.0, 5527.0, 5689.0, 5634.0, 5672.0, 5679.0, 5313.0, 5349.0, 5405.0, 5300.0, 5551.0, 5308.0, 5451.0, 5666.0, 5717.0, 5374.0, 5501.0, 5340.0, 5391.0, 5413.0, 5283.0, 5513.0, 5497.0, 5675.0, 5667.0, 5389.0, 5541.0, 5379.0, 5470.0, 5535.0, 5539.0, 5426.0
29	5270	9	1	333	1	5354.0, 5513.0, 5711.0, 5328.0, 5284.0, 5459.0, 5537.0, 5612.0, 5596.0, 5566.0, 5544.0, 5540.0, 5710.0, 5701.0, 5430.0, 5719.0, 5692.0, 5552.0, 5702.0, 5684.0, 5570.0, 5306.0, 5265.0, 5433.0, 5575.0, 5674.0, 5584.0, 5344.0, 5373.0, 5590.0, 5467.0, 5693.0, 5651.0, 5331.0, 5644.0, 5364.0, 5353.0, 5322.0, 5307.0, 5597.0, 5379.0, 5377.0, 5288.0, 5466.0, 5273.0, 5699.0, 5378.0, 5436.0, 5546.0, 5555.0, 5515.0, 5705.0, 5289.0, 5417.0, 5281.0, 5645.0, 5619.0, 5541.0, 5542.0, 5580.0, 5376.0, 5600.0, 5487.0, 5395.0, 5272.0, 5672.0, 5327.0, 5639.0, 5271.0, 5564.0, 5263.0, 5255.0, 5341.0, 5571.0, 5583.0, 5403.0, 5346.0, 5434.0, 5400.0, 5472.0, 5525.0, 5520.0, 5458.0, 5691.0, 5432.0, 5641.0, 5485.0, 5349.0, 5653.0, 5421.0, 5371.0, 5501.0, 5380.0, 5647.0, 5591.0, 5521.0, 5676.0, 5708.0, 5402.0, 5316.0
30	5270	9	1	333	1	5476.0, 5616.0, 5492.0, 5615.0, 5604.0, 5511.0, 5553.0, 5678.0, 5522.0, 5349.0, 5502.0, 5338.0, 5579.0, 5672.0, 5581.0, 5699.0, 5306.0, 5636.0, 5504.0, 5677.0, 5451.0, 5722.0, 5702.0, 5330.0, 5711.0, 5538.0, 5359.0, 5314.0, 5614.0, 5429.0, 5368.0, 5635.0, 5365.0, 5313.0, 5405.0, 5315.0, 5452.0, 5280.0, 5600.0, 5278.0, 5295.0, 5411.0, 5569.0, 5438.0, 5364.0, 5356.0, 5551.0, 5546.0, 5612.0, 5484.0, 5360.0, 5470.0, 5645.0, 5435.0, 5588.0, 5392.0, 5395.0, 5302.0, 5549.0, 5606.0, 5475.0, 5567.0, 5340.0, 5393.0, 5610.0,

						5388.0, 5447.0, 5643.0, 5308.0, 5496.0, 5444.0, 5410.0, 5514.0, 5384.0, 5396.0, 5407.0, 5592.0, 5685.0, 5285.0, 5629.0, 5706.0, 5617.0, 5718.0, 5486.0, 5372.0, 5607.0, 5270.0, 5532.0, 5601.0, 5312.0, 5646.0, 5376.0, 5374.0, 5611.0, 5515.0, 5414.0, 5366.0, 5487.0, 5463.0, 5707.0

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	100%	60%	Pass
Type 4	30	83.3%	60%	Pass
Aggregate(Type1 to 4)	120	95.8 %	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	102	1	518	1
2	5290	83	1	638	1
3	5290	59	1	898	1
4	5290	76	1	698	1
5	5290	86	1	618	1
6	5290	78	1	678	1
7	5290	70	1	758	1
8	5290	61	1	878	1
9	5290	74	1	718	1
10	5290	68	1	778	1
11	5290	65	1	818	1
12	5290	95	1	558	1
13	5290	58	1	918	1
14	5290	62	1	858	1
15	5290	57	1	938	1
Detection Percentage: 100 % (>60%)					

Radar Type 1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	28	1	1913	1
2	5290	22	1	2430	1
3	5290	78	1	679	1
4	5290	46	1	1166	1
5	5290	40	1	1349	1
6	5290	18	1	3010	1
7	5290	67	1	790	1
8	5290	42	1	1274	1
9	5290	21	1	2629	1
10	5290	26	1	2065	1
11	5290	20	1	2768	1
12	5290	29	1	1846	1
13	5290	79	1	669	1
14	5290	27	1	1998	1
15	5290	25	1	2122	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	28	4.5	209	1
2	5290	29	1.1	185	1
3	5290	29	4.5	167	1
4	5290	24	3.8	187	1
5	5290	26	2.7	180	1
6	5290	23	1.2	225	1
7	5290	25	1.3	150	1
8	5290	29	4.2	198	1
9	5290	27	2.6	189	1
10	5290	27	2.3	200	1
11	5290	27	3.4	156	1
12	5290	25	3.1	229	1
13	5290	27	1.1	225	1
14	5290	23	1	219	1
15	5290	26	1.4	220	1
16	5290	28	3.9	202	1
17	5290	28	2.7	177	1
18	5290	23	1.5	222	1
19	5290	24	4.4	228	1
20	5290	24	4.2	175	1
21	5290	24	3.2	164	1
22	5290	24	4.5	226	1
23	5290	28	3.8	215	1
24	5290	24	4.1	157	1
25	5290	29	3.2	184	1
26	5290	26	1.9	152	1
27	5290	29	4.1	187	1
28	5290	29	4.8	151	1
29	5290	27	4.9	215	1
30	5290	29	2.8	199	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	7.9	279	1
2	5290	16	8.7	378	1
3	5290	18	7.4	408	1
4	5290	18	6	303	1
5	5290	17	7.5	403	1
6	5290	18	8.3	472	1
7	5290	18	7.8	239	1
8	5290	17	6.6	313	1
9	5290	17	8.9	264	1
10	5290	16	7.6	366	1
11	5290	17	8.5	474	1
12	5290	18	6.4	341	1
13	5290	18	6.1	252	1
14	5290	17	6.5	461	1
15	5290	18	7.7	371	1
16	5290	16	7	430	1
17	5290	18	9.4	494	1
18	5290	18	9.7	464	1
19	5290	17	9.5	255	1
20	5290	18	7.6	227	1
21	5290	17	8.6	498	1
22	5290	17	7.3	237	1
23	5290	16	6.4	462	1
24	5290	17	7.4	408	1
25	5290	17	6.7	493	1
26	5290	16	7.8	479	1
27	5290	18	7.3	461	1
28	5290	18	9.7	440	1
29	5290	16	8	339	1
30	5290	17	9.9	340	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	5290	16	19.7	206	1
2	5290	13	19.2	218	1
3	5290	14	12.4	289	1
4	5290	13	15	445	0
5	5290	15	16.3	406	1
6	5290	13	12.9	204	1
7	5290	14	16.4	271	1
8	5290	12	15.8	451	1
9	5290	12	12.4	380	1
10	5290	12	14.7	499	0
11	5290	14	17.7	484	0
12	5290	16	14.6	257	1
13	5290	16	11	498	1
14	5290	15	16.5	347	1
15	5290	14	12.6	314	1
16	5290	13	20	363	1
17	5290	12	12.5	391	1
18	5290	14	11.2	388	0
19	5290	14	16.8	487	1
20	5290	12	14	437	1
21	5290	16	13.5	426	1
22	5290	14	15.2	456	1
23	5290	14	18.7	389	1
24	5290	12	12	325	1
25	5290	16	19.5	369	0
26	5290	14	11.8	387	1
27	5290	16	19.1	472	1
28	5290	14	14.2	477	1
29	5290	16	11.1	435	1
30	5290	12	12.7	497	1
Detection Percentage: 83.3 % (>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	2	11	55.9	1972	/	0.078348	
1	2	11	66.3	1650	/	0.767396	
2	2	11	75.7	1277	/	1.599133	
3	3	11	81.6	1176	1891	2.462951	
4	2	11	67.4	1306	/	2.815681	1
5	2	11	66.5	1585	/	3.286856	
6	2	11	99.5	1253	/	3.887237	
7	2	11	82.5	1699	/	4.633499	
8	2	11	99.8	1726	/	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	6	56.8	/	/	0.906763	
1	3	6	76.6	1440	1355	1.689209	
2	2	6	90.9	1244	/	2.562712	
3	2	6	64.1	1672	/	3.172435	
4	2	6	94.9	1119	/	4.053378	
5	2	6	69.9	1425	/	4.952018	
6	2	6	71	1281	/	6.455929	0
7	1	6	54.6	/	/	6.470315	
8	2	6	51	1649	/	7.44268	
9	1	6	74.2	/	/	8.843883	
10	2	6	96	1524	/	9.963291	
11	2	6	57.7	1794	/	10.88573	
12	1	6	72.3	/	/	11.78983	

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	58.6	1937	/	0.160325	1
1	2	7	69.6	1940	/	1.419039	
2	2	7	90.8	1976	/	2.154393	
3	2	7	91.9	1826	/	2.400772	
4	3	7	87.6	1506	1723	3.120222	
5	2	7	68	1649	/	4.197712	
6	3	7	81.3	1543	1899	4.704887	
7	2	7	60.5	1159	/	5.359624	
8	3	7	91	1771	1835	6.273213	
9	3	7	62.7	1992	1419	7.064013	
10	2	7	82.5	1027	/	7.524476	
11	2	7	98.1	1736	/	8.621884	
12	3	7	63.7	1582	1849	9.131736	
13	1	7	66.4	/	/	10.44979	
14	1	7	65.4	/	/	10.86773	
15	2	7	88.1	1341	/	11.37561	

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	3	5	59.8	1472	1155	0.413307	1
1	3	5	70.3	1188	1329	0.734473	
2	1	5	75.2	/	/	1.680329	
3	2	5	66.8	1061	/	2.392892	
4	1	5	68.2	/	/	2.906494	
5	3	5	89.6	1506	1506	3.940412	
6	1	5	67.6	/	/	4.376916	
7	2	5	61.5	1732	/	4.668408	
8	1	5	50.6	/	/	5.460801	
9	3	5	57.6	1811	1984	6.297134	
10	3	5	95.2	1842	1366	6.871129	
11	3	5	93.9	1845	1341	7.568281	
12	1	5	86.7	/	/	8.610354	
13	2	5	56.2	1773	/	9.118744	
14	3	5	66.7	1759	1664	9.82847	
15	1	5	85.4	/	/	10.01983	
16	3	5	99.5	1860	1843	11.32321	
17	2	5	61.3	1706	/	11.87199	

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	12	65.7	1532	/	0.129889	1
1	1	12	96.6	/	/	0.743614	
2	2	12	69.3	1668	/	1.470901	
3	2	12	94.7	1439	/	2.001504	
4	2	12	96.9	1868	/	3.197346	
5	2	12	56.9	1026	/	3.986812	
6	2	12	62	1627	/	4.542927	
7	3	12	75.6	1291	1366	5.209902	
8	3	12	53.8	1151	1184	5.654344	
9	2	12	62.6	1183	/	6.073068	
10	2	12	75.9	1416	/	6.925092	
11	1	12	95.2	/	/	7.657269	
12	2	12	57.5	1830	/	8.404034	
13	2	12	67.2	1095	/	8.806698	
14	3	12	59.8	1915	1553	9.342996	
15	1	12	55.1	/	/	10.14456	
16	2	12	71.8	1059	/	10.99512	
17	2	12	86	1447	/	11.90684	

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	3	13	68	1211	1090	0.871499	1
1	3	13	99.4	1089	1907	0.995632	
2	1	13	85.4	/	/	2.343994	
3	2	13	73.2	1388	/	3.572177	
4	1	13	50.1	/	/	3.786756	
5	2	13	74.2	1012	/	5.174407	
6	1	13	78	/	/	5.738097	
7	2	13	60.4	1677	/	6.840151	
8	3	13	90.8	1769	1089	7.922859	
9	1	13	86.5	/	/	8.893841	
10	1	13	52	/	/	9.635536	
11	1	13	89.2	/	/	10.55202	
12	2	13	64.9	1353	/	11.22984	

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	11	87.1	1848	/	0.328684	1
1	3	11	80.4	1087	1070	0.942775	
2	2	11	82.8	1190	/	1.258561	
3	2	11	73.8	1253	/	2.391308	
4	2	11	69.6	1438	/	2.859773	
5	1	11	93.5	/	/	3.358988	
6	1	11	68.4	/	/	4.162085	
7	2	11	71.1	1801	/	4.62059	
8	1	11	84.5	/	/	5.106029	
9	3	11	94.4	1274	1299	5.945891	
10	2	11	100	1815	/	6.294896	
11	2	11	59.1	1963	/	6.999507	
12	1	11	64.2	/	/	7.230458	
13	1	11	76.1	/	/	8.270902	
14	2	11	96	1338	/	8.504883	
15	3	11	55.1	1750	1628	9.355483	
16	2	11	83	1789	/	9.91987	
17	2	11	87.1	1248	/	10.72324	
18	2	11	71.5	1076	/	11.11463	
19	3	11	95.9	1894	1087	11.90548	

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	10	69.6	/	/	0.309764	1
1	3	10	50.3	1122	1565	1.199282	
2	3	10	65.7	1260	1481	2.001315	
3	1	10	52.1	/	/	2.697521	
4	3	10	93	1560	1121	3.730695	
5	3	10	85.4	1921	1645	4.472302	
6	1	10	60.7	/	/	5.527776	
7	2	10	52.1	1435	/	6.339262	
8	1	10	81.5	/	/	7.424661	
9	1	10	76.1	/	/	7.865806	
10	2	10	52.3	1582	/	8.79428	
11	3	10	89.7	1314	1950	10.15078	
12	2	10	80.2	1844	/	10.84913	
13	1	10	71.7	/	/	11.22928	

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	2	7	97.9	1043	/	0.061206	1
1	3	7	77.3	1258	1500	1.104295	
2	3	7	54.6	1272	1847	1.450423	
3	3	7	66.9	1332	1876	2.112724	
4	2	7	98.4	1640	/	2.620089	
5	2	7	57.2	1336	/	3.324389	
6	3	7	97.5	1067	1347	4.089819	
7	2	7	53.4	1884	/	4.731863	
8	1	7	87.9	/	/	5.161211	
9	2	7	98.5	1069	/	5.465113	
10	2	7	91.2	1814	/	6.532279	
11	3	7	63.8	1618	1203	7.058012	
12	3	7	91.8	1469	1103	7.242547	
13	1	7	76.7	/	/	8.086862	
14	2	7	53	1055	/	8.716844	
15	2	7	59.1	1076	/	9.045888	
16	1	7	63.6	/	/	10.04352	
17	2	7	60.8	1619	/	10.33207	
18	3	7	79.4	1353	1847	11.2268	
19	2	7	61.8	1671	/	11.57681	

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	8	70.2	1837	/	0.485514	1
1	3	8	99.9	1388	1085	1.422828	
2	3	8	53.3	1206	1683	3.445097	
3	2	8	80.9	1273	/	4.252017	
4	1	8	79.3	/	/	5.846393	
5	2	8	52.6	1936	/	6.647494	
6	2	8	66.7	1193	/	7.215965	
7	2	8	56.8	1539	/	9.393255	
8	1	8	73.8	/	/	10.10925	
9	1	8	79	/	/	11.31677	

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	3	19	68.9	1691	1208	0.777639	1
1	2	19	74.1	1792	/	1.070643	
2	2	19	51.8	1176	/	2.245541	
3	2	19	59.3	1803	/	3.212152	
4	2	19	87.5	1356	/	4.011048	
5	3	19	59.3	1037	1895	5.511632	
6	1	19	50.5	/	/	6.640804	
7	1	19	58.5	/	/	7.551368	
8	2	19	91.3	1069	/	8.958015	
9	2	19	72	1826	/	9.384473	
10	2	19	94.5	1650	/	10.44021	
11	3	19	96.9	1379	1692	11.41811	

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	15	93.9	1703	/	0.487762	1
1	3	15	56.1	1288	1937	2.15525	
2	3	15	66.2	1301	1663	3.200264	
3	2	15	89.2	1465	/	5.101913	
4	1	15	80.4	/	/	6.212942	
5	1	15	61.6	/	/	7.700066	
6	2	15	77	1510	/	8.813678	
7	2	15	75	1252	/	9.638833	
8	2	15	92.7	1500	/	11.75232	

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	5	65.6	1716	/	0.57092	1
1	2	5	90	1413	/	1.627452	
2	3	5	56.8	1330	1487	3.867405	
3	1	5	63.8	/	/	4.470329	
4	1	5	60.3	/	/	5.777827	
5	3	5	79.1	1551	1889	7.985612	
6	1	5	57.1	/	/	8.330933	
7	2	5	93.7	1447	/	9.693727	
8	2	5	70.7	1665	/	11.37381	

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	3	20	91	1639	1286	0.61655	1
1	1	20	56.5	/	/	1.527946	
2	2	20	70.9	1518	/	2.2114	
3	2	20	82.6	1546	/	3.395818	
4	1	20	79.9	/	/	3.658062	
5	2	20	80.9	1783	/	5.045875	
6	1	20	88.9	/	/	5.605182	
7	1	20	73.5	/	/	6.523598	
8	2	20	76.5	1487	/	7.561477	
9	2	20	76.3	1817	/	7.884881	
10	3	20	92.3	1653	1535	8.684694	
11	1	20	78.2	/	/	9.826371	
12	3	20	64	1561	1462	10.46312	
13	3	20	95.1	1302	1041	11.88593	

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	2	7	91.1	1558	/	0.503794	1
1	2	7	65.7	1851	/	1.038569	
2	3	7	84.5	1690	1989	1.870509	
3	2	7	85.3	1046	/	2.745915	
4	2	7	80.2	1505	/	3.321387	
5	1	7	84.8	/	/	4.300705	
6	3	7	95.9	1176	1006	5.068743	
7	2	7	78.5	1917	/	5.856808	
8	3	7	84.9	1080	1544	6.128521	
9	2	7	65	1413	/	7.280881	
10	2	7	63.5	1382	/	7.894463	
11	2	7	80.8	1222	/	8.898697	
12	3	7	90.3	1958	1984	9.290993	
13	2	7	91.9	1971	/	10.18139	
14	2	7	61.7	1073	/	10.55456	
15	3	7	96.7	1115	1647	11.77851	

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	3	15	80.7	1825	1468	0.20087	1
1	2	15	67.8	1918	/	1.451917	
2	1	15	93.2	/	/	2.282611	
3	1	15	72.5	/	/	3.031791	
4	2	15	99.1	1270	/	3.593994	
5	3	15	76.3	1237	1388	4.558323	
6	2	15	62.6	1727	/	4.860318	
7	2	15	60.2	1832	/	6.197977	
8	1	15	86.9	/	/	6.542671	
9	3	15	68.6	1259	1680	7.43254	
10	2	15	70.1	1177	/	8.095555	
11	2	15	88.5	1614	/	9.409114	
12	2	15	58.1	1833	/	9.805194	
13	3	15	53.3	1755	1441	11.04961	
14	2	15	75.2	1566	/	11.33747	

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	2	11	96.4	1120	/	0.613055	0
1	1	11	87.8	/	/	1.042206	
2	2	11	79.6	1687	/	1.793294	
3	1	11	52.6	/	/	2.671418	
4	1	11	76.8	/	/	3.891078	
5	2	11	86.3	1831	/	4.166374	
6	3	11	53.1	1091	1877	5.521827	
7	1	11	60.5	/	/	5.658374	
8	1	11	50.1	/	/	6.707016	
9	1	11	80.2	/	/	7.79481	
10	1	11	58.2	/	/	8.469427	
11	3	11	93.2	1463	1278	8.876074	
12	2	11	75.7	1374	/	10.32589	
13	3	11	70	1879	1887	11.06991	
14	2	11	90.9	1929	/	11.97737	

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	3	17	55.4	1715	1485	0.438469	1
1	3	17	57	1753	1784	0.922844	
2	2	17	52.2	1259	/	1.531543	
3	3	17	94.4	1681	1183	2.468904	
4	3	17	82.1	1543	1140	2.931807	
5	1	17	64.5	/	/	3.940818	
6	2	17	72.6	1060	/	4.472331	
7	2	17	58.4	1920	/	4.738236	
8	1	17	90.8	/	/	5.473272	
9	3	17	55.4	1348	1829	6.272061	
10	3	17	83.6	1707	1940	6.918297	
11	3	17	72.9	1871	1803	7.568944	
12	3	17	75.5	1854	1881	8.122921	
13	3	17	91.8	1246	1179	9.029856	
14	2	17	96.6	1685	/	9.97055	
15	2	17	56.1	1063	/	10.64318	
16	3	17	96.5	1260	1483	10.93811	
17	2	17	61.8	1505	/	11.52411	

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	2	8	79.7	1391	/	0.026012	1
1	2	8	60.2	1127	/	1.110404	
2	1	8	64.2	/	/	1.514255	
3	3	8	59.7	1274	1200	2.987084	
4	2	8	94.2	1833	/	3.674635	
5	1	8	60.8	/	/	4.286179	
6	1	8	74.1	/	/	4.963127	
7	3	8	99.6	1447	1935	5.561191	
8	2	8	64.4	1627	/	6.461633	
9	1	8	77.8	/	/	7.466631	
10	3	8	91.5	1146	1945	8.085001	
11	3	8	67.8	1568	1620	8.627908	
12	2	8	97.9	1804	/	9.237359	
13	1	8	57.2	/	/	10.38063	
14	3	8	70.2	1387	1596	10.88638	
15	2	8	69.5	1656	/	11.41463	

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	1	16	56.7	/	/	0.249706	1
1	3	16	89.4	1323	1145	1.07004	
2	2	16	60.3	1999	/	2.185255	
3	2	16	62	1589	/	2.647991	
4	2	16	62.6	1059	/	3.719626	
5	3	16	55.9	1754	1182	4.72141	
6	2	16	79.7	1482	/	5.192573	
7	2	16	89.4	1666	/	5.603485	
8	3	16	88	1504	1519	6.824966	
9	3	16	77.1	1214	1289	7.340072	
10	2	16	96.9	1036	/	8.470648	
11	2	16	63.1	1163	/	9.28499	
12	2	16	69.6	1038	/	9.638294	
13	3	16	96.5	1363	1219	10.71131	
14	3	16	83.6	1429	1907	11.36748	

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	19	95	1950	/	0.691602	
1	1	19	95	/	/	1.269626	
2	2	19	92.4	1864	/	1.528244	
3	2	19	98.3	1283	/	2.254648	
4	2	19	94.1	1227	/	3.459494	
5	2	19	98.4	1562	/	3.584838	
6	2	19	64.7	1320	/	4.280215	
7	1	19	56.2	/	/	5.169875	
8	2	19	65.7	1452	/	5.695459	1
9	2	19	91.6	1933	/	6.528565	
10	3	19	58.7	1247	1122	7.072119	
11	2	19	57.4	1616	/	7.935852	
12	3	19	60.8	1150	1099	9.043027	
13	3	19	77.7	1796	1833	9.584448	
14	1	19	58.3	/	/	10.54769	
15	2	19	51.4	1801	/	11.16517	
16	3	19	81	1981	1519	11.58833	

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	1	13	61.3	/	/	0.107534	
1	1	13	91	/	/	1.6577	
2	1	13	76.8	/	/	2.128633	
3	1	13	70	/	/	3.255714	
4	2	13	59.9	1563	/	3.957581	
5	1	13	52.2	/	/	4.913806	
6	1	13	71.1	/	/	6.40848	1
7	2	13	87.5	1462	/	7.274362	
8	1	13	81.6	/	/	7.694161	
9	3	13	90.7	1161	1400	8.864081	
10	3	13	56.7	1238	1575	9.762608	
11	2	13	75.1	1839	/	10.57641	
12	2	13	99.4	1094	/	11.28185	

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	2	6	69	1956	/	0.01125	1
1	2	6	99.3	1792	/	1.476806	
2	1	6	68.5	/	/	2.102684	
3	2	6	97.7	1603	/	3.927936	
4	2	6	70.6	1915	/	4.558261	
5	1	6	83	/	/	5.382478	
6	1	6	81.1	/	/	6.539528	
7	2	6	65.1	1215	/	7.713235	
8	3	6	91.3	1421	1047	8.865274	
9	3	6	56.3	1978	1626	9.326535	
10	3	6	92.2	1473	1037	10.06655	
11	1	6	99.6	/	/	11.74662	

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	1	16	76.6	/	/	0.156396	1
1	3	16	60	1209	1468	0.6751	
2	2	16	99.6	1860	/	1.296089	
3	2	16	97.9	1089	/	2.375061	
4	3	16	92.6	1541	1531	2.937459	
5	3	16	62	1530	1288	3.526126	
6	1	16	70.6	/	/	3.777395	
7	2	16	79.5	1246	/	4.642266	
8	2	16	97	1561	/	5.226413	
9	2	16	89	1202	/	5.44346	
10	2	16	57.6	1581	/	6.227319	
11	1	16	88.7	/	/	6.730445	
12	2	16	82	1500	/	7.715507	
13	2	16	77.3	1169	/	8.115239	
14	2	16	80	1742	/	8.80815	
15	3	16	50.4	1931	1929	9.091221	
16	1	16	98.9	/	/	10.02436	
17	1	16	89.7	/	/	10.58982	
18	2	16	83.3	1214	/	11.21799	
19	1	16	58.3	/	/	11.64791	

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	3	17	50.6	1548	1097	0.399796	1
1	2	17	64.5	1500	/	2.327873	
2	3	17	94.8	1404	1130	3.251223	
3	2	17	58.1	1059	/	5.060269	
4	2	17	97.5	1377	/	6.552098	
5	2	17	55.3	1002	/	8.498008	
6	2	17	84.4	1597	/	9.64705	
7	2	17	71.6	1740	/	10.66885	

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	3	15	87.9	1249	1099	0.857268	0
1	2	15	93.5	1822	/	1.332422	
2	2	15	93.9	1172	/	3.137657	
3	2	15	98.2	1514	/	3.629202	
4	2	15	55.2	1075	/	5.012776	
5	3	15	56.4	1214	1777	5.798083	
6	1	15	74.7	/	/	6.846439	
7	2	15	64.3	1613	/	8.251644	
8	3	15	77.3	1067	1960	9.73404	
9	3	15	63.2	1957	1370	10.07665	
10	2	15	66.6	1789	/	11.07355	

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	2	9	94.7	1940	/	0.119458	1
1	2	9	78.1	1559	/	0.970505	
2	3	9	84.5	1115	1805	1.897543	
3	2	9	80.4	1287	/	3.28488	
4	2	9	98.6	1624	/	3.872147	
5	2	9	69	1187	/	4.975465	
6	3	9	98.8	1082	1078	5.34685	
7	3	9	53.3	1825	1159	6.424319	
8	2	9	70.1	1200	/	7.037171	
9	2	9	51.1	1326	/	7.950455	
10	2	9	64.7	1352	/	8.861633	
11	2	9	98.1	1571	/	9.554014	
12	2	9	88.1	1716	/	10.88572	
13	2	9	50.5	1149	/	11.5658	

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	2	15	66	1704	/	0.380676	1
1	2	15	85.8	1902	/	0.958107	
2	3	15	77.4	1815	1678	2.309037	
3	1	15	90.8	/	/	3.278713	
4	3	15	90.3	1240	1365	3.533239	
5	2	15	57.2	1278	/	5.070244	
6	2	15	92.2	1033	/	5.834311	
7	1	15	81	/	/	6.374863	
8	2	15	53.1	1982	/	7.580727	
9	2	15	77.1	1650	/	8.551585	
10	2	15	64.2	1091	/	9.128278	
11	2	15	51.3	1386	/	9.736002	
12	2	15	99.1	1562	/	10.97349	
13	2	15	82	1287	/	11.47766	

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	3	17	64.2	1433	1794	1.083888	1
1	1	17	50.3	/	/	2.077188	
2	1	17	57.5	/	/	2.286241	
3	2	17	96.7	1352	/	3.897716	
4	1	17	69.5	/	/	4.849047	
5	3	17	58.3	1267	1513	6.244313	
6	3	17	57.9	1806	1369	6.982781	
7	3	17	81.7	1416	1849	7.883728	
8	2	17	92.9	1142	/	9.713077	
9	3	17	87.3	1625	1827	10.58074	
10	3	17	95.1	1084	1553	11.36344	

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	3	7	66.5	1078	1832	0.003522	1
1	3	7	50.8	1645	1098	1.077752	
2	3	7	70.4	1204	1210	1.852782	
3	2	7	68.8	1048	/	2.753623	
4	1	7	55.4	/	/	3.447992	
5	1	7	99.5	/	/	4.00754	
6	1	7	82	/	/	4.700844	
7	3	7	75.6	1883	1465	5.396435	
8	1	7	58.5	/	/	6.476144	
9	2	7	88.1	1483	/	6.810529	
10	2	7	67.7	1921	/	7.696119	
11	3	7	58.5	1677	1423	8.608721	
12	2	7	97.9	1261	/	9.179444	
13	1	7	76.5	/	/	9.882841	
14	3	7	62.8	1892	1369	10.66328	
15	1	7	85.8	/	/	11.58573	

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	5565.0, 5390.0, 5619.0, 5501.0, 5309.0, 5334.0, 5658.0, 5716.0, 5419.0, 5655.0, 5429.0, 5374.0, 5453.0, 5509.0, 5522.0, 5621.0, 5671.0, 5340.0, 5383.0, 5704.0, 5478.0, 5624.0, 5492.0, 5257.0, 5617.0, 5505.0, 5449.0, 5427.0, 5415.0, 5282.0, 5250.0, 5496.0, 5709.0, 5642.0, 5657.0, 5426.0, 5612.0, 5274.0, 5569.0, 5329.0, 5284.0, 5510.0, 5295.0, 5337.0, 5629.0, 5368.0, 5465.0, 5339.0, 5663.0, 5669.0, 5630.0, 5475.0, 5267.0, 5385.0, 5365.0, 5710.0, 5314.0, 5585.0, 5409.0, 5679.0, 5378.0, 5468.0, 5518.0, 5547.0, 5459.0, 5479.0, 5561.0, 5583.0, 5417.0, 5692.0, 5398.0, 5582.0, 5286.0, 5394.0, 5714.0, 5379.0, 5718.0, 5254.0, 5500.0, 5588.0, 5288.0, 5305.0, 5455.0, 5402.0, 5393.0, 5572.0, 5372.0, 5256.0, 5446.0, 5587.0, 5690.0, 5373.0, 5381.0, 5678.0, 5609.0, 5705.0, 5664.0, 5488.0, 5405.0, 5264.0
2	5290	9	1	333	1	5680.0, 5568.0, 5690.0, 5291.0, 5661.0, 5483.0, 5361.0, 5548.0, 5675.0, 5625.0, 5694.0, 5444.0, 5647.0, 5573.0, 5353.0, 5587.0, 5394.0, 5456.0, 5567.0, 5455.0, 5542.0, 5618.0, 5377.0, 5339.0, 5299.0, 5513.0, 5709.0, 5319.0, 5698.0, 5609.0, 5519.0, 5460.0, 5635.0, 5405.0, 5465.0, 5450.0, 5439.0, 5659.0, 5479.0, 5553.0, 5471.0, 5317.0, 5667.0, 5514.0, 5579.0, 5351.0, 5537.0, 5649.0, 5280.0, 5357.0, 5633.0, 5415.0, 5653.0, 5421.0, 5538.0, 5341.0, 5594.0, 5372.0, 5583.0, 5253.0, 5507.0, 5523.0, 5477.0, 5622.0, 5619.0, 5601.0, 5292.0, 5286.0, 5403.0, 5364.0, 5389.0, 5446.0, 5498.0, 5342.0, 5329.0, 5502.0, 5491.0, 5371.0, 5586.0, 5612.0, 5522.0, 5362.0, 5717.0, 5273.0, 5492.0, 5359.0, 5671.0, 5716.0, 5556.0, 5472.0, 5505.0, 5540.0, 5466.0, 5509.0, 5530.0, 5418.0, 5704.0, 5521.0, 5599.0, 5641.0
3	5290	9	1	333	1	5568.0, 5639.0, 5259.0, 5572.0, 5692.0, 5586.0, 5297.0, 5553.0, 5672.0, 5344.0, 5480.0, 5543.0, 5448.0, 5666.0, 5551.0, 5400.0, 5542.0, 5646.0, 5371.0, 5254.0, 5509.0, 5414.0, 5563.0, 5295.0, 5389.0, 5580.0, 5482.0, 5693.0, 5709.0, 5662.0, 5714.0, 5416.0, 5385.0, 5487.0, 5618.0, 5434.0, 5413.0, 5583.0, 5705.0, 5426.0, 5325.0, 5636.0, 5357.0, 5351.0, 5274.0, 5318.0, 5524.0, 5717.0, 5359.0, 5514.0, 5461.0, 5531.0, 5503.0, 5320.0, 5608.0, 5421.0, 5393.0, 5313.0, 5435.0, 5569.0, 5533.0, 5659.0, 5479.0, 5517.0, 5364.0,

						5591.0, 5649.0, 5606.0, 5444.0, 5673.0, 5528.0, 5547.0, 5638.0, 5667.0, 5665.0, 5331.0, 5537.0, 5687.0, 5706.0, 5499.0, 5632.0, 5653.0, 5260.0, 5367.0, 5430.0, 5657.0, 5605.0, 5326.0, 5272.0, 5354.0, 5496.0, 5324.0, 5360.0, 5256.0, 5392.0, 5595.0, 5299.0, 5397.0, 5471.0, 5356.0
4	5290	9	1	333	1	5369.0, 5400.0, 5540.0, 5712.0, 5544.0, 5432.0, 5600.0, 5611.0, 5633.0, 5723.0, 5297.0, 5609.0, 5457.0, 5459.0, 5259.0, 5571.0, 5514.0, 5440.0, 5572.0, 5490.0, 5706.0, 5379.0, 5570.0, 5341.0, 5290.0, 5333.0, 5376.0, 5296.0, 5618.0, 5289.0, 5342.0, 5507.0, 5319.0, 5399.0, 5431.0, 5513.0, 5555.0, 5478.0, 5579.0, 5561.0, 5404.0, 5569.0, 5302.0, 5352.0, 5402.0, 5350.0, 5576.0, 5630.0, 5306.0, 5406.0, 5500.0, 5565.0, 5558.0, 5329.0, 5538.0, 5299.0, 5456.0, 5509.0, 5714.0, 5552.0, 5709.0, 5293.0, 5648.0, 5446.0, 5343.0, 5662.0, 5666.0, 5467.0, 5451.0, 5322.0, 5311.0, 5375.0, 5491.0, 5374.0, 5539.0, 5372.0, 5465.0, 5647.0, 5327.0, 5282.0, 5545.0, 5493.0, 5477.0, 5582.0, 5255.0, 5286.0, 5520.0, 5267.0, 5497.0, 5663.0, 5542.0, 5264.0, 5287.0, 5704.0, 5487.0, 5466.0, 5586.0, 5644.0, 5683.0, 5641.0
5	5290	9	1	333	1	5402.0, 5441.0, 5589.0, 5272.0, 5586.0, 5648.0, 5462.0, 5445.0, 5304.0, 5391.0, 5294.0, 5696.0, 5571.0, 5327.0, 5554.0, 5343.0, 5403.0, 5482.0, 5449.0, 5512.0, 5584.0, 5621.0, 5437.0, 5288.0, 5536.0, 5687.0, 5250.0, 5474.0, 5400.0, 5421.0, 5517.0, 5388.0, 5459.0, 5456.0, 5429.0, 5553.0, 5493.0, 5279.0, 5281.0, 5608.0, 5292.0, 5722.0, 5350.0, 5465.0, 5484.0, 5405.0, 5671.0, 5358.0, 5265.0, 5544.0, 5658.0, 5566.0, 5290.0, 5548.0, 5669.0, 5593.0, 5338.0, 5261.0, 5691.0, 5433.0, 5469.0, 5619.0, 5264.0, 5695.0, 5721.0, 5471.0, 5601.0, 5547.0, 5513.0, 5672.0, 5277.0, 5597.0, 5492.0, 5464.0, 5253.0, 5389.0, 5475.0, 5448.0, 5457.0, 5717.0, 5630.0, 5657.0, 5337.0, 5339.0, 5486.0, 5505.0, 5642.0, 5502.0, 5334.0, 5424.0, 5466.0, 5450.0, 5509.0, 5583.0, 5607.0, 5561.0, 5500.0, 5677.0, 5588.0, 5423.0
6	5290	9	1	333	1	5563.0, 5690.0, 5509.0, 5610.0, 5296.0, 5496.0, 5696.0, 5404.0, 5439.0, 5476.0, 5619.0, 5624.0, 5325.0, 5339.0, 5444.0, 5530.0, 5501.0, 5629.0, 5709.0, 5318.0, 5414.0, 5703.0, 5645.0, 5293.0, 5457.0, 5331.0, 5537.0, 5285.0, 5371.0, 5488.0, 5697.0, 5454.0, 5564.0, 5699.0, 5590.0, 5529.0, 5578.0, 5704.0, 5679.0, 5345.0, 5683.0, 5388.0, 5549.0, 5252.0, 5473.0, 5409.0, 5500.0, 5524.0, 5416.0, 5712.0, 5341.0, 5557.0, 5424.0, 5282.0, 5672.0, 5398.0, 5299.0, 5575.0, 5618.0, 5275.0, 5546.0, 5334.0, 5393.0, 5532.0, 5535.0,

						5402.0, 5572.0, 5513.0, 5584.0, 5441.0, 5613.0, 5595.0, 5271.0, 5497.0, 5562.0, 5356.0, 5653.0, 5541.0, 5656.0, 5615.0, 5346.0, 5540.0, 5330.0, 5662.0, 5588.0, 5354.0, 5433.0, 5707.0, 5597.0, 5583.0, 5379.0, 5493.0, 5307.0, 5337.0, 5263.0, 5407.0, 5425.0, 5491.0, 5274.0, 5408.0
7	5290	9	1	333	1	5383.0, 5477.0, 5459.0, 5278.0, 5392.0, 5504.0, 5382.0, 5421.0, 5499.0, 5408.0, 5721.0, 5611.0, 5627.0, 5495.0, 5526.0, 5615.0, 5582.0, 5291.0, 5305.0, 5370.0, 5513.0, 5292.0, 5381.0, 5626.0, 5429.0, 5678.0, 5661.0, 5700.0, 5540.0, 5398.0, 5505.0, 5635.0, 5479.0, 5601.0, 5578.0, 5322.0, 5530.0, 5298.0, 5549.0, 5564.0, 5299.0, 5533.0, 5302.0, 5701.0, 5329.0, 5313.0, 5612.0, 5405.0, 5350.0, 5523.0, 5686.0, 5524.0, 5597.0, 5719.0, 5300.0, 5604.0, 5663.0, 5409.0, 5284.0, 5272.0, 5521.0, 5603.0, 5644.0, 5487.0, 5320.0, 5371.0, 5338.0, 5690.0, 5553.0, 5502.0, 5709.0, 5688.0, 5562.0, 5507.0, 5443.0, 5346.0, 5706.0, 5637.0, 5532.0, 5277.0, 5331.0, 5646.0, 5568.0, 5653.0, 5473.0, 5574.0, 5550.0, 5546.0, 5363.0, 5645.0, 5310.0, 5695.0, 5641.0, 5463.0, 5283.0, 5478.0, 5519.0, 5632.0, 5682.0, 5434.0
8	5290	9	1	333	1	5627.0, 5503.0, 5359.0, 5444.0, 5620.0, 5257.0, 5421.0, 5541.0, 5451.0, 5718.0, 5488.0, 5710.0, 5530.0, 5723.0, 5559.0, 5707.0, 5294.0, 5667.0, 5493.0, 5485.0, 5704.0, 5666.0, 5576.0, 5568.0, 5446.0, 5259.0, 5331.0, 5659.0, 5584.0, 5416.0, 5330.0, 5634.0, 5327.0, 5255.0, 5525.0, 5700.0, 5483.0, 5468.0, 5418.0, 5469.0, 5484.0, 5354.0, 5580.0, 5703.0, 5534.0, 5674.0, 5708.0, 5480.0, 5265.0, 5417.0, 5383.0, 5588.0, 5676.0, 5508.0, 5594.0, 5705.0, 5690.0, 5512.0, 5665.0, 5638.0, 5329.0, 5368.0, 5333.0, 5680.0, 5449.0, 5517.0, 5313.0, 5571.0, 5427.0, 5554.0, 5511.0, 5276.0, 5496.0, 5285.0, 5284.0, 5711.0, 5372.0, 5624.0, 5673.0, 5655.0, 5641.0, 5610.0, 5537.0, 5593.0, 5450.0, 5692.0, 5369.0, 5385.0, 5695.0, 5309.0, 5291.0, 5355.0, 5365.0, 5322.0, 5387.0, 5533.0, 5504.0, 5714.0, 5438.0, 5477.0
9	5290	9	1	333	1	5647.0, 5594.0, 5431.0, 5330.0, 5408.0, 5500.0, 5627.0, 5617.0, 5279.0, 5695.0, 5483.0, 5329.0, 5447.0, 5460.0, 5276.0, 5607.0, 5710.0, 5567.0, 5444.0, 5454.0, 5420.0, 5376.0, 5703.0, 5344.0, 5504.0, 5354.0, 5257.0, 5307.0, 5663.0, 5677.0, 5382.0, 5717.0, 5449.0, 5657.0, 5322.0, 5345.0, 5644.0, 5512.0, 5624.0, 5446.0, 5419.0, 5621.0, 5609.0, 5405.0, 5587.0, 5619.0, 5475.0, 5440.0, 5337.0, 5519.0, 5696.0, 5262.0, 5570.0, 5574.0, 5286.0, 5403.0, 5539.0, 5470.0, 5642.0, 5434.0, 5599.0, 5317.0, 5266.0, 5702.0, 5369.0,

						5468.0, 5722.0, 5306.0, 5690.0, 5288.0, 5637.0, 5421.0, 5323.0, 5568.0, 5410.0, 5679.0, 5370.0, 5295.0, 5715.0, 5641.0, 5302.0, 5506.0, 5357.0, 5537.0, 5636.0, 5566.0, 5598.0, 5397.0, 5308.0, 5481.0, 5301.0, 5628.0, 5364.0, 5437.0, 5412.0, 5415.0, 5272.0, 5315.0, 5334.0, 5590.0
10	5290	9	1	333	1	5337.0, 5432.0, 5484.0, 5478.0, 5486.0, 5444.0, 5252.0, 5394.0, 5690.0, 5411.0, 5559.0, 5356.0, 5528.0, 5251.0, 5297.0, 5471.0, 5407.0, 5499.0, 5601.0, 5577.0, 5417.0, 5344.0, 5620.0, 5502.0, 5582.0, 5516.0, 5422.0, 5638.0, 5529.0, 5587.0, 5307.0, 5359.0, 5718.0, 5405.0, 5504.0, 5572.0, 5304.0, 5643.0, 5255.0, 5440.0, 5392.0, 5419.0, 5720.0, 5266.0, 5347.0, 5450.0, 5498.0, 5515.0, 5684.0, 5611.0, 5589.0, 5630.0, 5689.0, 5303.0, 5665.0, 5575.0, 5514.0, 5388.0, 5438.0, 5590.0, 5481.0, 5275.0, 5319.0, 5401.0, 5646.0, 5619.0, 5403.0, 5692.0, 5306.0, 5376.0, 5538.0, 5523.0, 5640.0, 5418.0, 5712.0, 5318.0, 5276.0, 5377.0, 5452.0, 5607.0, 5309.0, 5487.0, 5254.0, 5423.0, 5363.0, 5263.0, 5293.0, 5404.0, 5393.0, 5585.0, 5324.0, 5670.0, 5713.0, 5477.0, 5311.0, 5447.0, 5542.0, 5352.0, 5627.0, 5539.0
11	5290	9	1	333	1	5269.0, 5693.0, 5609.0, 5310.0, 5636.0, 5368.0, 5392.0, 5671.0, 5520.0, 5306.0, 5713.0, 5339.0, 5580.0, 5686.0, 5271.0, 5503.0, 5500.0, 5304.0, 5447.0, 5505.0, 5662.0, 5289.0, 5321.0, 5502.0, 5516.0, 5449.0, 5359.0, 5436.0, 5432.0, 5445.0, 5525.0, 5518.0, 5254.0, 5615.0, 5252.0, 5281.0, 5703.0, 5416.0, 5444.0, 5325.0, 5635.0, 5463.0, 5282.0, 5595.0, 5332.0, 5422.0, 5613.0, 5434.0, 5673.0, 5606.0, 5293.0, 5634.0, 5528.0, 5675.0, 5581.0, 5533.0, 5323.0, 5307.0, 5366.0, 5313.0, 5427.0, 5302.0, 5718.0, 5395.0, 5698.0, 5412.0, 5299.0, 5397.0, 5721.0, 5334.0, 5377.0, 5492.0, 5391.0, 5556.0, 5562.0, 5305.0, 5351.0, 5552.0, 5303.0, 5651.0, 5665.0, 5409.0, 5661.0, 5426.0, 5687.0, 5345.0, 5284.0, 5659.0, 5453.0, 5279.0, 5387.0, 5364.0, 5643.0, 5365.0, 5557.0, 5346.0, 5314.0, 5298.0, 5383.0, 5587.0
12	5290	9	1	333	1	5551.0, 5408.0, 5340.0, 5710.0, 5369.0, 5365.0, 5273.0, 5477.0, 5356.0, 5367.0, 5375.0, 5688.0, 5696.0, 5691.0, 5552.0, 5485.0, 5521.0, 5405.0, 5306.0, 5666.0, 5314.0, 5336.0, 5723.0, 5384.0, 5364.0, 5531.0, 5651.0, 5322.0, 5321.0, 5534.0, 5325.0, 5636.0, 5358.0, 5698.0, 5576.0, 5679.0, 5717.0, 5705.0, 5298.0, 5459.0, 5495.0, 5586.0, 5525.0, 5600.0, 5453.0, 5337.0, 5566.0, 5597.0, 5299.0, 5421.0, 5541.0, 5598.0, 5622.0, 5643.0, 5454.0, 5449.0, 5466.0, 5295.0, 5571.0, 5496.0, 5464.0, 5699.0, 5677.0, 5361.0, 5574.0,

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13	5290	9	1	333	1	5364.0, 5650.0, 5429.0, 5581.0, 5712.0, 5666.0, 5556.0, 5341.0, 5434.0, 5619.0, 5593.0, 5346.0, 5574.0, 5462.0, 5279.0, 5555.0, 5383.0, 5717.0, 5610.0, 5521.0, 5472.0, 5611.0, 5438.0, 5526.0, 5675.0, 5721.0, 5272.0, 5465.0, 5287.0, 5259.0, 5696.0, 5647.0, 5430.0, 5324.0, 5422.0, 5392.0, 5286.0, 5432.0, 5691.0, 5592.0, 5524.0, 5264.0, 5695.0, 5651.0, 5251.0, 5423.0, 5267.0, 5348.0, 5707.0, 5470.0, 5268.0, 5411.0, 5547.0, 5572.0, 5632.0, 5720.0, 5517.0, 5369.0, 5672.0, 5316.0, 5503.0, 5553.0, 5431.0, 5628.0, 5266.0, 5573.0, 5389.0, 5391.0, 5536.0, 5402.0, 5347.0, 5296.0, 5625.0, 5566.0, 5350.0, 5322.0, 5660.0, 5687.0, 5455.0, 5471.0, 5560.0, 5456.0, 5549.0, 5475.0, 5559.0, 5454.0, 5676.0, 5330.0, 5502.0, 5478.0, 5436.0, 5708.0, 5594.0, 5450.0, 5379.0, 5571.0, 5435.0, 5535.0, 5445.0, 5596.0
14	5290	9	1	333	1	5418.0, 5535.0, 5309.0, 5345.0, 5677.0, 5505.0, 5381.0, 5284.0, 5370.0, 5624.0, 5610.0, 5592.0, 5518.0, 5692.0, 5338.0, 5672.0, 5598.0, 5437.0, 5307.0, 5402.0, 5258.0, 5274.0, 5625.0, 5682.0, 5608.0, 5412.0, 5427.0, 5355.0, 5689.0, 5350.0, 5501.0, 5504.0, 5558.0, 5549.0, 5260.0, 5643.0, 5475.0, 5688.0, 5599.0, 5377.0, 5283.0, 5435.0, 5462.0, 5544.0, 5442.0, 5468.0, 5276.0, 5666.0, 5304.0, 5593.0, 5579.0, 5659.0, 5680.0, 5322.0, 5527.0, 5413.0, 5562.0, 5653.0, 5362.0, 5319.0, 5335.0, 5408.0, 5686.0, 5602.0, 5551.0, 5323.0, 5459.0, 5533.0, 5538.0, 5364.0, 5334.0, 5285.0, 5554.0, 5375.0, 5440.0, 5357.0, 5343.0, 5627.0, 5461.0, 5676.0, 5405.0, 5503.0, 5300.0, 5450.0, 5472.0, 5429.0, 5324.0, 5584.0, 5312.0, 5398.0, 5410.0, 5320.0, 5531.0, 5290.0, 5702.0, 5374.0, 5521.0, 5348.0, 5295.0, 5282.0
15	5290	9	1	333	1	5342.0, 5706.0, 5518.0, 5339.0, 5687.0, 5587.0, 5432.0, 5469.0, 5255.0, 5366.0, 5640.0, 5357.0, 5254.0, 5391.0, 5256.0, 5591.0, 5615.0, 5319.0, 5600.0, 5598.0, 5421.0, 5493.0, 5666.0, 5268.0, 5718.0, 5592.0, 5575.0, 5369.0, 5542.0, 5525.0, 5459.0, 5619.0, 5437.0, 5561.0, 5693.0, 5536.0, 5410.0, 5434.0, 5350.0, 5616.0, 5502.0, 5530.0, 5721.0, 5567.0, 5413.0, 5562.0, 5269.0, 5633.0, 5506.0, 5405.0, 5519.0, 5450.0, 5396.0, 5647.0, 5414.0, 5294.0, 5313.0, 5334.0, 5680.0, 5462.0, 5321.0, 5468.0, 5708.0, 5511.0, 5284.0,

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17	5290	9	1	333	1	5502.0, 5329.0, 5510.0, 5349.0, 5528.0, 5621.0, 5697.0, 5625.0, 5509.0, 5722.0, 5410.0, 5426.0, 5723.0, 5552.0, 5373.0, 5304.0, 5462.0, 5456.0, 5635.0, 5693.0, 5351.0, 5659.0, 5305.0, 5363.0, 5684.0, 5391.0, 5397.0, 5342.0, 5483.0, 5296.0, 5301.0, 5574.0, 5372.0, 5279.0, 5459.0, 5266.0, 5325.0, 5345.0, 5344.0, 5257.0, 5255.0, 5358.0, 5558.0, 5494.0, 5278.0, 5645.0, 5690.0, 5268.0, 5375.0, 5486.0, 5669.0, 5300.0, 5507.0, 5253.0, 5634.0, 5603.0, 5586.0, 5660.0, 5386.0, 5331.0, 5298.0, 5488.0, 5599.0, 5406.0, 5478.0, 5442.0, 5641.0, 5328.0, 5421.0, 5464.0, 5336.0, 5374.0, 5546.0, 5271.0, 5504.0, 5655.0, 5496.0, 5316.0, 5604.0, 5678.0, 5290.0, 5657.0, 5480.0, 5307.0, 5582.0, 5524.0, 5701.0, 5715.0, 5680.0, 5313.0, 5638.0, 5595.0, 5571.0, 5343.0, 5340.0, 5334.0, 5326.0, 5532.0, 5623.0, 5476.0
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						5526.0, 5636.0, 5347.0, 5693.0, 5528.0, 5292.0, 5445.0, 5514.0, 5344.0, 5595.0, 5699.0, 5513.0, 5441.0, 5621.0, 5674.0, 5695.0, 5575.0, 5392.0, 5269.0, 5306.0, 5377.0, 5684.0, 5487.0, 5707.0, 5393.0, 5485.0, 5623.0, 5368.0, 5443.0, 5560.0, 5489.0, 5718.0, 5255.0, 5706.0, 5639.0
19	5290	9	1	333	1	5470.0, 5456.0, 5302.0, 5342.0, 5467.0, 5476.0, 5396.0, 5637.0, 5516.0, 5490.0, 5612.0, 5579.0, 5503.0, 5554.0, 5567.0, 5352.0, 5500.0, 5700.0, 5719.0, 5706.0, 5329.0, 5574.0, 5543.0, 5600.0, 5310.0, 5409.0, 5473.0, 5478.0, 5433.0, 5715.0, 5591.0, 5513.0, 5317.0, 5547.0, 5269.0, 5261.0, 5268.0, 5538.0, 5648.0, 5633.0, 5418.0, 5585.0, 5708.0, 5294.0, 5614.0, 5298.0, 5531.0, 5620.0, 5634.0, 5689.0, 5598.0, 5596.0, 5400.0, 5594.0, 5437.0, 5609.0, 5616.0, 5463.0, 5718.0, 5514.0, 5421.0, 5537.0, 5344.0, 5316.0, 5309.0, 5488.0, 5313.0, 5267.0, 5658.0, 5398.0, 5607.0, 5509.0, 5677.0, 5372.0, 5676.0, 5449.0, 5423.0, 5296.0, 5370.0, 5262.0, 5443.0, 5642.0, 5438.0, 5480.0, 5704.0, 5391.0, 5599.0, 5581.0, 5619.0, 5716.0, 5548.0, 5577.0, 5557.0, 5462.0, 5287.0, 5366.0, 5626.0, 5657.0, 5671.0, 5601.0
20	5290	9	1	333	1	5563.0, 5661.0, 5663.0, 5515.0, 5628.0, 5252.0, 5682.0, 5595.0, 5278.0, 5676.0, 5275.0, 5444.0, 5522.0, 5510.0, 5562.0, 5688.0, 5648.0, 5641.0, 5477.0, 5375.0, 5691.0, 5436.0, 5552.0, 5561.0, 5379.0, 5447.0, 5705.0, 5294.0, 5626.0, 5344.0, 5428.0, 5718.0, 5356.0, 5346.0, 5599.0, 5426.0, 5308.0, 5604.0, 5268.0, 5719.0, 5540.0, 5440.0, 5312.0, 5254.0, 5501.0, 5406.0, 5517.0, 5402.0, 5371.0, 5330.0, 5461.0, 5644.0, 5690.0, 5407.0, 5479.0, 5544.0, 5293.0, 5442.0, 5405.0, 5253.0, 5622.0, 5715.0, 5703.0, 5328.0, 5365.0, 5712.0, 5717.0, 5504.0, 5598.0, 5531.0, 5486.0, 5353.0, 5398.0, 5496.0, 5338.0, 5507.0, 5422.0, 5660.0, 5383.0, 5362.0, 5470.0, 5423.0, 5335.0, 5596.0, 5408.0, 5593.0, 5468.0, 5524.0, 5348.0, 5311.0, 5577.0, 5667.0, 5525.0, 5646.0, 5567.0, 5272.0, 5484.0, 5258.0, 5607.0, 5629.0
21	5290	9	1	333	1	5552.0, 5394.0, 5656.0, 5473.0, 5449.0, 5586.0, 5578.0, 5714.0, 5567.0, 5541.0, 5431.0, 5699.0, 5352.0, 5442.0, 5280.0, 5291.0, 5460.0, 5685.0, 5251.0, 5329.0, 5502.0, 5608.0, 5581.0, 5387.0, 5350.0, 5304.0, 5631.0, 5286.0, 5443.0, 5301.0, 5679.0, 5682.0, 5302.0, 5412.0, 5571.0, 5256.0, 5633.0, 5311.0, 5618.0, 5452.0, 5496.0, 5488.0, 5340.0, 5580.0, 5640.0, 5313.0, 5526.0, 5505.0, 5617.0, 5312.0, 5474.0, 5423.0, 5440.0, 5527.0, 5590.0, 5533.0, 5674.0, 5683.0, 5385.0, 5668.0, 5397.0, 5341.0, 5630.0, 5294.0, 5563.0,

						5521.0, 5314.0, 5253.0, 5360.0, 5272.0, 5601.0, 5723.0, 5261.0, 5374.0, 5697.0, 5564.0, 5593.0, 5437.0, 5427.0, 5546.0, 5424.0, 5494.0, 5511.0, 5426.0, 5576.0, 5648.0, 5547.0, 5594.0, 5655.0, 5486.0, 5553.0, 5611.0, 5454.0, 5625.0, 5665.0, 5489.0, 5371.0, 5468.0, 5548.0, 5283.0
22	5290	9	1	333	1	5333.0, 5358.0, 5715.0, 5310.0, 5533.0, 5323.0, 5331.0, 5686.0, 5691.0, 5545.0, 5721.0, 5678.0, 5687.0, 5371.0, 5298.0, 5291.0, 5427.0, 5304.0, 5295.0, 5724.0, 5571.0, 5484.0, 5417.0, 5704.0, 5494.0, 5607.0, 5648.0, 5257.0, 5360.0, 5369.0, 5507.0, 5393.0, 5558.0, 5517.0, 5575.0, 5380.0, 5438.0, 5364.0, 5608.0, 5447.0, 5720.0, 5272.0, 5398.0, 5499.0, 5435.0, 5669.0, 5426.0, 5633.0, 5574.0, 5643.0, 5611.0, 5483.0, 5508.0, 5348.0, 5619.0, 5600.0, 5415.0, 5309.0, 5688.0, 5621.0, 5335.0, 5394.0, 5623.0, 5584.0, 5535.0, 5354.0, 5296.0, 5383.0, 5512.0, 5700.0, 5542.0, 5270.0, 5471.0, 5317.0, 5390.0, 5630.0, 5258.0, 5345.0, 5693.0, 5556.0, 5710.0, 5497.0, 5442.0, 5455.0, 5425.0, 5496.0, 5350.0, 5267.0, 5506.0, 5722.0, 5445.0, 5559.0, 5492.0, 5456.0, 5543.0, 5709.0, 5581.0, 5640.0, 5260.0, 5440.0
23	5290	9	1	333	1	5366.0, 5499.0, 5446.0, 5506.0, 5719.0, 5447.0, 5610.0, 5656.0, 5381.0, 5315.0, 5599.0, 5674.0, 5513.0, 5318.0, 5644.0, 5701.0, 5500.0, 5398.0, 5421.0, 5457.0, 5475.0, 5474.0, 5343.0, 5491.0, 5720.0, 5515.0, 5336.0, 5341.0, 5408.0, 5663.0, 5452.0, 5704.0, 5450.0, 5565.0, 5598.0, 5494.0, 5706.0, 5375.0, 5631.0, 5689.0, 5481.0, 5363.0, 5496.0, 5537.0, 5588.0, 5386.0, 5437.0, 5524.0, 5427.0, 5335.0, 5476.0, 5353.0, 5540.0, 5593.0, 5303.0, 5633.0, 5505.0, 5277.0, 5579.0, 5470.0, 5669.0, 5267.0, 5387.0, 5632.0, 5455.0, 5650.0, 5441.0, 5430.0, 5289.0, 5271.0, 5445.0, 5561.0, 5511.0, 5643.0, 5661.0, 5683.0, 5394.0, 5682.0, 5509.0, 5434.0, 5402.0, 5671.0, 5585.0, 5623.0, 5301.0, 5453.0, 5372.0, 5686.0, 5512.0, 5462.0, 5591.0, 5274.0, 5432.0, 5534.0, 5536.0, 5451.0, 5641.0, 5486.0, 5390.0, 5573.0
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						5508.0, 5341.0, 5365.0, 5589.0, 5446.0, 5626.0, 5386.0, 5513.0, 5283.0, 5323.0, 5291.0, 5707.0, 5644.0, 5710.0, 5377.0, 5360.0, 5460.0, 5482.0, 5425.0, 5694.0, 5407.0, 5719.0, 5642.0, 5533.0, 5702.0, 5500.0, 5357.0, 5641.0, 5592.0, 5432.0, 5678.0, 5685.0, 5672.0, 5578.0, 5524.0
25	5290	9	1	333	1	5665.0, 5468.0, 5421.0, 5536.0, 5300.0, 5321.0, 5498.0, 5365.0, 5315.0, 5644.0, 5453.0, 5531.0, 5350.0, 5367.0, 5351.0, 5567.0, 5388.0, 5513.0, 5603.0, 5574.0, 5701.0, 5327.0, 5671.0, 5486.0, 5252.0, 5532.0, 5545.0, 5710.0, 5413.0, 5309.0, 5529.0, 5284.0, 5415.0, 5557.0, 5336.0, 5500.0, 5712.0, 5660.0, 5276.0, 5435.0, 5483.0, 5344.0, 5384.0, 5320.0, 5285.0, 5560.0, 5509.0, 5640.0, 5259.0, 5646.0, 5521.0, 5625.0, 5433.0, 5319.0, 5577.0, 5273.0, 5711.0, 5405.0, 5389.0, 5491.0, 5422.0, 5470.0, 5361.0, 5366.0, 5619.0, 5253.0, 5445.0, 5463.0, 5518.0, 5562.0, 5607.0, 5337.0, 5503.0, 5287.0, 5363.0, 5601.0, 5424.0, 5301.0, 5360.0, 5686.0, 5627.0, 5357.0, 5258.0, 5392.0, 5418.0, 5515.0, 5720.0, 5695.0, 5684.0, 5466.0, 5585.0, 5544.0, 5652.0, 5397.0, 5426.0, 5410.0, 5322.0, 5334.0, 5374.0, 5634.0
26	5290	9	1	333	1	5646.0, 5411.0, 5504.0, 5547.0, 5523.0, 5676.0, 5334.0, 5318.0, 5647.0, 5425.0, 5301.0, 5549.0, 5490.0, 5319.0, 5423.0, 5336.0, 5275.0, 5493.0, 5702.0, 5668.0, 5392.0, 5347.0, 5272.0, 5712.0, 5298.0, 5359.0, 5533.0, 5478.0, 5438.0, 5374.0, 5522.0, 5593.0, 5528.0, 5524.0, 5349.0, 5260.0, 5477.0, 5689.0, 5396.0, 5560.0, 5258.0, 5653.0, 5427.0, 5309.0, 5377.0, 5483.0, 5312.0, 5459.0, 5649.0, 5613.0, 5368.0, 5542.0, 5631.0, 5454.0, 5337.0, 5350.0, 5435.0, 5351.0, 5367.0, 5400.0, 5534.0, 5520.0, 5375.0, 5288.0, 5393.0, 5297.0, 5690.0, 5517.0, 5598.0, 5401.0, 5679.0, 5632.0, 5370.0, 5594.0, 5339.0, 5485.0, 5697.0, 5553.0, 5663.0, 5706.0, 5381.0, 5486.0, 5666.0, 5519.0, 5443.0, 5450.0, 5551.0, 5514.0, 5290.0, 5384.0, 5699.0, 5274.0, 5463.0, 5624.0, 5482.0, 5262.0, 5538.0, 5588.0, 5571.0, 5407.0
27	5290	9	1	333	1	5431.0, 5685.0, 5357.0, 5596.0, 5444.0, 5348.0, 5320.0, 5615.0, 5449.0, 5420.0, 5669.0, 5642.0, 5591.0, 5385.0, 5711.0, 5641.0, 5273.0, 5607.0, 5410.0, 5550.0, 5282.0, 5353.0, 5533.0, 5406.0, 5541.0, 5680.0, 5706.0, 5363.0, 5279.0, 5415.0, 5390.0, 5376.0, 5286.0, 5468.0, 5551.0, 5427.0, 5359.0, 5566.0, 5526.0, 5585.0, 5486.0, 5393.0, 5561.0, 5535.0, 5317.0, 5586.0, 5645.0, 5274.0, 5371.0, 5714.0, 5408.0, 5716.0, 5483.0, 5697.0, 5648.0, 5441.0, 5638.0, 5568.0, 5480.0, 5515.0, 5573.0, 5490.0, 5255.0, 5581.0, 5473.0,

						5399.0, 5439.0, 5671.0, 5567.0, 5523.0, 5433.0, 5285.0, 5343.0, 5375.0, 5618.0, 5263.0, 5458.0, 5457.0, 5717.0, 5496.0, 5474.0, 5344.0, 5373.0, 5598.0, 5629.0, 5329.0, 5440.0, 5522.0, 5318.0, 5452.0, 5470.0, 5542.0, 5686.0, 5405.0, 5333.0, 5516.0, 5414.0, 5512.0, 5719.0, 5593.0
28	5290	9	1	333	1	5472.0, 5267.0, 5335.0, 5564.0, 5295.0, 5557.0, 5501.0, 5343.0, 5359.0, 5432.0, 5378.0, 5377.0, 5265.0, 5677.0, 5593.0, 5416.0, 5715.0, 5426.0, 5510.0, 5323.0, 5422.0, 5576.0, 5330.0, 5319.0, 5656.0, 5256.0, 5483.0, 5705.0, 5624.0, 5515.0, 5307.0, 5484.0, 5280.0, 5409.0, 5321.0, 5262.0, 5539.0, 5716.0, 5291.0, 5580.0, 5285.0, 5412.0, 5697.0, 5423.0, 5368.0, 5340.0, 5455.0, 5349.0, 5634.0, 5447.0, 5680.0, 5303.0, 5333.0, 5477.0, 5597.0, 5674.0, 5341.0, 5306.0, 5364.0, 5509.0, 5661.0, 5480.0, 5279.0, 5701.0, 5550.0, 5286.0, 5440.0, 5723.0, 5361.0, 5641.0, 5640.0, 5425.0, 5688.0, 5511.0, 5554.0, 5628.0, 5679.0, 5415.0, 5670.0, 5544.0, 5552.0, 5449.0, 5380.0, 5326.0, 5276.0, 5530.0, 5400.0, 5577.0, 5717.0, 5671.0, 5367.0, 5506.0, 5277.0, 5665.0, 5360.0, 5466.0, 5429.0, 5305.0, 5313.0, 5588.0
29	5290	9	1	333	1	5488.0, 5572.0, 5700.0, 5628.0, 5445.0, 5437.0, 5709.0, 5632.0, 5381.0, 5500.0, 5722.0, 5712.0, 5678.0, 5328.0, 5609.0, 5689.0, 5312.0, 5347.0, 5403.0, 5583.0, 5641.0, 5380.0, 5513.0, 5431.0, 5521.0, 5475.0, 5373.0, 5504.0, 5406.0, 5669.0, 5698.0, 5676.0, 5286.0, 5315.0, 5713.0, 5291.0, 5690.0, 5477.0, 5307.0, 5394.0, 5705.0, 5270.0, 5523.0, 5517.0, 5672.0, 5593.0, 5551.0, 5545.0, 5360.0, 5371.0, 5293.0, 5502.0, 5401.0, 5370.0, 5697.0, 5356.0, 5479.0, 5569.0, 5533.0, 5422.0, 5560.0, 5297.0, 5547.0, 5592.0, 5537.0, 5484.0, 5674.0, 5421.0, 5480.0, 5711.0, 5428.0, 5322.0, 5331.0, 5425.0, 5590.0, 5416.0, 5501.0, 5714.0, 5279.0, 5651.0, 5607.0, 5473.0, 5549.0, 5345.0, 5624.0, 5652.0, 5349.0, 5650.0, 5439.0, 5629.0, 5363.0, 5605.0, 5435.0, 5666.0, 5611.0, 5392.0, 5253.0, 5316.0, 5426.0, 5704.0
30	5290	9	1	333	1	5583.0, 5410.0, 5323.0, 5473.0, 5370.0, 5426.0, 5622.0, 5510.0, 5395.0, 5516.0, 5588.0, 5353.0, 5447.0, 5333.0, 5615.0, 5642.0, 5667.0, 5456.0, 5401.0, 5471.0, 5507.0, 5420.0, 5557.0, 5405.0, 5688.0, 5616.0, 5629.0, 5652.0, 5587.0, 5610.0, 5668.0, 5559.0, 5532.0, 5265.0, 5691.0, 5274.0, 5542.0, 5313.0, 5694.0, 5538.0, 5497.0, 5409.0, 5639.0, 5540.0, 5697.0, 5522.0, 5659.0, 5690.0, 5451.0, 5255.0, 5563.0, 5594.0, 5407.0, 5578.0, 5293.0, 5560.0, 5469.0, 5467.0, 5533.0, 5592.0, 5477.0, 5711.0, 5625.0, 5609.0, 5566.0,

						5478.0, 5391.0, 5567.0, 5359.0, 5297.0, 5443.0, 5375.0, 5696.0, 5348.0, 5669.0, 5530.0, 5374.0, 5534.0, 5296.0, 5438.0, 5460.0, 5260.0, 5390.0, 5486.0, 5698.0, 5402.0, 5437.0, 5310.0, 5653.0, 5645.0, 5580.0, 5492.0, 5408.0, 5422.0, 5342.0, 5448.0, 5634.0, 5657.0, 5276.0, 5450.0

5470-5725MHz, 20MHz Bandwidth

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	93.3%	60%	Pass
Type 1B	15	100%		
Type 2	30	83.3%	60%	Pass
Type 3	30	83.3 %	60%	Pass
Type 4	30	86.7 %	60%	Pass
Aggregate (Type1 to 4)	120	87.5 %	80%	Pass
Type 5	30	100%	80%	Pass
Type 6	30	100 %	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	59	1	898	1
2	5500	76	1	698	1
3	5500	83	1	638	1
4	5500	70	1	758	1
5	5500	99	1	538	1
6	5500	65	1	818	1
7	5500	68	1	778	1
8	5500	58	1	918	1
9	5500	18	1	3066	0
10	5500	67	1	798	1
11	5500	57	1	938	1
12	5500	63	1	838	1
13	5500	72	1	738	1
14	5500	78	1	678	1
15	5500	92	1	578	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	32	1	1679	1
2	5500	32	1	1669	1
3	5500	35	1	1523	1
4	5500	41	1	1290	1
5	5500	30	1	1802	1
6	5500	60	1	880	1
7	5500	33	1	1644	1
8	5500	18	1	3041	1
9	5500	96	1	554	1
10	5500	25	1	2134	1
11	5500	29	1	1884	1
12	5500	18	1	2957	1
13	5500	35	1	1524	1
14	5500	26	1	2049	1
15	5500	44	1	1209	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	23	2.9	209	0
2	5500	23	4.6	151	0
3	5500	23	1.4	164	0
4	5500	29	4.7	181	1
5	5500	27	1.4	185	1
6	5500	29	4.4	211	1
7	5500	23	2.3	189	0
8	5500	28	4.5	152	1
9	5500	27	4.9	157	1
10	5500	28	2.3	180	1
11	5500	25	2.3	185	1
12	5500	23	2.2	186	1
13	5500	29	1.6	162	1
14	5500	23	4.9	207	1
15	5500	29	2	200	1
16	5500	29	1	203	1
17	5500	25	3.6	156	1
18	5500	25	3.8	175	1
19	5500	29	3	224	0
20	5500	29	4.6	209	1
21	5500	23	2.5	180	1
22	5500	27	2	209	1
23	5500	27	1.1	206	1
24	5500	26	1	169	1
25	5500	25	4.6	179	1
26	5500	23	1.4	191	1
27	5500	27	4.1	205	1
28	5500	29	4.2	199	1
29	5500	25	2.2	208	1
30	5500	23	1.8	229	1
Detection Percentage: 83.3 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	16	7.1	361	1
2	5500	17	6	320	1
3	5500	16	7.6	454	0
4	5500	17	10	468	1
5	5500	18	6.3	229	1
6	5500	16	8.1	457	1
7	5500	18	8.6	427	1
8	5500	18	8.3	318	1
9	5500	17	9.7	480	1
10	5500	16	7.2	463	1
11	5500	17	8.6	423	1
12	5500	17	9.7	475	1
13	5500	18	7.1	294	1
14	5500	16	9.3	316	1
15	5500	18	7.8	427	1
16	5500	18	7.3	336	0
17	5500	18	9.4	340	0
18	5500	16	8.2	379	0
19	5500	17	6.9	338	1
20	5500	16	7.8	372	1
21	5500	18	8	201	1
22	5500	17	8.3	382	1
23	5500	18	6.7	258	0
24	5500	17	7.7	421	1
25	5500	18	9.5	202	1
26	5500	16	7.7	257	1
27	5500	16	10	292	1
28	5500	18	8.1	247	1
29	5500	18	8.5	457	1
30	5500	18	9.2	281	1
Detection Percentage: 83.3 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	13	11.1	233	1
2	5500	15	12.2	225	1
3	5500	15	16.2	217	1
4	5500	15	16.5	463	1
5	5500	15	12	395	1
6	5500	13	12.1	277	1
7	5500	12	14.2	274	1
8	5500	15	17.3	417	1
9	5500	15	12.9	249	1
10	5500	14	16.6	258	1
11	5500	14	17.9	445	0
12	5500	12	12.8	283	1
13	5500	13	17.8	471	0
14	5500	14	11.8	500	0
15	5500	13	13.1	376	0
16	5500	15	15.8	423	1
17	5500	16	18.6	220	1
18	5500	14	12.7	316	1
19	5500	15	13.4	371	1
20	5500	15	11.2	254	1
21	5500	15	12.7	418	1
22	5500	13	15.6	415	1
23	5500	13	15.7	378	1
24	5500	15	15.8	227	1
25	5500	15	11	395	1
26	5500	12	16.7	322	1
27	5500	14	12	489	1
28	5500	13	19	292	1
29	5500	14	13.1	492	1
30	5500	14	17.7	227	1
Detection Percentage: 86.7 % (>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	10	70.6	1628	/	0.009549	1
1	1	10	51.2	/	/	0.954729	
2	2	10	56.7	1587	/	2.388245	
3	2	10	76	1064	/	2.930152	
4	2	10	75.2	1971	/	4.456092	
5	1	10	70.7	/	/	5.525256	
6	3	10	67.1	1526	1809	5.823856	
7	3	10	86	1985	1367	6.752426	
8	2	10	93.4	1903	/	7.903391	
9	2	10	74	1958	/	8.842749	
10	1	10	70.9	/	/	9.80445	
11	1	10	56.5	/	/	10.65541	
12	2	10	71.7	1893	/	11.71476	

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	1	11	52	/	/	0.315234	1
1	2	11	86.1	1688	/	1.957144	
2	3	11	56.4	1668	1948	2.372162	
3	3	11	57	1475	1436	3.332188	
4	2	11	75.8	1257	/	4.68367	
5	2	11	94	1294	/	5.905742	
6	3	11	81.9	1028	1489	6.582324	
7	2	11	55	1774	/	7.288794	
8	3	11	55.4	1896	1711	8.34001	
9	2	11	84	1149	/	9.446725	
10	2	11	91.7	1062	/	10.7758	
11	2	11	65.6	1859	/	11.85378	

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	3	10	50	1343	1988	0.457421	1
1	3	10	56	1640	1538	0.993329	
2	1	10	52	/	/	1.425653	
3	3	10	64.1	1682	1247	2.527527	
4	2	10	88.3	1922	/	3.142764	
5	1	10	98	/	/	3.425727	
6	1	10	57	/	/	4.023602	
7	2	10	67.2	1583	/	5.319565	
8	2	10	60.4	1526	/	5.454713	
9	1	10	70.9	/	/	6.63044	
10	2	10	97.9	1138	/	7.104299	
11	2	10	95	1064	/	7.478784	
12	2	10	59.5	1506	/	8.306913	
13	1	10	83.3	/	/	8.985513	
14	3	10	60.5	1097	1374	9.961225	
15	3	10	95.8	1922	1653	10.38583	
16	3	10	74.1	1407	1170	11.24093	
17	1	10	60.5	/	/	11.43919	

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	3	12	57.1	1298	1664	0.014022	1
1	1	12	85.5	/	/	0.82353	
2	1	12	98.6	/	/	1.879022	
3	2	12	50.8	1558	/	2.682358	
4	2	12	64.9	1940	/	3.203136	
5	2	12	58.5	1159	/	4.365341	
6	3	12	96.7	1785	1476	5.244069	
7	2	12	75	1240	/	5.938369	
8	2	12	70.9	1277	/	6.958983	
9	2	12	70.6	1173	/	7.396428	
10	2	12	83.4	1894	/	8.283378	
11	2	12	90.8	1914	/	9.360499	
12	1	12	74.3	/	/	9.939845	
13	2	12	99.1	1285	/	10.92339	
14	2	12	55.5	1244	/	11.32584	

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	6	75.4	/	/	0.587453	
1	3	6	53.4	1154	1223	0.978424	
2	1	6	82.6	/	/	1.730093	
3	2	6	84.9	1788	/	2.505254	
4	2	6	80.3	1859	/	2.63261	
5	1	6	69.3	/	/	3.427839	
6	1	6	74.8	/	/	3.965861	
7	3	6	88.6	1381	1343	4.719546	
8	2	6	90.2	1341	/	5.52254	
9	1	6	89.7	/	/	6.072762	1
10	3	6	93.1	1413	1640	6.452789	
11	2	6	86.3	1357	/	7.226574	
12	2	6	64.1	1852	/	7.979947	
13	2	6	89.1	1419	/	8.830107	
14	1	6	58.4	/	/	9.246751	
15	2	6	50.2	1237	/	9.797016	
16	1	6	65.1	/	/	10.18929	
17	1	6	58.4	/	/	11.18551	
18	2	6	88.5	1425	/	11.77731	

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	7	91.2	/	/	0.737573	
1	3	7	54	1095	1222	1.044466	
2	2	7	74.6	1184	/	1.977111	
3	1	7	51.3	/	/	3.084455	
4	3	7	75.6	1226	1500	3.718256	
5	2	7	81.8	1683	/	4.927349	
6	3	7	82.4	1383	1152	6.259523	1
7	3	7	79.9	1850	1902	6.725729	
8	1	7	86	/	/	7.796585	
9	2	7	90.9	1747	/	8.708821	
10	2	7	92.2	1921	/	9.651548	
11	1	7	91.2	/	/	10.40101	
12	2	7	68.6	1755	/	11.68218	

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	1	8	76.7	/	/	0.49508	1
1	2	8	94.5	1507	/	1.157584	
2	2	8	95.8	1045	/	1.586083	
3	3	8	64.4	1319	1588	2.652964	
4	1	8	66.5	/	/	3.265516	
5	2	8	68.1	1960	/	3.465894	
6	3	8	65.2	1334	1673	4.546513	
7	2	8	76.5	1688	/	4.746512	
8	2	8	77.6	1865	/	5.741756	
9	2	8	94	1703	/	6.173751	
10	1	8	70	/	/	7.074033	
11	3	8	97.4	1575	1968	7.962811	
12	2	8	89.6	1195	/	8.368337	
13	2	8	54.9	1787	/	9.007071	
14	2	8	92.7	1180	/	9.945835	
15	1	8	62.1	/	/	10.37842	
16	2	8	81.5	1714	/	11.21871	
17	2	8	57.4	1069	/	11.40128	

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	11	70.1	1115	/	0.579255	1
1	2	11	57.2	1819	/	1.249649	
2	1	11	82.7	/	/	2.436332	
3	2	11	84.3	1629	/	3.326333	
4	3	11	69	1757	1241	4.239844	
5	1	11	81.5	/	/	4.975594	
6	2	11	97.1	1665	/	5.226527	
7	1	11	65.7	/	/	6.085412	
8	3	11	84.4	1587	1965	7.223001	
9	1	11	89.6	/	/	8.30758	
10	1	11	67.9	/	/	9.073993	
11	2	11	57	1791	/	10.24327	
12	3	11	56.1	1496	1225	10.78941	
13	1	11	75.6	/	/	11.31134	

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	2	10	98.3	1161	/	0.545199	1
1	2	10	63.9	1337	/	0.808616	
2	2	10	66.1	1329	/	1.693594	
3	1	10	60	/	/	2.241822	
4	3	10	86.1	1801	1045	3.125053	
5	3	10	84.1	1082	1600	3.760601	
6	2	10	76.7	1973	/	4.486072	
7	2	10	92.5	1553	/	5.158029	
8	2	10	78.4	1102	/	5.85042	
9	1	10	65.4	/	/	6.425018	
10	2	10	74.1	1111	/	6.768621	
11	3	10	56.8	1122	1718	7.411871	
12	3	10	88.4	1006	1603	8.238281	
13	2	10	54.7	1923	/	8.837704	
14	3	10	82.1	1120	1441	9.785001	
15	3	10	88.4	1808	1973	10.08055	
16	2	10	98.2	1674	/	10.71786	
17	2	10	65	1571	/	11.59593	

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	3	11	63	1896	1077	0.434631	1
1	2	11	71.2	1769	/	1.117932	
2	2	11	98.4	1031	/	2.463912	
3	3	11	72.5	1010	1037	3.46137	
4	2	11	50.4	1514	/	3.8988	
5	2	11	64.5	1260	/	4.937131	
6	1	11	98.9	/	/	5.889726	
7	1	11	58.1	/	/	7.331676	
8	3	11	73.5	1660	1918	7.537821	
9	1	11	56	/	/	8.847469	
10	2	11	99.7	1346	/	9.864394	
11	2	11	98.7	1309	/	10.56152	
12	3	11	59	1229	1513	11.30466	

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	16	66.5	1186	/	0.101646	1
1	1	16	75.7	/	/	1.329856	
2	3	16	89.8	1086	1379	2.238941	
3	3	16	90.8	1865	1638	2.893983	
4	2	16	54.5	1588	/	4.103349	
5	1	16	66.1	/	/	4.906963	
6	1	16	99.7	/	/	5.538528	
7	2	16	77.4	1503	/	6.730087	
8	2	16	63.8	1251	/	7.200424	
9	3	16	78.1	1472	1203	8.353076	
10	3	16	94.6	1626	1364	8.85182	
11	2	16	73.1	1742	/	9.875351	
12	2	16	77.8	1406	/	10.53276	
13	2	16	80	1545	/	11.31731	

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	1	6	92.7	/	/	0.497616	1
1	2	6	91.6	1346	/	0.693088	
2	2	6	65	1715	/	1.933426	
3	3	6	88.5	1882	1322	2.062198	
4	2	6	55.3	1482	/	2.828658	
5	3	6	70.9	1750	1807	3.7729	
6	2	6	56.2	1395	/	4.621643	
7	2	6	80.3	1205	/	4.717406	
8	1	6	69.7	/	/	5.549885	
9	2	6	50.5	1302	/	6.166341	
10	3	6	98.2	1007	1770	7.234909	
11	3	6	64.2	1075	1377	7.37324	
12	1	6	98.3	/	/	8.186084	
13	2	6	79.1	1471	/	9.000972	
14	3	6	51.2	1794	1927	9.629171	
15	1	6	95.4	/	/	10.28452	
16	2	6	82.7	1238	/	10.74293	
17	1	6	74.8	/	/	11.80367	

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	2	14	83.7	1144	/	0.244338	1
1	3	14	87.5	1064	1799	0.768265	
2	2	14	53.2	1957	/	1.734359	
3	2	14	88.4	1686	/	1.96412	
4	2	14	75.8	1078	/	3.047463	
5	1	14	82.8	/	/	3.237459	
6	2	14	85.6	1157	/	4.381425	
7	2	14	85.6	1639	/	4.83134	
8	1	14	78.1	/	/	5.06594	
9	2	14	72.3	1113	/	6.28396	
10	2	14	81.8	1946	/	6.870841	
11	2	14	58.1	1012	/	7.034479	
12	1	14	57.5	/	/	8.051114	
13	1	14	96	/	/	8.455525	
14	2	14	60.8	1567	/	9.375652	
15	1	14	71.9	/	/	9.88349	
16	3	14	51.2	1292	1745	10.41609	
17	2	14	97	1923	/	11.19831	
18	3	14	96.3	1273	1979	11.67666	

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	3	14	56.2	1954	1358	0.335211	
1	3	14	98.2	1467	1783	0.820538	
2	3	14	87.2	1731	1524	1.490193	
3	1	14	99.4	/	/	2.253969	
4	3	14	77.4	1033	1123	2.85409	
5	2	14	88.4	1389	/	3.658106	
6	1	14	73.4	/	/	4.083432	
7	1	14	68.5	/	/	4.748903	
8	1	14	57.7	/	/	5.464049	
9	3	14	51.3	1467	1942	6.175331	1
10	2	14	97	1868	/	6.566892	
11	2	14	87	1049	/	7.259702	
12	2	14	54.4	1987	/	7.640664	
13	3	14	60.3	1458	1118	8.291915	
14	3	14	70.1	1718	1741	9.114107	
15	2	14	90.8	1561	/	9.817389	
16	3	14	92.7	1993	1858	10.38476	
17	1	14	81.1	/	/	10.96578	
18	2	14	69.8	1773	/	11.8128	

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	2	18	72.4	1958	/	0.271179	1
1	3	18	91.5	1773	1141	1.370024	
2	2	18	53.7	1095	/	2.228041	
3	2	18	99.3	1883	/	2.291203	
4	1	18	72.8	/	/	3.516548	
5	1	18	54.8	/	/	3.778932	
6	3	18	91.9	1511	1215	4.514987	
7	2	18	54.3	1059	/	5.590716	
8	1	18	90	/	/	6.295799	
9	3	18	91.4	1077	1614	6.978665	
10	2	18	83.8	1314	/	8.054086	
11	1	18	59.5	/	/	8.281816	
12	1	18	99	/	/	9.684361	
13	1	18	74.4	/	/	9.826096	
14	3	18	78	1547	1303	10.65106	
15	2	18	55	1118	/	11.57096	

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	2	15	77.7	1376	/	0.707348	1
1	2	15	71.8	1378	/	1.12075	
2	3	15	74.3	1867	1876	1.753772	
3	1	15	76.1	/	/	2.483512	
4	2	15	80.4	1158	/	3.738404	
5	2	15	98.1	1425	/	3.946017	
6	1	15	75.3	/	/	4.76813	
7	2	15	87.8	1517	/	5.605445	
8	3	15	54.2	1809	1126	6.329221	
9	1	15	58	/	/	7.207201	
10	3	15	91.1	1734	1105	7.762383	
11	3	15	60.6	1444	1874	8.803277	
12	3	15	59.2	1742	1104	9.063279	
13	2	15	92.2	1707	/	10.11799	
14	3	15	92.2	1060	1414	10.99599	
15	2	15	68.2	1091	/	11.31505	
16	2	15	77.7	1376	/	0.707348	

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	2	15	60.7	1783	/	0.589741	1
1	2	15	76.1	1820	/	0.842663	
2	2	15	67.7	1816	/	1.51309	
3	2	15	80	1566	/	2.145938	
4	2	15	67.4	1699	/	3.252788	
5	1	15	79.9	/	/	3.972223	
6	1	15	60.7	/	/	4.081009	
7	2	15	84	1211	/	4.815455	
8	1	15	90	/	/	5.441572	
9	2	15	85.3	1012	/	6.547382	
10	2	15	92.1	1331	/	7.057151	
11	1	15	93.1	/	/	7.628721	
12	2	15	92.8	1880	/	8.259905	
13	3	15	69.8	1490	1372	9.080759	
14	3	15	69.3	1308	1872	9.892629	
15	2	15	86.1	1102	/	10.49691	
16	2	15	86	1020	/	11.03592	
17	3	15	84.7	1745	1634	11.66637	

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	1	11	54.3	/	/	1.024447	1
1	3	11	59.7	1191	1756	1.982812	
2	2	11	63.8	1802	/	2.380118	
3	1	11	87.5	/	/	4.220431	
4	1	11	92.8	/	/	5.059724	
5	1	11	64.4	/	/	6.151926	
6	2	11	58.6	1708	/	7.317711	
7	3	11	63.5	1131	1274	7.991991	
8	2	11	68.5	1395	/	9.196305	
9	1	11	68.3	/	/	10.06121	
10	3	11	85.1	1310	1988	11.61915	

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	2	15	97.7	1708	/	0.173339	1
1	1	15	70.4	/	/	1.035449	
2	2	15	53.2	1820	/	1.528837	
3	2	15	73	1956	/	2.254559	
4	2	15	88.6	1928	/	2.918831	
5	2	15	62.5	1053	/	3.818378	
6	2	15	79.1	1103	/	4.096628	
7	2	15	50.7	1364	/	5.32381	
8	2	15	52.9	1485	/	5.838184	
9	2	15	96.3	1882	/	6.578158	
10	2	15	74	1582	/	7.013491	
11	2	15	78.2	1124	/	7.854214	
12	2	15	90	1497	/	8.030072	
13	1	15	90.8	/	/	8.717447	
14	2	15	84.8	1401	/	9.456103	
15	2	15	67.2	1148	/	10.14455	
16	2	15	84.4	1026	/	10.9633	
17	3	15	74.3	1052	1819	11.74201	

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	15	92.5	1149	/	0.262081	1
1	2	15	54.2	1168	/	1.939676	
2	1	15	61.7	/	/	2.550339	
3	3	15	66.6	1823	1218	4.183194	
4	2	15	84.9	1123	/	4.37613	
5	3	15	96.3	1205	1974	6.426453	
6	3	15	54.7	1364	1533	7.612488	
7	1	15	74.3	/	/	8.449301	
8	1	15	64.4	/	/	9.696538	
9	2	15	95	1820	/	10.55421	
10	2	15	84.9	1993	/	11.13467	

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	18	80.5	1236	/	0.58486	
1	2	18	65.5	1547	/	1.260771	
2	2	18	78	1592	/	1.634255	
3	1	18	64.6	/	/	2.794784	
4	1	18	84	/	/	3.417381	
5	2	18	96.2	1978	/	3.918324	
6	3	18	92.1	1187	1518	4.612577	
7	3	18	79.8	1932	1869	4.957502	
8	3	18	66.6	1482	1640	6.120095	1
9	2	18	72.6	1769	/	6.592242	
10	2	18	52.1	1899	/	7.092076	
11	2	18	61.2	1370	/	8.410164	
12	2	18	92.4	1283	/	9.070295	
13	2	18	68.3	1335	/	9.713361	
14	2	18	59.1	1713	/	10.4294	
15	1	18	85	/	/	10.71479	
16	2	18	72.3	1943	/	11.93873	

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	2	11	73.9	1483	/	0.201752	1
1	1	11	81.6	/	/	0.69983	
2	2	11	74.7	1038	/	1.363973	
3	2	11	91.4	1526	/	2.2529	
4	1	11	52.7	/	/	2.9107	
5	2	11	81	1951	/	3.55457	
6	2	11	82.5	1594	/	4.246853	
7	2	11	54.5	1867	/	4.80111	
8	2	11	53.7	1139	/	5.843681	
9	2	11	79	1294	/	6.069266	
10	3	11	65.5	1812	1957	6.974359	
11	1	11	71.1	/	/	7.609922	
12	2	11	85.2	1302	/	8.556015	
13	1	11	76	/	/	8.934876	
14	3	11	57.9	1993	1696	9.522993	
15	3	11	50.5	1417	1164	10.61866	
16	2	11	66.2	1228	/	10.68209	
17	1	11	82	/	/	11.54128	

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	3	16	97.5	1562	1379	0.870958	1
1	2	16	94.9	1962		1.001304	
2	2	16	88.5	1903		2.034056	
3	2	16	61.9	1234		2.86801	
4	1	16	64.7			4.063991	
5	3	16	90.8	1177	1922	5.225653	
6	2	16	71.2	1228		6.291507	
7	1	16	61.9			7.174852	
8	2	16	57.4	1909		7.695419	
9	2	16	67.4	1468		8.671124	
10	1	16	74.7			9.352972	
11	2	16	86.5	1761		10.65337	
12	3	16	97.5	1066	1384	11.81903	

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	15	58.4	1341	/	0.25136	1
1	2	15	67.5	1937	/	1.155846	
2	3	15	58.4	1572	1507	2.253168	
3	1	15	52.1	/	/	3.030817	
4	2	15	56.7	1171	/	3.780879	
5	2	15	76.4	1253	/	5.027147	
6	3	15	72.3	1938	1036	5.83044	
7	1	15	74.3	/	/	6.131265	
8	2	15	78.5	1466	/	7.560855	
9	3	15	57.7	1085	1489	8.40034	
10	3	15	51.8	1423	1408	8.706515	
11	3	15	78.2	1007	1104	10.06371	
12	2	15	99.9	1032	/	10.65874	
13	2	15	60.5	1886	/	11.94863	

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	2	9	89.1	1455	/	0.351043	
1	2	9	77.7	1742	/	2.468218	
2	1	9	71.9	/	/	2.998134	
3	3	9	60.8	1612	1163	4.101836	
4	2	9	99.1	1861	/	6.097769	1
5	2	9	72.1	1842	/	7.220511	
6	2	9	83.2	1601	/	8.071267	
7	2	9	51.2	1155	/	9.360845	
8	3	9	50.3	1794	1401	10.75624	

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	7	59.3	1489	/	0.226348	
1	3	7	60.3	1129	1729	1.383194	
2	2	7	94.9	1706	/	1.577259	
3	1	7	65.2	/	/	2.582927	
4	2	7	69.6	1789	/	3.023366	
5	2	7	50.8	1718	/	4.480385	
6	3	7	57.6	1034	1682	4.554735	
7	3	7	52.7	1656	1709	5.608498	
8	3	7	99.1	1477	1617	6.438486	1
9	1	7	53.6	/	/	6.901465	
10	3	7	87.6	1484	1481	7.908526	
11	3	7	95.8	1254	1037	8.338717	
12	1	7	85.9	/	/	9.049062	
13	1	7	76.6	/	/	10.29344	
14	2	7	59.8	1163	/	10.89506	
15	3	7	80.5	1789	1017	11.56466	

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	20	67.4	1742	/	0.300132	
1	1	20	56.9	/	/	0.950934	
2	2	20	73.9	1417	/	2.127659	
3	2	20	91.1	1017	/	3.601394	
4	2	20	61.4	1444	/	4.288713	
5	2	20	90.6	1781	/	4.864662	
6	1	20	90.8	/	/	6.089057	1
7	2	20	80.8	1908	/	6.632287	
8	3	20	52.6	1172	1453	7.510207	
9	2	20	79	1029	/	8.983154	
10	3	20	60.2	1677	1337	10.06964	
11	1	20	78.8	/	/	10.30351	
12	2	20	90.6	1446	/	11.54801	

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	1	8	95.9	/	/	0.423111	
1	1	8	92.2	/	/	1.1735	
2	2	8	91.1	1577	/	1.950697	
3	2	8	51.7	1067	/	2.348886	
4	2	8	64	1363	/	3.138287	
5	2	8	96.6	1694	/	3.828972	
6	2	8	62.9	1873	/	4.736273	
7	1	8	57	/	/	5.935139	
8	3	8	73.3	1741	1888	6.503263	1
9	3	8	83.6	1128	1266	6.853791	
10	2	8	78.2	1974	/	7.840438	
11	1	8	68.8	/	/	8.363566	
12	2	8	84	1459	/	9.079095	
13	3	8	98.3	1923	1078	9.914596	
14	2	8	70.1	1532	/	10.53997	
15	2	8	77	1602	/	11.80823	

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	2	10	80.3	1772	/	0.763856	
1	2	10	78.5	1760	/	1.343453	
2	2	10	96.7	1334	/	2.177076	
3	2	10	53.9	1666	/	2.688302	
4	1	10	56.1	/	/	3.63249	
5	3	10	64.5	1543	1083	4.077711	
6	2	10	61.9	1565	/	5.547736	
7	3	10	81.2	1893	1613	6.314124	1
8	1	10	58	/	/	7.063845	
9	1	10	60.9	/	/	7.904506	
10	2	10	90.2	1017	/	8.729646	
11	1	10	97.5	/	/	9.189961	
12	2	10	74.9	1441	/	9.989996	
13	3	10	77.6	1257	1450	11.172	
14	1	10	99	/	/	11.76595	

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	10	63.4	1928	/	0.660185	
1	3	10	65.8	1357	1164	1.040799	
2	3	10	78.3	1034	1156	1.427048	
3	2	10	68.1	1909	/	2.450285	
4	3	10	91.3	1830	1827	2.957127	
5	3	10	98	1824	1353	3.792907	
6	1	10	95	/	/	4.142334	
7	2	10	69	1884	/	4.915244	
8	2	10	97	1720		5.646858	
9	3	10	89.5	1331	1173	6.18462	1
10	2	10	69.1	1375	/	7.117602	
11	1	10	82.7	/	/	7.668551	
12	2	10	53.1	1137	/	8.025123	
13	3	10	90.2	1051	1536	8.998055	
14	1	10	98.8	/	/	9.499797	
15	2	10	97.7	1054	/	10.22318	
16	2	10	94.4	1691	/	11.00803	
17	3	10	92	1617	1855	11.83432	

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	1	5283.0, 5658.0, 5674.0, 5407.0, 5637.0, 5350.0, 5536.0, 5269.0, 5649.0, 5354.0, 5709.0, 5720.0, 5602.0, 5329.0, 5449.0, 5607.0, 5621.0, 5682.0, 5435.0, 5450.0, 5379.0, 5535.0, 5614.0, 5289.0, 5564.0, 5427.0, 5390.0, 5331.0, 5569.0, 5284.0, 5422.0, 5545.0, 5568.0, 5254.0, 5402.0, 5266.0, 5336.0, 5352.0, 5589.0, 5496.0, 5453.0, 5323.0, 5380.0, 5426.0, 5498.0, 5353.0, 5723.0, 5415.0, 5272.0, 5451.0, 5299.0, 5320.0, 5348.0, 5504.0, 5382.0, 5619.0, 5461.0, 5285.0, 5303.0, 5622.0, 5573.0, 5456.0, 5691.0, 5500.0, 5509.0, 5554.0, 5601.0, 5563.0, 5677.0, 5330.0, 5542.0, 5396.0, 5411.0, 5587.0, 5365.0, 5324.0, 5400.0, 5507.0, 5643.0, 5560.0, 5347.0, 5310.0, 5492.0, 5579.0, 5529.0, 5547.0, 5315.0, 5516.0, 5613.0, 5391.0, 5481.0, 5486.0, 5663.0, 5332.0, 5292.0, 5328.0, 5495.0, 5306.0, 5338.0, 5594.0
2	5500	9	1	333	1	5458.0, 5721.0, 5696.0, 5407.0, 5357.0, 5590.0, 5519.0, 5440.0, 5462.0, 5341.0, 5656.0, 5523.0, 5397.0, 5435.0, 5574.0, 5301.0, 5319.0, 5710.0, 5683.0, 5629.0, 5482.0, 5593.0, 5361.0, 5295.0, 5552.0, 5719.0, 5542.0, 5722.0, 5700.0, 5429.0, 5457.0, 5717.0, 5316.0, 5420.0, 5315.0, 5404.0, 5630.0, 5347.0, 5291.0, 5549.0, 5463.0, 5464.0, 5639.0, 5312.0, 5376.0, 5520.0, 5577.0, 5338.0, 5305.0, 5466.0, 5276.0, 5475.0, 5685.0, 5277.0, 5365.0, 5402.0, 5268.0, 5591.0, 5557.0, 5290.0, 5262.0, 5581.0, 5311.0, 5356.0, 5412.0, 5515.0, 5686.0, 5587.0, 5283.0, 5646.0, 5441.0, 5342.0, 5411.0, 5460.0, 5559.0, 5354.0, 5438.0, 5430.0, 5271.0, 5698.0, 5498.0, 5292.0, 5400.0, 5459.0, 5669.0, 5575.0, 5662.0, 5708.0, 5389.0, 5665.0, 5381.0, 5445.0, 5532.0, 5687.0, 5485.0, 5607.0, 5279.0, 5260.0, 5364.0, 5294.0
3	5500	9	1	333	1	5380.0, 5605.0, 5551.0, 5545.0, 5675.0, 5648.0, 5665.0, 5398.0, 5618.0, 5506.0, 5634.0, 5696.0, 5543.0, 5489.0, 5321.0, 5592.0, 5719.0, 5391.0, 5254.0, 5628.0, 5612.0, 5389.0, 5255.0, 5652.0, 5400.0, 5668.0, 5474.0, 5323.0, 5684.0, 5716.0, 5582.0, 5640.0, 5305.0, 5396.0, 5649.0, 5703.0, 5467.0, 5385.0, 5685.0, 5401.0, 5294.0, 5350.0, 5528.0, 5277.0, 5565.0, 5697.0, 5387.0, 5275.0, 5569.0, 5635.0, 5718.0, 5707.0, 5620.0, 5526.0, 5613.0, 5360.0, 5590.0, 5417.0, 5300.0, 5595.0, 5358.0, 5362.0, 5445.0, 5611.0, 5449.0, 5468.0, 5619.0, 5544.0, 5272.0, 5470.0,

						5293.0, 5274.0, 5491.0, 5461.0, 5630.0, 5714.0, 5382.0, 5414.0, 5533.0, 5432.0, 5427.0, 5621.0, 5485.0, 5490.0, 5443.0, 5690.0, 5452.0, 5322.0, 5722.0, 5262.0, 5268.0, 5487.0, 5670.0, 5340.0, 5520.0, 5288.0, 5480.0, 5359.0, 5593.0, 5286.0
4	5500	9	1	333	1	5422.0, 5344.0, 5478.0, 5555.0, 5469.0, 5481.0, 5331.0, 5609.0, 5569.0, 5623.0, 5535.0, 5526.0, 5572.0, 5687.0, 5682.0, 5356.0, 5534.0, 5264.0, 5571.0, 5654.0, 5432.0, 5262.0, 5385.0, 5413.0, 5335.0, 5451.0, 5267.0, 5272.0, 5455.0, 5367.0, 5656.0, 5627.0, 5642.0, 5323.0, 5334.0, 5541.0, 5660.0, 5644.0, 5528.0, 5669.0, 5649.0, 5398.0, 5263.0, 5499.0, 5510.0, 5253.0, 5721.0, 5285.0, 5715.0, 5634.0, 5701.0, 5716.0, 5501.0, 5374.0, 5447.0, 5394.0, 5401.0, 5506.0, 5295.0, 5445.0, 5304.0, 5415.0, 5309.0, 5275.0, 5297.0, 5617.0, 5686.0, 5339.0, 5460.0, 5652.0, 5624.0, 5680.0, 5345.0, 5577.0, 5530.0, 5488.0, 5537.0, 5364.0, 5307.0, 5464.0, 5702.0, 5548.0, 5714.0, 5618.0, 5638.0, 5525.0, 5549.0, 5670.0, 5441.0, 5375.0, 5679.0, 5382.0, 5425.0, 5539.0, 5529.0, 5259.0, 5471.0, 5622.0, 5596.0, 5459.0
5	5500	9	1	333	1	5590.0, 5318.0, 5273.0, 5400.0, 5267.0, 5474.0, 5532.0, 5341.0, 5723.0, 5467.0, 5389.0, 5263.0, 5648.0, 5364.0, 5672.0, 5530.0, 5660.0, 5508.0, 5681.0, 5301.0, 5447.0, 5684.0, 5496.0, 5652.0, 5580.0, 5371.0, 5308.0, 5408.0, 5253.0, 5399.0, 5455.0, 5556.0, 5659.0, 5626.0, 5654.0, 5320.0, 5568.0, 5289.0, 5351.0, 5283.0, 5278.0, 5534.0, 5631.0, 5275.0, 5387.0, 5334.0, 5646.0, 5366.0, 5662.0, 5353.0, 5434.0, 5314.0, 5630.0, 5572.0, 5421.0, 5319.0, 5587.0, 5463.0, 5615.0, 5469.0, 5644.0, 5625.0, 5280.0, 5591.0, 5643.0, 5639.0, 5268.0, 5285.0, 5394.0, 5277.0, 5435.0, 5333.0, 5588.0, 5597.0, 5484.0, 5701.0, 5479.0, 5292.0, 5251.0, 5404.0, 5436.0, 5480.0, 5551.0, 5415.0, 5528.0, 5458.0, 5594.0, 5687.0, 5618.0, 5417.0, 5595.0, 5519.0, 5456.0, 5702.0, 5634.0, 5390.0, 5450.0, 5577.0, 5571.0, 5584.0
6	5500	9	1	333	1	5578.0, 5508.0, 5481.0, 5559.0, 5629.0, 5411.0, 5485.0, 5379.0, 5683.0, 5377.0, 5519.0, 5273.0, 5645.0, 5463.0, 5636.0, 5422.0, 5584.0, 5438.0, 5420.0, 5439.0, 5553.0, 5711.0, 5452.0, 5488.0, 5567.0, 5259.0, 5260.0, 5723.0, 5537.0, 5316.0, 5637.0, 5649.0, 5494.0, 5595.0, 5402.0, 5589.0, 5276.0, 5599.0, 5373.0, 5590.0, 5510.0, 5330.0, 5406.0, 5469.0, 5337.0, 5660.0, 5430.0, 5644.0, 5295.0, 5297.0, 5525.0, 5556.0, 5554.0, 5710.0, 5363.0, 5272.0, 5371.0, 5393.0, 5524.0, 5671.0, 5661.0, 5484.0, 5663.0, 5613.0, 5383.0, 5403.0, 5306.0, 5614.0, 5674.0, 5328.0,

						5479.0, 5318.0, 5340.0, 5561.0, 5492.0, 5489.0, 5622.0, 5681.0, 5638.0, 5425.0, 5448.0, 5544.0, 5423.0, 5264.0, 5628.0, 5507.0, 5288.0, 5693.0, 5563.0, 5603.0, 5713.0, 5706.0, 5341.0, 5397.0, 5257.0, 5401.0, 5470.0, 5541.0, 5293.0, 5343.0
7	5500	9	1	333	1	5301.0, 5570.0, 5559.0, 5711.0, 5302.0, 5317.0, 5583.0, 5654.0, 5560.0, 5345.0, 5527.0, 5451.0, 5672.0, 5434.0, 5682.0, 5294.0, 5556.0, 5261.0, 5607.0, 5324.0, 5659.0, 5424.0, 5307.0, 5690.0, 5668.0, 5395.0, 5463.0, 5416.0, 5387.0, 5523.0, 5648.0, 5469.0, 5360.0, 5675.0, 5685.0, 5535.0, 5557.0, 5684.0, 5427.0, 5341.0, 5458.0, 5564.0, 5691.0, 5273.0, 5656.0, 5577.0, 5593.0, 5572.0, 5419.0, 5697.0, 5619.0, 5408.0, 5669.0, 5647.0, 5722.0, 5678.0, 5354.0, 5252.0, 5614.0, 5453.0, 5484.0, 5573.0, 5609.0, 5413.0, 5652.0, 5519.0, 5383.0, 5629.0, 5540.0, 5715.0, 5450.0, 5462.0, 5635.0, 5499.0, 5314.0, 5588.0, 5374.0, 5621.0, 5717.0, 5479.0, 5488.0, 5268.0, 5459.0, 5534.0, 5547.0, 5503.0, 5543.0, 5703.0, 5380.0, 5536.0, 5421.0, 5439.0, 5686.0, 5548.0, 5251.0, 5277.0, 5606.0, 5431.0, 5320.0, 5289.0
8	5500	9	1	333	1	5309.0, 5710.0, 5628.0, 5512.0, 5349.0, 5275.0, 5407.0, 5631.0, 5340.0, 5319.0, 5569.0, 5675.0, 5274.0, 5566.0, 5570.0, 5326.0, 5697.0, 5465.0, 5693.0, 5375.0, 5578.0, 5536.0, 5567.0, 5533.0, 5605.0, 5297.0, 5372.0, 5485.0, 5553.0, 5719.0, 5389.0, 5444.0, 5272.0, 5615.0, 5621.0, 5662.0, 5483.0, 5552.0, 5335.0, 5650.0, 5395.0, 5539.0, 5530.0, 5557.0, 5706.0, 5434.0, 5696.0, 5381.0, 5288.0, 5713.0, 5644.0, 5299.0, 5481.0, 5660.0, 5313.0, 5722.0, 5443.0, 5676.0, 5645.0, 5661.0, 5544.0, 5529.0, 5520.0, 5581.0, 5698.0, 5493.0, 5652.0, 5294.0, 5506.0, 5502.0, 5642.0, 5321.0, 5715.0, 5596.0, 5379.0, 5522.0, 5630.0, 5251.0, 5575.0, 5266.0, 5300.0, 5392.0, 5495.0, 5699.0, 5509.0, 5306.0, 5409.0, 5543.0, 5324.0, 5551.0, 5320.0, 5263.0, 5568.0, 5517.0, 5689.0, 5691.0, 5637.0, 5518.0, 5598.0, 5702.0
9	5500	9	1	333	1	5589.0, 5333.0, 5366.0, 5655.0, 5335.0, 5351.0, 5295.0, 5579.0, 5498.0, 5301.0, 5263.0, 5573.0, 5501.0, 5716.0, 5474.0, 5280.0, 5494.0, 5510.0, 5719.0, 5304.0, 5441.0, 5545.0, 5426.0, 5601.0, 5491.0, 5566.0, 5466.0, 5622.0, 5700.0, 5723.0, 5427.0, 5715.0, 5570.0, 5646.0, 5611.0, 5410.0, 5683.0, 5310.0, 5412.0, 5296.0, 5363.0, 5588.0, 5437.0, 5291.0, 5673.0, 5416.0, 5625.0, 5344.0, 5372.0, 5704.0, 5271.0, 5475.0, 5404.0, 5270.0, 5627.0, 5531.0, 5644.0, 5307.0, 5564.0, 5547.0, 5331.0, 5506.0, 5300.0, 5373.0, 5371.0, 5265.0, 5342.0, 5487.0, 5696.0, 5355.0,

						5711.0, 5534.0, 5286.0, 5529.0, 5634.0, 5336.0, 5314.0, 5429.0, 5490.0, 5591.0, 5464.0, 5375.0, 5616.0, 5593.0, 5542.0, 5357.0, 5497.0, 5667.0, 5253.0, 5402.0, 5319.0, 5623.0, 5454.0, 5563.0, 5477.0, 5298.0, 5447.0, 5306.0, 5476.0, 5659.0
10	5500	9	1	333	1	5274.0, 5266.0, 5448.0, 5407.0, 5314.0, 5372.0, 5536.0, 5392.0, 5708.0, 5623.0, 5576.0, 5340.0, 5291.0, 5700.0, 5332.0, 5385.0, 5547.0, 5399.0, 5474.0, 5621.0, 5396.0, 5475.0, 5509.0, 5579.0, 5471.0, 5555.0, 5441.0, 5293.0, 5674.0, 5346.0, 5614.0, 5611.0, 5565.0, 5516.0, 5366.0, 5319.0, 5337.0, 5393.0, 5267.0, 5331.0, 5593.0, 5599.0, 5467.0, 5379.0, 5569.0, 5711.0, 5638.0, 5566.0, 5484.0, 5672.0, 5335.0, 5437.0, 5285.0, 5544.0, 5640.0, 5610.0, 5398.0, 5705.0, 5328.0, 5505.0, 5592.0, 5631.0, 5256.0, 5546.0, 5628.0, 5686.0, 5368.0, 5714.0, 5680.0, 5477.0, 5665.0, 5634.0, 5513.0, 5371.0, 5697.0, 5472.0, 5635.0, 5406.0, 5538.0, 5470.0, 5645.0, 5591.0, 5418.0, 5570.0, 5649.0, 5465.0, 5606.0, 5316.0, 5339.0, 5387.0, 5436.0, 5421.0, 5703.0, 5537.0, 5532.0, 5402.0, 5563.0, 5320.0, 5512.0, 5688.0
11	5500	9	1	333	1	5486.0, 5389.0, 5616.0, 5443.0, 5256.0, 5513.0, 5398.0, 5442.0, 5627.0, 5642.0, 5378.0, 5507.0, 5652.0, 5537.0, 5611.0, 5478.0, 5578.0, 5396.0, 5674.0, 5716.0, 5433.0, 5445.0, 5575.0, 5391.0, 5370.0, 5281.0, 5343.0, 5581.0, 5362.0, 5432.0, 5518.0, 5402.0, 5282.0, 5467.0, 5505.0, 5267.0, 5326.0, 5525.0, 5288.0, 5306.0, 5262.0, 5636.0, 5697.0, 5597.0, 5590.0, 5421.0, 5696.0, 5451.0, 5617.0, 5269.0, 5556.0, 5372.0, 5554.0, 5704.0, 5658.0, 5561.0, 5408.0, 5314.0, 5539.0, 5490.0, 5424.0, 5363.0, 5672.0, 5713.0, 5260.0, 5355.0, 5342.0, 5653.0, 5295.0, 5325.0, 5472.0, 5504.0, 5301.0, 5417.0, 5503.0, 5573.0, 5348.0, 5706.0, 5534.0, 5520.0, 5683.0, 5284.0, 5311.0, 5719.0, 5419.0, 5302.0, 5516.0, 5447.0, 5416.0, 5718.0, 5506.0, 5305.0, 5565.0, 5477.0, 5481.0, 5605.0, 5568.0, 5344.0, 5435.0, 5659.0
12	5500	9	1	333	1	5676.0, 5687.0, 5650.0, 5272.0, 5520.0, 5277.0, 5345.0, 5289.0, 5334.0, 5540.0, 5487.0, 5514.0, 5709.0, 5468.0, 5623.0, 5571.0, 5594.0, 5410.0, 5265.0, 5251.0, 5362.0, 5661.0, 5293.0, 5694.0, 5273.0, 5619.0, 5526.0, 5624.0, 5669.0, 5635.0, 5538.0, 5352.0, 5297.0, 5255.0, 5573.0, 5595.0, 5665.0, 5418.0, 5534.0, 5494.0, 5660.0, 5712.0, 5432.0, 5314.0, 5393.0, 5582.0, 5576.0, 5450.0, 5713.0, 5461.0, 5638.0, 5274.0, 5588.0, 5351.0, 5436.0, 5605.0, 5581.0, 5568.0, 5369.0, 5441.0, 5559.0, 5547.0, 5306.0, 5402.0, 5486.0, 5478.0, 5472.0, 5267.0, 5679.0, 5718.0,

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13	5500	9	1	333	1	5527.0, 5252.0, 5532.0, 5381.0, 5499.0, 5335.0, 5363.0, 5625.0, 5448.0, 5315.0, 5606.0, 5399.0, 5272.0, 5257.0, 5395.0, 5664.0, 5316.0, 5637.0, 5383.0, 5562.0, 5557.0, 5447.0, 5596.0, 5416.0, 5579.0, 5549.0, 5618.0, 5483.0, 5267.0, 5533.0, 5481.0, 5450.0, 5691.0, 5408.0, 5502.0, 5576.0, 5492.0, 5715.0, 5538.0, 5588.0, 5659.0, 5646.0, 5680.0, 5405.0, 5393.0, 5694.0, 5390.0, 5621.0, 5676.0, 5355.0, 5281.0, 5542.0, 5307.0, 5590.0, 5269.0, 5592.0, 5280.0, 5451.0, 5589.0, 5294.0, 5372.0, 5443.0, 5650.0, 5554.0, 5724.0, 5563.0, 5627.0, 5309.0, 5260.0, 5420.0, 5581.0, 5275.0, 5291.0, 5454.0, 5713.0, 5414.0, 5487.0, 5321.0, 5350.0, 5326.0, 5712.0, 5505.0, 5433.0, 5613.0, 5556.0, 5705.0, 5604.0, 5351.0, 5683.0, 5440.0, 5407.0, 5513.0, 5614.0, 5519.0, 5709.0, 5449.0, 5304.0, 5702.0, 5701.0, 5353.0
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20	5500	9	1	333	1	5614.0, 5512.0, 5517.0, 5710.0, 5275.0, 5481.0, 5407.0, 5582.0, 5596.0, 5642.0, 5513.0, 5552.0, 5645.0, 5404.0, 5435.0, 5412.0, 5332.0, 5584.0, 5704.0, 5525.0, 5577.0, 5635.0, 5413.0, 5337.0, 5467.0, 5505.0, 5478.0, 5327.0, 5594.0, 5289.0, 5620.0, 5438.0, 5509.0, 5723.0, 5429.0, 5460.0, 5492.0, 5394.0, 5648.0, 5495.0, 5355.0, 5287.0, 5593.0, 5533.0, 5709.0, 5514.0, 5661.0, 5636.0, 5482.0, 5335.0, 5682.0, 5464.0, 5294.0, 5286.0, 5278.0, 5662.0, 5706.0, 5347.0, 5483.0, 5370.0, 5622.0, 5686.0, 5277.0, 5390.0, 5681.0, 5333.0, 5285.0, 5432.0, 5377.0, 5623.0, 5600.0, 5324.0, 5539.0, 5589.0, 5713.0, 5270.0, 5510.0, 5334.0, 5375.0, 5649.0, 5690.0, 5408.0, 5616.0, 5331.0, 5358.0, 5607.0, 5392.0, 5368.0, 5373.0, 5353.0, 5663.0, 5322.0, 5542.0, 5388.0, 5258.0, 5604.0, 5488.0, 5457.0, 5640.0, 5491.0
21	5500	9	1	333	1	5492.0, 5347.0, 5441.0, 5393.0, 5617.0, 5478.0, 5380.0, 5473.0, 5455.0, 5407.0, 5367.0, 5540.0, 5663.0, 5500.0, 5287.0, 5418.0, 5427.0, 5507.0, 5533.0, 5679.0, 5544.0, 5489.0, 5539.0, 5462.0, 5607.0, 5265.0, 5667.0, 5312.0, 5660.0, 5428.0, 5450.0, 5626.0, 5656.0, 5358.0, 5443.0, 5252.0, 5562.0, 5471.0, 5254.0, 5269.0, 5327.0, 5579.0, 5456.0, 5271.0, 5373.0, 5275.0, 5666.0, 5700.0, 5570.0, 5537.0, 5332.0, 5635.0, 5717.0, 5710.0, 5592.0, 5298.0, 5665.0, 5606.0, 5297.0, 5622.0, 5288.0, 5504.0, 5703.0, 5479.0, 5711.0, 5554.0, 5523.0, 5513.0, 5334.0, 5369.0,

						5496.0, 5497.0, 5608.0, 5363.0, 5258.0, 5709.0, 5475.0, 5353.0, 5253.0, 5712.0, 5434.0, 5644.0, 5403.0, 5273.0, 5405.0, 5621.0, 5571.0, 5671.0, 5543.0, 5567.0, 5454.0, 5274.0, 5560.0, 5330.0, 5305.0, 5526.0, 5517.0, 5488.0, 5323.0, 5391.0
22	5500	9	1	333	1	5290.0, 5634.0, 5442.0, 5349.0, 5282.0, 5419.0, 5557.0, 5695.0, 5653.0, 5478.0, 5675.0, 5455.0, 5504.0, 5674.0, 5659.0, 5469.0, 5584.0, 5643.0, 5652.0, 5594.0, 5624.0, 5456.0, 5601.0, 5697.0, 5321.0, 5536.0, 5718.0, 5444.0, 5329.0, 5577.0, 5534.0, 5260.0, 5420.0, 5665.0, 5405.0, 5452.0, 5404.0, 5684.0, 5330.0, 5496.0, 5651.0, 5489.0, 5550.0, 5490.0, 5314.0, 5331.0, 5382.0, 5252.0, 5268.0, 5258.0, 5383.0, 5364.0, 5521.0, 5428.0, 5481.0, 5627.0, 5563.0, 5567.0, 5303.0, 5277.0, 5462.0, 5592.0, 5315.0, 5310.0, 5389.0, 5513.0, 5637.0, 5346.0, 5688.0, 5307.0, 5511.0, 5645.0, 5312.0, 5503.0, 5432.0, 5678.0, 5544.0, 5715.0, 5616.0, 5380.0, 5324.0, 5265.0, 5566.0, 5687.0, 5576.0, 5408.0, 5626.0, 5334.0, 5397.0, 5628.0, 5537.0, 5338.0, 5636.0, 5505.0, 5308.0, 5365.0, 5281.0, 5297.0, 5446.0, 5371.0
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						5425.0, 5272.0, 5444.0, 5588.0, 5416.0, 5459.0, 5351.0, 5626.0, 5318.0, 5668.0, 5331.0, 5608.0, 5599.0, 5556.0, 5307.0, 5466.0, 5329.0, 5312.0, 5723.0, 5482.0, 5261.0, 5535.0, 5700.0, 5568.0, 5378.0, 5621.0, 5441.0, 5398.0, 5583.0, 5610.0
25	5500	9	1	333	1	5595.0, 5586.0, 5360.0, 5716.0, 5606.0, 5584.0, 5632.0, 5322.0, 5684.0, 5711.0, 5433.0, 5634.0, 5687.0, 5503.0, 5297.0, 5706.0, 5721.0, 5680.0, 5499.0, 5647.0, 5526.0, 5630.0, 5331.0, 5383.0, 5500.0, 5254.0, 5427.0, 5320.0, 5367.0, 5677.0, 5279.0, 5615.0, 5419.0, 5540.0, 5403.0, 5495.0, 5342.0, 5462.0, 5601.0, 5416.0, 5267.0, 5285.0, 5533.0, 5324.0, 5485.0, 5509.0, 5497.0, 5623.0, 5567.0, 5583.0, 5388.0, 5722.0, 5536.0, 5635.0, 5656.0, 5563.0, 5587.0, 5703.0, 5688.0, 5620.0, 5491.0, 5646.0, 5410.0, 5259.0, 5471.0, 5610.0, 5347.0, 5667.0, 5541.0, 5608.0, 5673.0, 5356.0, 5614.0, 5506.0, 5445.0, 5530.0, 5682.0, 5705.0, 5346.0, 5420.0, 5330.0, 5461.0, 5315.0, 5375.0, 5510.0, 5671.0, 5542.0, 5698.0, 5291.0, 5717.0, 5663.0, 5304.0, 5354.0, 5265.0, 5504.0, 5598.0, 5293.0, 5329.0, 5594.0, 5434.0
26	5500	9	1	333	1	5340.0, 5276.0, 5466.0, 5411.0, 5380.0, 5611.0, 5343.0, 5712.0, 5628.0, 5562.0, 5305.0, 5450.0, 5522.0, 5577.0, 5489.0, 5347.0, 5420.0, 5256.0, 5439.0, 5593.0, 5417.0, 5258.0, 5306.0, 5453.0, 5568.0, 5421.0, 5369.0, 5499.0, 5581.0, 5493.0, 5338.0, 5626.0, 5289.0, 5422.0, 5368.0, 5410.0, 5408.0, 5398.0, 5523.0, 5622.0, 5462.0, 5430.0, 5564.0, 5477.0, 5511.0, 5586.0, 5524.0, 5374.0, 5690.0, 5457.0, 5550.0, 5285.0, 5705.0, 5559.0, 5415.0, 5251.0, 5543.0, 5687.0, 5698.0, 5675.0, 5715.0, 5419.0, 5666.0, 5478.0, 5696.0, 5271.0, 5280.0, 5623.0, 5637.0, 5361.0, 5281.0, 5407.0, 5599.0, 5392.0, 5290.0, 5425.0, 5483.0, 5520.0, 5405.0, 5327.0, 5615.0, 5621.0, 5685.0, 5547.0, 5686.0, 5330.0, 5541.0, 5471.0, 5375.0, 5395.0, 5644.0, 5530.0, 5583.0, 5469.0, 5268.0, 5378.0, 5301.0, 5397.0, 5387.0, 5519.0
27	5500	9	1	333	1	5275.0, 5582.0, 5358.0, 5685.0, 5485.0, 5578.0, 5664.0, 5518.0, 5541.0, 5395.0, 5438.0, 5405.0, 5674.0, 5451.0, 5634.0, 5619.0, 5717.0, 5466.0, 5262.0, 5600.0, 5684.0, 5538.0, 5638.0, 5373.0, 5279.0, 5709.0, 5505.0, 5620.0, 5533.0, 5641.0, 5663.0, 5542.0, 5521.0, 5499.0, 5322.0, 5318.0, 5671.0, 5270.0, 5670.0, 5682.0, 5612.0, 5617.0, 5409.0, 5462.0, 5609.0, 5649.0, 5514.0, 5644.0, 5618.0, 5345.0, 5352.0, 5473.0, 5561.0, 5330.0, 5260.0, 5403.0, 5625.0, 5586.0, 5419.0, 5703.0, 5656.0, 5501.0, 5266.0, 5490.0, 5329.0, 5694.0, 5320.0, 5334.0, 5417.0, 5356.0,

						5623.0, 5413.0, 5698.0, 5440.0, 5447.0, 5669.0, 5296.0, 5662.0, 5721.0, 5515.0, 5355.0, 5696.0, 5354.0, 5267.0, 5693.0, 5432.0, 5263.0, 5563.0, 5481.0, 5597.0, 5524.0, 5680.0, 5513.0, 5302.0, 5714.0, 5569.0, 5281.0, 5294.0, 5520.0, 5668.0
28	5500	9	1	333	1	5647.0, 5257.0, 5341.0, 5676.0, 5405.0, 5664.0, 5296.0, 5550.0, 5696.0, 5465.0, 5375.0, 5448.0, 5255.0, 5300.0, 5324.0, 5393.0, 5607.0, 5306.0, 5326.0, 5640.0, 5424.0, 5322.0, 5357.0, 5697.0, 5545.0, 5344.0, 5612.0, 5378.0, 5514.0, 5421.0, 5389.0, 5250.0, 5263.0, 5598.0, 5509.0, 5615.0, 5630.0, 5439.0, 5317.0, 5581.0, 5391.0, 5443.0, 5534.0, 5570.0, 5567.0, 5481.0, 5659.0, 5569.0, 5523.0, 5431.0, 5583.0, 5406.0, 5254.0, 5394.0, 5262.0, 5585.0, 5529.0, 5675.0, 5541.0, 5548.0, 5490.0, 5711.0, 5418.0, 5256.0, 5673.0, 5639.0, 5467.0, 5400.0, 5445.0, 5454.0, 5307.0, 5558.0, 5367.0, 5632.0, 5437.0, 5716.0, 5614.0, 5482.0, 5506.0, 5628.0, 5521.0, 5402.0, 5623.0, 5329.0, 5683.0, 5455.0, 5466.0, 5315.0, 5358.0, 5605.0, 5620.0, 5604.0, 5409.0, 5461.0, 5508.0, 5446.0, 5495.0, 5674.0, 5353.0, 5430.0
29	5500	9	1	333	1	5459.0, 5523.0, 5648.0, 5568.0, 5347.0, 5325.0, 5533.0, 5402.0, 5513.0, 5331.0, 5581.0, 5271.0, 5505.0, 5290.0, 5536.0, 5320.0, 5506.0, 5571.0, 5391.0, 5650.0, 5601.0, 5614.0, 5255.0, 5303.0, 5684.0, 5617.0, 5376.0, 5443.0, 5309.0, 5666.0, 5317.0, 5677.0, 5691.0, 5348.0, 5575.0, 5717.0, 5264.0, 5653.0, 5412.0, 5554.0, 5485.0, 5705.0, 5253.0, 5576.0, 5514.0, 5326.0, 5440.0, 5605.0, 5378.0, 5357.0, 5417.0, 5535.0, 5398.0, 5709.0, 5590.0, 5496.0, 5483.0, 5542.0, 5498.0, 5349.0, 5548.0, 5267.0, 5297.0, 5682.0, 5258.0, 5416.0, 5282.0, 5323.0, 5442.0, 5268.0, 5577.0, 5270.0, 5629.0, 5476.0, 5461.0, 5314.0, 5541.0, 5353.0, 5507.0, 5630.0, 5427.0, 5685.0, 5547.0, 5469.0, 5401.0, 5324.0, 5597.0, 5262.0, 5675.0, 5659.0, 5692.0, 5633.0, 5687.0, 5618.0, 5649.0, 5413.0, 5549.0, 5478.0, 5668.0, 5457.0
30	5500	9	1	333	1	5275.0, 5412.0, 5505.0, 5319.0, 5610.0, 5606.0, 5534.0, 5576.0, 5266.0, 5294.0, 5675.0, 5499.0, 5587.0, 5718.0, 5646.0, 5555.0, 5686.0, 5641.0, 5512.0, 5530.0, 5696.0, 5427.0, 5331.0, 5402.0, 5440.0, 5413.0, 5431.0, 5417.0, 5441.0, 5272.0, 5255.0, 5391.0, 5435.0, 5376.0, 5550.0, 5403.0, 5638.0, 5446.0, 5405.0, 5290.0, 5615.0, 5316.0, 5583.0, 5605.0, 5341.0, 5712.0, 5584.0, 5523.0, 5710.0, 5659.0, 5475.0, 5318.0, 5393.0, 5544.0, 5683.0, 5436.0, 5703.0, 5437.0, 5690.0, 5450.0, 5477.0, 5665.0, 5658.0, 5466.0, 5643.0, 5474.0, 5538.0, 5459.0, 5536.0, 5511.0,

						5561.0, 5687.0, 5558.0, 5445.0, 5625.0, 5295.0, 5355.0, 5367.0, 5568.0, 5600.0, 5468.0, 5291.0, 5448.0, 5513.0, 5562.0, 5493.0, 5371.0, 5681.0, 5297.0, 5325.0, 5384.0, 5571.0, 5305.0, 5701.0, 5531.0, 5434.0, 5714.0, 5263.0, 5256.0, 5485.0

40MHz Bandwidth

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	100 %	60%	Pass
Type 1B	15	100%		
Type 2	30	86.7 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate (Type1 to 4)	120	95 %	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	99	1	538	1
3	5510	72	1	738	1
4	5510	83	1	638	1
5	5510	76	1	698	1
6	5510	81	1	658	1
7	5510	68	1	778	1
8	5510	67	1	798	1
9	5510	74	1	718	1
10	5510	92	1	578	1
11	5510	57	1	938	1
12	5510	59	1	898	1
13	5510	102	1	518	1
14	5510	63	1	838	1
15	5510	86	1	618	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	57	1	934	1
2	5510	42	1	1287	1
3	5510	22	1	2411	1
4	5510	20	1	2677	1
5	5510	24	1	2206	1
6	5510	23	1	2391	1
7	5510	29	1	1880	1
8	5510	37	1	1457	1
9	5510	34	1	1594	1
10	5510	33	1	1627	1
11	5510	64	1	831	1
12	5510	28	1	1900	1
13	5510	25	1	2172	1
14	5510	27	1	1957	1
15	5510	24	1	2213	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	27	4.3	169	1
2	5510	28	1.8	179	1
3	5510	26	3.3	153	1
4	5510	27	4.8	162	1
5	5510	27	4.5	227	1
6	5510	24	1.3	174	1
7	5510	25	1.2	177	1
8	5510	24	3.4	184	1
9	5510	28	2.6	202	1
10	5510	27	3.9	204	1
11	5510	27	3.9	172	1
12	5510	25	3.1	191	1
13	5510	27	1.7	229	1
14	5510	29	2.8	157	1
15	5510	27	4.7	171	1
16	5510	28	2.8	219	1
17	5510	25	4.6	217	1
18	5510	28	1	199	1
19	5510	29	2.6	204	1
20	5510	25	3.3	211	1
21	5510	28	3.7	200	0
22	5510	29	4.9	159	1
23	5510	26	3.5	213	0
24	5510	24	3	222	1
25	5510	27	5	195	0
26	5510	23	3.2	222	1
27	5510	27	3.6	216	0
28	5510	27	5	160	1
29	5510	24	3.3	208	1
30	5510	25	2	186	1
Detection Percentage: 86.7 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	16	6	407	1
2	5510	17	9.2	436	1
3	5510	18	7.9	460	1
4	5510	16	8.2	497	1
5	5510	16	6.7	493	1
6	5510	18	6.2	354	1
7	5510	18	8.9	373	1
8	5510	18	8.2	401	1
9	5510	16	9.8	440	1
10	5510	16	9	464	1
11	5510	18	8.5	279	1
12	5510	17	6.5	289	1
13	5510	16	7.4	355	1
14	5510	16	9.8	443	1
15	5510	17	9.6	451	1
16	5510	16	9.4	455	1
17	5510	18	6	494	1
18	5510	16	7.7	323	1
19	5510	17	6.6	326	1
20	5510	16	8.5	484	1
21	5510	16	7.2	368	1
22	5510	18	7.9	488	1
23	5510	17	7.8	212	1
24	5510	18	7.1	358	1
25	5510	18	7.4	290	1
26	5510	16	8.8	472	1
27	5510	17	6.8	479	1
28	5510	17	6.2	463	1
29	5510	18	7.3	201	1
30	5510	17	9.1	284	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	15	13.4	497	1
2	5510	16	14	347	1
3	5510	15	13.5	357	1
4	5510	12	15.5	311	1
5	5510	14	13	486	1
6	5510	15	14.2	400	1
7	5510	16	14.2	451	1
8	5510	15	15.9	253	1
9	5510	15	14.9	298	1
10	5510	12	16.4	364	1
11	5510	14	16.6	442	1
12	5510	15	15.9	449	1
13	5510	15	17.2	237	1
14	5510	15	11.3	212	1
15	5510	14	13	224	1
16	5510	13	19.1	290	1
17	5510	16	18.2	402	1
18	5510	13	17	306	1
19	5510	12	18	463	1
20	5510	15	19.1	429	1
21	5510	16	18.1	358	1
22	5510	15	13	237	0
23	5510	12	18.6	386	1
24	5510	12	17.1	297	0
25	5510	15	16.7	477	1
26	5510	13	15.5	221	1
27	5510	16	13.6	204	1
28	5510	14	12.3	324	1
29	5510	14	12.9	486	1
30	5510	15	19.9	258	1
Detection Percentage: 93.3 % (>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	2	9	97.6	1835	/	1.437788	1
1	2	9	97.4	1484	/	2.329646	
2	3	9	82.3	1226	1006	3.578604	
3	3	9	62.4	1682	1929	5.268963	
4	2	9	84.9	1653	/	6.553735	
5	3	9	81.5	1369	1651	8.498135	
6	1	9	96.8	/	/	9.172699	
7	1	9	50	/	/	11.86017	

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	6	84.4	1314	/	0.281094	1
1	2	6	81.7	1702	/	1.37935	
2	2	6	98.2	1124	/	2.4155	
3	2	6	71	1828	/	3.406386	
4	2	6	66	1679	/	4.35368	
5	3	6	53.8	1237	1001	4.706762	
6	2	6	69.7	1916	/	5.890978	
7	3	6	76	1286	1069	6.829558	
8	2	6	59.9	1770	/	7.71342	
9	3	6	87.7	1988	1460	8.613329	
10	2	6	88.4	1667	/	9.706405	
11	3	6	53.2	1743	1857	10.15687	
12	3	6	83.2	1392	1651	11.20916	

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	2	11	90.9	1247	/	0.506545	1
1	2	11	79.3	1083	/	1.213721	
2	1	11	59.9	/	/	2.091664	
3	2	11	76.5	1287	/	2.269156	
4	2	11	97.2	1125	/	3.385689	
5	2	11	76.5	1838	/	4.141298	
6	3	11	89.3	1581	1379	5.012875	
7	2	11	73.6	1910	/	5.897949	
8	3	11	59.9	1200	1002	6.229906	
9	2	11	62.6	1558	/	7.090376	
10	2	11	90.8	1059	/	8.225792	
11	3	11	85.6	1952	1948	8.681758	
12	2	11	92.1	1044	/	9.561543	
13	3	11	59.9	1206	1162	10.40694	
14	1	11	97.8	/	/	11.03865	
15	2	11	85.9	1789	/	11.49668	

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	1	8	97.7	/	/	1.281334	1
1	2	8	63.9	1957	/	2.946256	
2	1	8	76.2	/	/	3.046636	
3	2	8	58.3	1430	/	5.85403	
4	1	8	77.3	/	/	6.14889	
5	2	8	60.3	1443	/	8.752313	
6	1	8	93.4	/	/	9.712428	
7	2	8	67.3	1108	/	11.42505	

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	14	75	1924	/	0.532555	1
1	1	14	79.5	/	/	0.715394	
2	3	14	52.1	1426	1991	1.659868	
3	2	14	94.1	1335	/	1.992385	
4	2	14	62.3	1231	/	2.903163	
5	3	14	61.1	1852	1488	3.357225	
6	3	14	87.2	1760	1819	3.983812	
7	2	14	91.9	1444	/	4.621378	
8	2	14	74.8	1054	/	4.971408	
9	2	14	72.5	1138	/	5.666077	
10	3	14	81.4	1979	1952	6.418629	
11	2	14	57.8	1267	/	7.180787	
12	1	14	77.5	/	/	7.642337	
13	3	14	85.2	1686	1773	8.320955	
14	2	14	68.3	1056	/	8.783455	
15	1	14	56.3	/	/	9.53895	
16	3	14	92.9	1947	1761	9.993778	
17	1	14	85.8	/	/	10.67092	
18	2	14	94.7	1359	/	11.0323	
19	3	14	93.7	1654	1303	11.67695	

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	2	7	93.2	1496	/	0.178868	1
1	2	7	87.5	1541	/	0.693263	
2	2	7	50.8	1323	/	1.843159	
3	2	7	54.8	1149	/	2.013635	
4	1	7	81.1	/	/	2.956843	
5	2	7	92.5	1375	/	3.239669	
6	1	7	69	/	/	4.282105	
7	2	7	57.2	1549	/	4.488461	
8	3	7	82	1170	1480	5.520934	
9	2	7	72.9	1278	/	6.290554	
10	2	7	97.7	1798	/	6.71666	
11	2	7	85.9	1381	/	6.994202	
12	2	7	82.7	1287	/	7.617008	
13	2	7	86.1	1512	/	8.285965	
14	3	7	90.8	1633	1926	9.168793	
15	2	7	65.2	1078	/	10.00366	
16	2	7	54.5	1348	/	10.34953	
17	3	7	90.6	1758	1593	11.03819	
18	2	7	67.3	1854	/	11.55659	

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	12	78.6	1617	1509	0.562085	
1	3	12	71.1	1271	1124	1.420168	
2	3	12	60.8	1803	1584	2.314801	
3	2	12	55.4	1605	/	3.094044	
4	2	12	85	1166	/	3.630008	
5	2	12	87.7	1212	/	4.259579	
6	1	12	71.7	/	/	5.24449	
7	3	12	77.9	1193	1613	6.132779	1
8	1	12	50.2	/	/	6.936651	
9	3	12	64.6	1694	1881	7.731741	
10	1	12	58.8	/	/	8.041096	
11	2	12	61.3	1426	/	9.172029	
12	2	12	68.9	1706	/	9.813171	
13	3	12	91.3	1702	1181	11.13789	
14	2	12	83	1637	/	11.51517	

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	2	6	68.2	1186	/	0.111119	
1	1	6	85.1	/	/	1.213543	
2	1	6	59.1	/	/	1.562909	
3	1	6	72.5	/	/	2.297779	
4	2	6	89.9	1127	/	3.336076	
5	2	6	69.5	1281	/	4.082623	
6	1	6	62.3	/	/	5.210063	
7	1	6	59.6	/	/	5.94302	
8	2	6	98.3	1350	/	6.101911	1
9	3	6	91.3	1500	1322	7.121796	
10	2	6	93.8	1048	/	7.699091	
11	2	6	66.4	1404	/	8.761557	
12	3	6	63.9	1614	1239	9.73947	
13	3	6	53.8	1132	1350	10.32954	
14	2	6	92.8	1757	/	10.90793	
15	1	6	94	/	/	11.76447	

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	3	14	81.1	1764	1838	0.218477	1
1	2	14	95.3	1411	/	1.075753	
2	1	14	62.8	/	/	1.486397	
3	3	14	62.6	1586	1339	2.221523	
4	2	14	97.1	1278	/	2.796165	
5	3	14	89.7	1434	1791	3.426841	
6	3	14	83.7	1464	1809	4.07489	
7	1	14	71.9	/	/	4.377982	
8	1	14	88.2	/	/	5.093896	
9	2	14	76.4	1612	/	5.798353	
10	1	14	76.2	/	/	6.411651	
11	1	14	90.5	/	/	7.110148	
12	2	14	86.2	1746	/	7.469796	
13	3	14	96.8	1443	1424	7.913325	
14	1	14	72	/	/	8.639019	
15	1	14	79.1	/	/	9.440717	
16	3	14	67.1	1380	1419	9.918033	
17	3	14	73.6	1872	1541	10.23724	
18	1	14	71	/	/	11.06764	
19	3	14	59.8	1069	1500	11.58102	

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	15	92.9	1774	/	0.773294	1
1	2	15	96.9	1833	/	1.224679	
2	1	15	53.1	/	/	3.474896	
3	1	15	59	/	/	3.844171	
4	2	15	91.8	1766	/	5.272985	
5	1	15	83.5	/	/	6.302524	
6	2	15	63.8	1358	/	7.640608	
7	2	15	64.7	1379	/	9.447686	
8	2	15	54.2	1545	/	9.873414	
9	2	15	93.4	1958	/	10.94277	

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	1	5	53.6	/	/	0.099743	1
1	2	5	54.4	1714	/	1.043513	
2	2	5	74.1	1309	/	1.632612	
3	2	5	79.4	1141	/	2.517371	
4	2	5	92.5	1021	/	3.233561	
5	2	5	65.5	1181	/	3.756446	
6	2	5	51.3	1582	/	4.038568	
7	3	5	56.6	1091	1975	4.69062	
8	2	5	85.2	1486	/	5.474232	
9	2	5	64.5	1560	/	6.249757	
10	2	5	75.4	1143	/	7.279992	
11	3	5	55.9	1179	1671	7.718664	
12	1	5	54.9	/	/	8.24162	
13	3	5	52	1796	1400	9.058591	
14	3	5	95.5	1491	1103	9.608006	
15	1	5	60.7	/	/	10.14239	
16	2	5	52.3	1104	/	10.91463	
18	1	5	70.8	/	/	11.98245	

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	17	86.2	1212	1790	0.439957	1
1	2	17	54.9	1261	/	1.222152	
2	1	17	69.3	/	/	1.757556	
3	1	17	90.8	/	/	2.039671	
4	1	17	75.5	/	/	2.879747	
5	3	17	89.8	1906	1806	3.562579	
6	3	17	81.6	1353	1137	4.408486	
7	2	17	95.1	1740	/	4.783305	
8	3	17	76.1	1910	1542	5.229631	
9	3	17	86.7	1619	1827	6.090165	
10	2	17	88.3	1542	/	6.545309	
11	1	17	62.5	/	/	7.112268	
12	3	17	82.8	1850	1881	8.065687	
13	1	17	59.8	/	/	8.35877	
14	1	17	63.6	/	/	9.151477	
15	3	17	80.1	1473	1907	9.692266	
16	2	17	54.5	1089	/	10.40833	
17	3	17	69	1313	1326	11.01675	
18	1	17	82.3	/	/	11.9137	

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	1	17	98.2	/	/	0.141541	1
1	1	17	95.8	/	/	1.081249	
2	3	17	93.7	1879	1674	1.695992	
3	1	17	81	/	/	2.160851	
4	2	17	88.4	1885	/	2.711699	
5	3	17	73	1875	1046	3.372993	
6	2	17	69.2	1400	/	4.297626	
7	2	17	84.2	1030	/	4.608974	
8	3	17	82.8	1901	1322	5.233144	
9	2	17	77.3	1294	/	5.90468	
10	1	17	89	/	/	6.366048	
11	1	17	91.2	/	/	7.558166	
12	3	17	73.7	1181	1842	7.960623	
13	2	17	76.9	1503	/	8.807159	
14	2	17	57.2	1472	/	8.923327	
15	2	17	64	1590	/	10.08898	
16	2	17	54.7	1595	/	10.25749	
17	3	17	69	1553	1138	11.09198	
18	3	17	51.2	1144	1080	11.75494	

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	19	80.5	1646	1688	0.322552	1
1	3	19	50.8	1779	1630	1.410591	
2	1	19	70.2	/	/	2.80883	
3	2	19	61.3	1310	/	4.149653	
4	2	19	88.6	1176	/	5.415885	
5	2	19	93	1409	/	7.915481	
6	2	19	75.9	1225	/	8.029258	
7	2	19	74.3	1974	/	10.3188	
8	3	19	56.7	1504	1394	11.99387	

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	2	14	86.7	1075	/	0.684245	1
1	1	14	76.7	/	/	1.601304	
2	2	14	82	1329	/	2.576203	
3	1	14	54.7	/	/	3.80186	
4	3	14	55.8	1117	1796	5.289001	
5	1	14	97.7	/	/	6.335381	
6	2	14	77	1502	/	7.255106	
7	2	14	96.9	1723	/	7.883642	
8	1	14	97.2	/	/	9.019833	
9	3	14	84.3	1618	1168	10.51762	
10	1	14	68.1	/	/	11.61473	

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	2	9	86.7	1121	/	1.057256	1
1	1	9	61	/	/	1.85917	
2	1	9	63	/	/	3.137979	
3	3	9	68.6	1390	1268	4.453316	
4	1	9	92.5	/	/	5.578574	
5	1	9	59.4	/	/	6.234371	
6	3	9	89	1234	1225	8.13616	
7	2	9	74.7	1836	/	8.822568	
8	2	9	79.1	1476	/	10.43208	
9	3	9	80	1735	1697	11.9868	

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	1	19	50.7	/	/	0.050661	1
1	2	19	59.3	1880	/	1.365841	
2	2	19	78.9	1337	/	1.739901	
3	1	19	61.4	/	/	2.404165	
4	3	19	58.7	1474	1317	3.125585	
5	3	19	58.5	1456	1746	4.178198	
6	2	19	96	1179	/	4.798942	
7	2	19	98.3	1311	/	5.429897	
8	2	19	64.2	1417	/	6.221594	
9	3	19	62.7	1548	1436	7.089635	
10	2	19	81.4	1691	/	7.681589	
11	1	19	83.2	/	/	8.901035	
12	3	19	89.1	1707	1785	9.378195	
13	2	19	93.4	1467	/	10.27123	
14	1	19	75.5	/	/	10.93105	
15	2	19	91.2	1120	/	11.43992	

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	2	6	74.2	1899	/	0.612363	1
1	2	6	53.2	1697	/	1.367381	
2	3	6	64.9	1794	1954	1.653041	
3	2	6	68	1744	/	2.940101	
4	1	6	55.6	/	/	3.10372	
5	2	6	55.5	1645	/	4.313158	
6	2	6	54.3	1870	/	5.181462	
7	2	6	92.8	1649	/	5.688829	
8	1	6	62.9	/	/	6.468838	
9	2	6	85.8	1289	/	7.451897	
10	2	6	57.9	1815	/	7.959138	
11	3	6	84.7	1481	1307	8.312621	
12	3	6	61.4	1982	1444	9.232246	
13	3	6	60.4	1313	1045	9.936992	
14	2	6	87.9	1159	/	11.23592	
15	3	6	64.5	1957	1990	11.78717	

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	1	7	64.4	/	/	0.629843	1
1	2	7	92.4	1419	/	1.288174	
2	1	7	93.5	/	/	3.011172	
3	1	7	53.8	/	/	4.039177	
4	3	7	64.9	1489	1486	5.197922	
5	2	7	93.4	1789	/	5.552356	
6	3	7	84.5	1764	1813	6.693747	
7	1	7	69.8	/	/	7.708658	
8	1	7	63.5	/	/	9.163671	
9	2	7	90.2	1225	/	10.83943	
10	2	7	64.9	1799	/	11.29443	

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	2	18	50.8	1377	/	0.769767	1
1	2	18	53.3	1642	/	0.921942	
2	1	18	53.1	/	/	1.929922	
3	3	18	88.8	1834	1888	2.748418	
4	2	18	79.1	1495	/	3.37328	
5	1	18	75.9	/	/	4.378736	
6	1	18	83.2	/	/	5.585869	
7	2	18	72.3	1354	/	5.931224	
8	2	18	92.4	1172	/	6.895776	
9	1	18	83	/	/	7.511159	
10	2	18	90.6	1930	/	8.099947	
11	1	18	51.8	/	/	8.892279	
12	2	18	52.5	1796	/	9.895063	
13	2	18	67.5	1958	/	10.52866	
14	3	18	65.1	1561	1493	11.54764	

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	7	94.2	/	/	0.494029	1
1	1	7	89.7	/	/	1.001601	
2	1	7	92.9	/	/	1.746622	
3	1	7	94.1	/	/	2.963544	
4	2	7	83.5	1838	/	3.637093	
5	2	7	60	1178	/	4.778039	
6	2	7	57.3	1673	/	5.020917	
7	2	7	73.4	1852	/	6.117145	
8	2	7	91.1	1668	/	6.472212	
9	2	7	78.7	1525	/	7.558961	
10	1	7	75.2	/	/	8.408925	
11	1	7	59.6	/	/	9.451722	
12	3	7	98.6	1633	1640	9.699953	
13	2	7	66.1	1521	/	10.59729	
14	2	7	82	1240	/	11.9812	

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	3	18	85.4	1154	1008	1.070385	1
1	1	18	70.8	/	/	1.624712	
2	1	18	68.9	/	/	2.552472	
3	3	18	77	1284	1760	3.656474	
4	3	18	100	1078	1182	5.561638	
5	2	18	51.7	1328	/	6.539095	
6	2	18	74.3	1392	/	7.243069	
7	1	18	54.2	/	/	8.530029	
8	2	18	97.2	1087	/	10.19906	
9	3	18	53.8	1532	1566	10.91461	

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	64.9	1681	/	0.539866	1
1	2	17	98.1	1421	/	1.905518	
2	3	17	63.3	1462	1434	2.842401	
3	1	17	97.7	/	/	3.294284	
4	3	17	51.7	1714	1641	4.230117	
5	1	17	94.6	/	/	5.403549	
6	2	17	59	1384	/	6.30619	
7	3	17	63.5	1167	1715	7.638705	
8	1	17	54.1	/	/	8.538358	
9	2	17	91.2	1802	/	9.712316	
10	3	17	80.9	1455	1542	10.57438	
11	3	17	56.4	1600	1108	11.94177	

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	14	55.1	1711	/	0.437895	1
1	3	14	68.9	1995	1503	1.19677	
2	3	14	57.7	1519	1680	2.365522	
3	2	14	52.2	1142	/	3.291163	
4	3	14	81.9	1907	1850	3.581367	
5	1	14	56	/	/	4.929988	
6	2	14	84	1326	/	5.340451	
7	1	14	93.4	/	/	6.637912	
8	3	14	94.2	1251	1375	7.608726	
9	3	14	82.4	1254	1194	8.51783	
10	2	14	82.7	1658	/	9.195536	
11	2	14	63	1482	/	10.21317	
12	3	14	60	1029	1039	10.98962	
13	2	14	65.3	1405	/	11.65863	

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	2	12	96.3	1007	/	0.408547	
1	1	12	79.8	/	/	0.947979	
2	1	12	92.7	/	/	1.853742	
3	2	12	67.9	1652	/	2.223186	
4	2	12	74.7	1139	/	3.132433	
5	3	12	60.9	1645	1161	3.641109	
6	3	12	59.8	1278	1664	4.275991	
7	3	12	87.2	1290	1154	4.53968	
8	2	12	99.9	1274	/	5.118527	
9	2	12	69.5	1840	/	6.049053	1
10	3	12	62	1253	1229	6.477115	
11	2	12	91.6	1871	/	7.485455	
12	3	12	99.2	1149	1926	7.66092	
13	2	12	95	1861	/	8.268998	
14	2	12	84.8	1584	/	8.872548	
15	2	12	58.5	1038	/	9.656421	
16	3	12	76.1	1690	1520	10.34239	
17	2	12	61.8	1701	/	11.27621	
18	3	12	99	1640	1191	11.42489	

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	3	16	93.6	1569	1829	0.591328	
1	2	16	62.9	1528	/	0.898259	
2	3	16	55.5	1480	1998	1.506295	
3	1	16	87.6	/	/	2.708658	
4	1	16	67.8	/	/	3.23459	
5	3	16	51	1797	1238	4.186439	
6	2	16	98	1212	/	4.502297	
7	1	16	89.6	/	/	5.606556	
8	2	16	93.4	1364	/	5.678501	1
9	2	16	93.4	1232	/	7.043384	
10	2	16	90.5	1157	/	7.687411	
11	2	16	58	1157	/	8.385656	
12	2	16	81.1	1240	/	8.555009	
13	1	16	57.4	/	/	9.706219	
14	3	16	77.7	1176	1483	10.33301	
15	2	16	52.8	1046	/	10.99488	
16	3	16	62.9	1123	1443	11.789	

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	3	8	72.8	1240	1039	0.405132	
1	2	8	70.3	1724	/	0.66865	
2	2	8	82.6	1026	/	1.495571	
3	2	8	77.8	1114	/	1.964765	
4	1	8	96.6	/	/	3.119907	
5	2	8	54.6	1081	/	3.334772	
6	2	8	54.8	1218	/	4.186305	
7	2	8	52.3	1831	/	4.527823	
8	3	8	75.4	1055	1403	5.534292	
9	2	8	52.7	1937	/	5.818604	1
10	2	8	63.4	1428	/	6.835399	
11	2	8	87	1786	/	7.292665	
12	2	8	61.4	1475	/	8.00052	
13	3	8	93.7	1347	1753	8.215153	
14	3	8	80.1	1199	1959	9.437192	
15	2	8	60.4	1826	/	9.545765	
16	2	8	73.2	1889	/	10.47626	
17	2	8	88.2	1801	/	10.97769	
18	2	8	96.9	1590	/	11.8637	

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	3	18	72.2	1186	1908	0.433027	
1	1	18	68.1	/	/	0.974996	
2	2	18	83.3	1237	/	1.73238	
3	1	18	82.9	/	/	2.258994	
4	3	18	89.5	1677	1558	3.104976	
5	1	18	66.8	/	/	4.169633	
6	1	18	52.3	/	/	5.242353	
7	3	18	63	1601	1594	5.283298	
8	2	18	61.7	1606	/	6.636141	1
9	3	18	60.8	1206	1556	6.95771	
10	3	18	67.5	1228	1164	8.084379	
11	2	18	93.2	1715	/	8.859565	
12	3	18	69	1931	1233	9.386776	
13	1	18	67.8	/	/	10.25974	
14	1	18	54	/	/	11.0095	
15	2	18	89.7	1811	/	11.89443	

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	1	12	85	/	/	0.367612	1
1	2	12	72.6	1049	/	1.067763	
2	2	12	86.7	1188	/	2.674414	
3	2	12	84.1	1612	/	3.700131	
4	3	12	78.5	1992	1382	4.116412	
5	2	12	58	1809	/	5.548685	
6	2	12	93.9	1176	/	6.3874	
7	3	12	72.2	1870	1707	7.336702	
8	2	12	76	1787	/	8.767512	
9	1	12	83.6	/	/	9.776744	
10	1	12	89	/	/	10.37673	
11	2	12	89.1	1616	/	11.41366	

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	3	19	99.5	1646	1371	1.40083	1
1	2	19	72.6	1395	/	1.786552	
2	1	19	90.3	/	/	3.668155	
3	1	19	59.8	/	/	5.991283	
4	3	19	69.5	1575	1992	6.297775	
5	2	19	70.8	1805	/	8.560144	
6	2	19	50.1	1887	/	9.488276	
7	2	19	62.2	1478	/	10.63933	

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	5563.0, 5624.0, 5571.0, 5356.0, 5444.0, 5532.0, 5625.0, 5602.0, 5622.0, 5471.0, 5665.0, 5342.0, 5520.0, 5386.0, 5474.0, 5664.0, 5698.0, 5682.0, 5445.0, 5630.0, 5307.0, 5435.0, 5457.0, 5712.0, 5311.0, 5719.0, 5685.0, 5390.0, 5539.0, 5519.0, 5394.0, 5315.0, 5344.0, 5490.0, 5533.0, 5648.0, 5534.0, 5470.0, 5267.0, 5480.0, 5609.0, 5656.0, 5708.0, 5388.0, 5613.0, 5577.0, 5295.0, 5326.0, 5695.0, 5485.0, 5460.0, 5566.0, 5355.0, 5407.0, 5640.0, 5691.0, 5569.0, 5459.0, 5324.0, 5572.0, 5565.0, 5305.0, 5502.0, 5468.0, 5381.0, 5348.0, 5452.0, 5672.0, 5514.0, 5395.0, 5384.0, 5483.0, 5439.0, 5377.0, 5658.0, 5290.0, 5580.0, 5597.0, 5451.0, 5690.0, 5552.0, 5484.0, 5717.0, 5437.0, 5657.0, 5322.0, 5309.0, 5491.0, 5629.0, 5527.0, 5543.0, 5638.0, 5367.0, 5316.0, 5454.0, 5683.0, 5430.0, 5619.0, 5517.0, 5253.0
2	5510	9	1	333	1	5346.0, 5547.0, 5355.0, 5415.0, 5526.0, 5422.0, 5508.0, 5409.0, 5350.0, 5699.0, 5575.0, 5491.0, 5603.0, 5704.0, 5437.0, 5616.0, 5635.0, 5272.0, 5688.0, 5489.0, 5709.0, 5659.0, 5548.0, 5546.0, 5406.0, 5306.0, 5426.0, 5685.0, 5665.0, 5675.0, 5419.0, 5577.0, 5418.0, 5391.0, 5319.0, 5599.0, 5700.0, 5321.0, 5642.0, 5364.0, 5316.0, 5410.0, 5367.0, 5626.0, 5363.0, 5276.0, 5531.0, 5687.0, 5351.0, 5271.0, 5529.0, 5252.0, 5678.0, 5667.0, 5494.0, 5560.0, 5723.0, 5543.0, 5516.0, 5467.0, 5721.0, 5449.0, 5386.0, 5650.0, 5338.0, 5563.0, 5598.0, 5284.0, 5371.0, 5401.0, 5287.0, 5342.0, 5382.0, 5309.0, 5357.0, 5722.0, 5466.0, 5632.0, 5304.0, 5436.0, 5612.0, 5671.0, 5690.0, 5522.0, 5537.0, 5503.0, 5274.0, 5676.0, 5712.0, 5375.0, 5513.0, 5256.0, 5674.0, 5292.0, 5414.0, 5432.0, 5417.0, 5299.0, 5440.0, 5493.0
3	5510	9	1	333	1	5256.0, 5454.0, 5628.0, 5292.0, 5252.0, 5528.0, 5361.0, 5723.0, 5572.0, 5602.0, 5494.0, 5311.0, 5392.0, 5340.0, 5564.0, 5711.0, 5516.0, 5258.0, 5324.0, 5556.0, 5265.0, 5435.0, 5583.0, 5251.0, 5673.0, 5428.0, 5513.0, 5424.0, 5498.0, 5666.0, 5364.0, 5489.0, 5660.0, 5480.0, 5720.0, 5476.0, 5264.0, 5625.0, 5488.0, 5677.0, 5650.0, 5431.0, 5578.0, 5547.0, 5541.0, 5562.0, 5275.0, 5635.0, 5386.0, 5576.0, 5507.0, 5679.0, 5686.0, 5440.0, 5260.0, 5500.0, 5617.0, 5495.0, 5300.0, 5715.0, 5612.0, 5690.0, 5496.0, 5695.0, 5534.0, 5471.0, 5655.0, 5671.0, 5280.0, 5375.0,

						5579.0, 5687.0, 5611.0, 5634.0, 5522.0, 5415.0, 5653.0, 5393.0, 5590.0, 5259.0, 5367.0, 5646.0, 5333.0, 5385.0, 5605.0, 5509.0, 5379.0, 5511.0, 5716.0, 5701.0, 5335.0, 5433.0, 5688.0, 5588.0, 5652.0, 5464.0, 5569.0, 5615.0, 5289.0, 5302.0
4	5510	9	1	333	1	5360.0, 5581.0, 5284.0, 5589.0, 5390.0, 5665.0, 5372.0, 5694.0, 5377.0, 5461.0, 5436.0, 5579.0, 5522.0, 5692.0, 5707.0, 5341.0, 5269.0, 5716.0, 5398.0, 5324.0, 5384.0, 5610.0, 5306.0, 5463.0, 5473.0, 5637.0, 5653.0, 5577.0, 5723.0, 5281.0, 5375.0, 5434.0, 5356.0, 5338.0, 5592.0, 5555.0, 5406.0, 5416.0, 5296.0, 5385.0, 5649.0, 5709.0, 5510.0, 5294.0, 5536.0, 5530.0, 5558.0, 5576.0, 5613.0, 5286.0, 5400.0, 5615.0, 5504.0, 5687.0, 5714.0, 5448.0, 5564.0, 5475.0, 5412.0, 5423.0, 5569.0, 5525.0, 5295.0, 5718.0, 5268.0, 5493.0, 5479.0, 5535.0, 5417.0, 5303.0, 5643.0, 5494.0, 5537.0, 5722.0, 5482.0, 5304.0, 5477.0, 5697.0, 5279.0, 5503.0, 5673.0, 5604.0, 5316.0, 5335.0, 5478.0, 5348.0, 5717.0, 5501.0, 5582.0, 5572.0, 5647.0, 5439.0, 5388.0, 5618.0, 5462.0, 5366.0, 5527.0, 5259.0, 5464.0, 5683.0
5	5510	9	1	333	1	5536.0, 5286.0, 5503.0, 5653.0, 5473.0, 5677.0, 5400.0, 5493.0, 5631.0, 5302.0, 5541.0, 5520.0, 5670.0, 5719.0, 5549.0, 5483.0, 5479.0, 5699.0, 5289.0, 5299.0, 5648.0, 5680.0, 5543.0, 5256.0, 5620.0, 5551.0, 5666.0, 5568.0, 5635.0, 5384.0, 5309.0, 5252.0, 5581.0, 5272.0, 5456.0, 5426.0, 5552.0, 5530.0, 5529.0, 5714.0, 5688.0, 5431.0, 5324.0, 5447.0, 5399.0, 5421.0, 5388.0, 5404.0, 5274.0, 5579.0, 5672.0, 5592.0, 5352.0, 5644.0, 5502.0, 5340.0, 5329.0, 5263.0, 5643.0, 5722.0, 5603.0, 5572.0, 5361.0, 5490.0, 5367.0, 5513.0, 5280.0, 5629.0, 5614.0, 5591.0, 5707.0, 5348.0, 5465.0, 5320.0, 5416.0, 5594.0, 5328.0, 5504.0, 5347.0, 5341.0, 5338.0, 5389.0, 5650.0, 5357.0, 5283.0, 5587.0, 5366.0, 5372.0, 5467.0, 5570.0, 5276.0, 5469.0, 5544.0, 5675.0, 5506.0, 5435.0, 5515.0, 5609.0, 5337.0, 5298.0
6	5510	9	1	333	1	5573.0, 5512.0, 5465.0, 5448.0, 5273.0, 5686.0, 5272.0, 5592.0, 5677.0, 5509.0, 5687.0, 5595.0, 5264.0, 5422.0, 5515.0, 5440.0, 5349.0, 5405.0, 5639.0, 5442.0, 5672.0, 5628.0, 5557.0, 5507.0, 5563.0, 5408.0, 5355.0, 5495.0, 5497.0, 5585.0, 5350.0, 5631.0, 5695.0, 5360.0, 5599.0, 5361.0, 5609.0, 5566.0, 5362.0, 5320.0, 5386.0, 5310.0, 5500.0, 5265.0, 5354.0, 5456.0, 5253.0, 5562.0, 5711.0, 5384.0, 5555.0, 5294.0, 5718.0, 5473.0, 5291.0, 5305.0, 5278.0, 5716.0, 5647.0, 5276.0, 5313.0, 5292.0, 5499.0, 5717.0, 5644.0, 5510.0, 5348.0, 5393.0, 5606.0, 5518.0,

						5525.0, 5598.0, 5324.0, 5321.0, 5596.0, 5578.0, 5485.0, 5332.0, 5604.0, 5373.0, 5338.0, 5252.0, 5472.0, 5380.0, 5308.0, 5689.0, 5549.0, 5572.0, 5425.0, 5289.0, 5700.0, 5621.0, 5267.0, 5284.0, 5511.0, 5673.0, 5328.0, 5330.0, 5685.0, 5379.0
7	5510	9	1	333	1	5582.0, 5455.0, 5529.0, 5531.0, 5345.0, 5567.0, 5699.0, 5650.0, 5275.0, 5265.0, 5410.0, 5634.0, 5431.0, 5587.0, 5479.0, 5718.0, 5481.0, 5348.0, 5578.0, 5253.0, 5688.0, 5697.0, 5566.0, 5633.0, 5522.0, 5629.0, 5287.0, 5276.0, 5391.0, 5456.0, 5677.0, 5476.0, 5686.0, 5350.0, 5723.0, 5380.0, 5496.0, 5339.0, 5565.0, 5419.0, 5390.0, 5429.0, 5397.0, 5597.0, 5497.0, 5513.0, 5574.0, 5273.0, 5445.0, 5651.0, 5373.0, 5383.0, 5585.0, 5635.0, 5606.0, 5703.0, 5710.0, 5636.0, 5398.0, 5532.0, 5528.0, 5509.0, 5591.0, 5560.0, 5458.0, 5614.0, 5552.0, 5570.0, 5359.0, 5362.0, 5335.0, 5559.0, 5442.0, 5685.0, 5475.0, 5330.0, 5708.0, 5609.0, 5388.0, 5396.0, 5556.0, 5515.0, 5485.0, 5618.0, 5671.0, 5596.0, 5436.0, 5483.0, 5261.0, 5427.0, 5372.0, 5321.0, 5402.0, 5638.0, 5466.0, 5724.0, 5600.0, 5292.0, 5326.0, 5459.0
8	5510	9	1	333	1	5545.0, 5537.0, 5530.0, 5474.0, 5701.0, 5262.0, 5344.0, 5549.0, 5428.0, 5471.0, 5274.0, 5286.0, 5357.0, 5626.0, 5263.0, 5653.0, 5282.0, 5467.0, 5671.0, 5719.0, 5674.0, 5320.0, 5529.0, 5479.0, 5256.0, 5694.0, 5695.0, 5285.0, 5321.0, 5442.0, 5629.0, 5656.0, 5444.0, 5420.0, 5569.0, 5473.0, 5599.0, 5531.0, 5553.0, 5464.0, 5311.0, 5533.0, 5261.0, 5722.0, 5370.0, 5555.0, 5307.0, 5470.0, 5571.0, 5298.0, 5310.0, 5641.0, 5540.0, 5449.0, 5692.0, 5305.0, 5377.0, 5670.0, 5496.0, 5325.0, 5257.0, 5608.0, 5345.0, 5388.0, 5543.0, 5579.0, 5290.0, 5604.0, 5415.0, 5548.0, 5504.0, 5466.0, 5327.0, 5676.0, 5573.0, 5326.0, 5410.0, 5329.0, 5332.0, 5588.0, 5280.0, 5619.0, 5594.0, 5267.0, 5675.0, 5506.0, 5398.0, 5721.0, 5259.0, 5260.0, 5637.0, 5319.0, 5603.0, 5638.0, 5489.0, 5527.0, 5399.0, 5315.0, 5669.0, 5405.0
9	5510	9	1	333	1	5678.0, 5551.0, 5455.0, 5560.0, 5360.0, 5586.0, 5581.0, 5371.0, 5496.0, 5516.0, 5646.0, 5406.0, 5419.0, 5283.0, 5470.0, 5582.0, 5663.0, 5489.0, 5254.0, 5380.0, 5420.0, 5547.0, 5480.0, 5611.0, 5576.0, 5302.0, 5274.0, 5474.0, 5593.0, 5613.0, 5397.0, 5307.0, 5687.0, 5276.0, 5712.0, 5464.0, 5344.0, 5449.0, 5412.0, 5682.0, 5343.0, 5572.0, 5262.0, 5723.0, 5577.0, 5374.0, 5672.0, 5378.0, 5427.0, 5513.0, 5660.0, 5372.0, 5366.0, 5570.0, 5465.0, 5336.0, 5453.0, 5335.0, 5632.0, 5706.0, 5270.0, 5656.0, 5584.0, 5443.0, 5339.0, 5361.0, 5416.0, 5510.0, 5251.0, 5715.0,

						5483.0, 5568.0, 5514.0, 5363.0, 5314.0, 5441.0, 5692.0, 5479.0, 5349.0, 5716.0, 5659.0, 5521.0, 5353.0, 5260.0, 5296.0, 5340.0, 5469.0, 5323.0, 5558.0, 5497.0, 5384.0, 5658.0, 5602.0, 5445.0, 5444.0, 5634.0, 5328.0, 5299.0, 5486.0, 5665.0
10	5510	9	1	333	1	5553.0, 5712.0, 5690.0, 5408.0, 5335.0, 5382.0, 5633.0, 5406.0, 5592.0, 5374.0, 5383.0, 5300.0, 5427.0, 5545.0, 5338.0, 5595.0, 5501.0, 5460.0, 5412.0, 5366.0, 5313.0, 5646.0, 5645.0, 5379.0, 5295.0, 5433.0, 5463.0, 5257.0, 5428.0, 5486.0, 5513.0, 5672.0, 5660.0, 5528.0, 5358.0, 5398.0, 5583.0, 5319.0, 5649.0, 5327.0, 5329.0, 5437.0, 5441.0, 5478.0, 5344.0, 5569.0, 5593.0, 5581.0, 5348.0, 5316.0, 5312.0, 5457.0, 5625.0, 5471.0, 5420.0, 5391.0, 5265.0, 5641.0, 5654.0, 5482.0, 5720.0, 5596.0, 5339.0, 5526.0, 5556.0, 5693.0, 5336.0, 5680.0, 5451.0, 5303.0, 5474.0, 5661.0, 5659.0, 5434.0, 5459.0, 5493.0, 5314.0, 5675.0, 5318.0, 5514.0, 5540.0, 5679.0, 5354.0, 5547.0, 5432.0, 5261.0, 5531.0, 5676.0, 5687.0, 5456.0, 5396.0, 5611.0, 5473.0, 5349.0, 5274.0, 5552.0, 5719.0, 5708.0, 5588.0, 5558.0
11	5510	9	1	333	1	5652.0, 5710.0, 5294.0, 5482.0, 5372.0, 5536.0, 5273.0, 5275.0, 5531.0, 5421.0, 5685.0, 5699.0, 5556.0, 5324.0, 5308.0, 5523.0, 5382.0, 5545.0, 5409.0, 5611.0, 5687.0, 5328.0, 5594.0, 5321.0, 5659.0, 5481.0, 5452.0, 5708.0, 5352.0, 5607.0, 5353.0, 5331.0, 5502.0, 5339.0, 5429.0, 5602.0, 5565.0, 5260.0, 5478.0, 5476.0, 5655.0, 5505.0, 5521.0, 5559.0, 5457.0, 5642.0, 5616.0, 5628.0, 5539.0, 5715.0, 5271.0, 5717.0, 5673.0, 5599.0, 5410.0, 5622.0, 5498.0, 5720.0, 5442.0, 5445.0, 5491.0, 5411.0, 5665.0, 5387.0, 5435.0, 5261.0, 5712.0, 5625.0, 5484.0, 5672.0, 5412.0, 5350.0, 5662.0, 5258.0, 5644.0, 5677.0, 5574.0, 5304.0, 5460.0, 5255.0, 5436.0, 5691.0, 5455.0, 5682.0, 5272.0, 5621.0, 5276.0, 5588.0, 5286.0, 5420.0, 5582.0, 5721.0, 5456.0, 5603.0, 5566.0, 5573.0, 5290.0, 5546.0, 5447.0, 5509.0
12	5510	9	1	333	1	5664.0, 5685.0, 5520.0, 5352.0, 5377.0, 5336.0, 5551.0, 5442.0, 5356.0, 5253.0, 5318.0, 5293.0, 5633.0, 5266.0, 5375.0, 5500.0, 5582.0, 5590.0, 5549.0, 5713.0, 5298.0, 5674.0, 5251.0, 5348.0, 5291.0, 5283.0, 5602.0, 5347.0, 5688.0, 5530.0, 5399.0, 5570.0, 5374.0, 5612.0, 5322.0, 5461.0, 5386.0, 5475.0, 5342.0, 5715.0, 5563.0, 5483.0, 5536.0, 5716.0, 5350.0, 5604.0, 5510.0, 5632.0, 5669.0, 5309.0, 5619.0, 5402.0, 5675.0, 5595.0, 5365.0, 5397.0, 5427.0, 5392.0, 5607.0, 5420.0, 5515.0, 5554.0, 5656.0, 5302.0, 5411.0, 5384.0, 5662.0, 5496.0, 5621.0, 5513.0,

						5665.0, 5695.0, 5503.0, 5552.0, 5316.0, 5369.0, 5355.0, 5460.0, 5327.0, 5303.0, 5378.0, 5383.0, 5557.0, 5505.0, 5426.0, 5413.0, 5407.0, 5678.0, 5580.0, 5638.0, 5644.0, 5310.0, 5531.0, 5610.0, 5474.0, 5268.0, 5484.0, 5640.0, 5614.0, 5464.0
13	5510	9	1	333	1	5682.0, 5253.0, 5472.0, 5662.0, 5310.0, 5280.0, 5392.0, 5384.0, 5328.0, 5538.0, 5581.0, 5443.0, 5655.0, 5305.0, 5497.0, 5271.0, 5376.0, 5589.0, 5719.0, 5451.0, 5605.0, 5429.0, 5517.0, 5345.0, 5320.0, 5486.0, 5688.0, 5379.0, 5340.0, 5311.0, 5560.0, 5316.0, 5599.0, 5713.0, 5266.0, 5269.0, 5510.0, 5586.0, 5612.0, 5343.0, 5450.0, 5576.0, 5268.0, 5563.0, 5558.0, 5691.0, 5495.0, 5359.0, 5656.0, 5482.0, 5524.0, 5626.0, 5535.0, 5649.0, 5676.0, 5526.0, 5553.0, 5304.0, 5614.0, 5702.0, 5597.0, 5471.0, 5468.0, 5306.0, 5545.0, 5455.0, 5500.0, 5575.0, 5464.0, 5506.0, 5397.0, 5530.0, 5652.0, 5635.0, 5543.0, 5493.0, 5342.0, 5634.0, 5511.0, 5416.0, 5540.0, 5264.0, 5667.0, 5338.0, 5654.0, 5433.0, 5692.0, 5496.0, 5459.0, 5387.0, 5324.0, 5474.0, 5426.0, 5437.0, 5571.0, 5285.0, 5278.0, 5696.0, 5607.0, 5382.0
14	5510	9	1	333	1	5491.0, 5439.0, 5284.0, 5582.0, 5548.0, 5497.0, 5492.0, 5309.0, 5541.0, 5589.0, 5722.0, 5688.0, 5523.0, 5441.0, 5717.0, 5621.0, 5344.0, 5663.0, 5674.0, 5382.0, 5432.0, 5563.0, 5587.0, 5379.0, 5318.0, 5316.0, 5442.0, 5446.0, 5335.0, 5702.0, 5693.0, 5593.0, 5597.0, 5448.0, 5535.0, 5273.0, 5521.0, 5327.0, 5620.0, 5659.0, 5455.0, 5388.0, 5664.0, 5607.0, 5695.0, 5285.0, 5662.0, 5411.0, 5254.0, 5539.0, 5654.0, 5463.0, 5417.0, 5712.0, 5370.0, 5559.0, 5386.0, 5652.0, 5504.0, 5269.0, 5676.0, 5343.0, 5401.0, 5322.0, 5675.0, 5485.0, 5514.0, 5296.0, 5261.0, 5291.0, 5331.0, 5313.0, 5268.0, 5295.0, 5490.0, 5396.0, 5406.0, 5430.0, 5435.0, 5509.0, 5657.0, 5613.0, 5532.0, 5696.0, 5543.0, 5502.0, 5623.0, 5409.0, 5315.0, 5351.0, 5465.0, 5562.0, 5705.0, 5668.0, 5719.0, 5608.0, 5709.0, 5706.0, 5596.0, 5340.0
15	5510	9	1	333	1	5301.0, 5263.0, 5366.0, 5431.0, 5393.0, 5601.0, 5372.0, 5571.0, 5292.0, 5562.0, 5289.0, 5295.0, 5268.0, 5344.0, 5409.0, 5485.0, 5320.0, 5574.0, 5481.0, 5659.0, 5469.0, 5364.0, 5402.0, 5717.0, 5470.0, 5395.0, 5427.0, 5647.0, 5594.0, 5628.0, 5288.0, 5299.0, 5448.0, 5267.0, 5259.0, 5329.0, 5394.0, 5303.0, 5265.0, 5271.0, 5451.0, 5693.0, 5487.0, 5681.0, 5326.0, 5269.0, 5618.0, 5502.0, 5682.0, 5638.0, 5660.0, 5708.0, 5392.0, 5298.0, 5339.0, 5341.0, 5369.0, 5639.0, 5620.0, 5489.0, 5705.0, 5296.0, 5449.0, 5610.0, 5325.0, 5515.0, 5495.0, 5581.0, 5282.0, 5545.0,

						5422.0, 5710.0, 5286.0, 5546.0, 5585.0, 5254.0, 5613.0, 5445.0, 5561.0, 5672.0, 5430.0, 5646.0, 5284.0, 5439.0, 5370.0, 5277.0, 5675.0, 5597.0, 5514.0, 5376.0, 5310.0, 5559.0, 5306.0, 5420.0, 5506.0, 5678.0, 5389.0, 5551.0, 5536.0, 5478.0
16	5510	9	1	333	1	5394.0, 5650.0, 5331.0, 5567.0, 5421.0, 5562.0, 5711.0, 5483.0, 5463.0, 5322.0, 5455.0, 5253.0, 5596.0, 5407.0, 5532.0, 5308.0, 5429.0, 5680.0, 5597.0, 5399.0, 5273.0, 5430.0, 5545.0, 5707.0, 5576.0, 5709.0, 5607.0, 5700.0, 5538.0, 5578.0, 5321.0, 5355.0, 5359.0, 5511.0, 5302.0, 5292.0, 5490.0, 5494.0, 5639.0, 5471.0, 5464.0, 5566.0, 5379.0, 5438.0, 5470.0, 5652.0, 5514.0, 5615.0, 5313.0, 5293.0, 5312.0, 5633.0, 5561.0, 5311.0, 5428.0, 5443.0, 5497.0, 5475.0, 5604.0, 5694.0, 5310.0, 5472.0, 5371.0, 5260.0, 5385.0, 5361.0, 5405.0, 5630.0, 5305.0, 5683.0, 5662.0, 5558.0, 5335.0, 5325.0, 5571.0, 5423.0, 5266.0, 5389.0, 5356.0, 5398.0, 5287.0, 5706.0, 5684.0, 5408.0, 5658.0, 5373.0, 5346.0, 5675.0, 5510.0, 5467.0, 5568.0, 5489.0, 5480.0, 5685.0, 5487.0, 5627.0, 5705.0, 5656.0, 5396.0, 5318.0
17	5510	9	1	333	1	5628.0, 5493.0, 5434.0, 5343.0, 5545.0, 5403.0, 5436.0, 5673.0, 5567.0, 5287.0, 5622.0, 5714.0, 5354.0, 5523.0, 5323.0, 5496.0, 5444.0, 5349.0, 5396.0, 5448.0, 5500.0, 5704.0, 5440.0, 5333.0, 5398.0, 5348.0, 5370.0, 5550.0, 5299.0, 5561.0, 5461.0, 5592.0, 5468.0, 5253.0, 5695.0, 5596.0, 5661.0, 5558.0, 5678.0, 5666.0, 5713.0, 5467.0, 5341.0, 5691.0, 5389.0, 5430.0, 5669.0, 5406.0, 5575.0, 5477.0, 5710.0, 5530.0, 5328.0, 5438.0, 5557.0, 5485.0, 5703.0, 5521.0, 5683.0, 5609.0, 5716.0, 5606.0, 5336.0, 5553.0, 5497.0, 5303.0, 5394.0, 5593.0, 5664.0, 5656.0, 5512.0, 5442.0, 5563.0, 5454.0, 5604.0, 5419.0, 5488.0, 5369.0, 5313.0, 5353.0, 5671.0, 5540.0, 5639.0, 5584.0, 5587.0, 5478.0, 5334.0, 5301.0, 5720.0, 5432.0, 5387.0, 5359.0, 5292.0, 5647.0, 5721.0, 5415.0, 5677.0, 5565.0, 5568.0, 5329.0
18	5510	9	1	333	1	5529.0, 5532.0, 5642.0, 5305.0, 5597.0, 5674.0, 5478.0, 5410.0, 5425.0, 5251.0, 5311.0, 5497.0, 5662.0, 5650.0, 5672.0, 5721.0, 5418.0, 5392.0, 5500.0, 5563.0, 5611.0, 5621.0, 5619.0, 5287.0, 5484.0, 5301.0, 5630.0, 5346.0, 5432.0, 5283.0, 5488.0, 5498.0, 5466.0, 5550.0, 5253.0, 5307.0, 5605.0, 5583.0, 5360.0, 5403.0, 5390.0, 5424.0, 5534.0, 5614.0, 5268.0, 5464.0, 5352.0, 5393.0, 5584.0, 5681.0, 5401.0, 5693.0, 5516.0, 5275.0, 5330.0, 5417.0, 5289.0, 5394.0, 5412.0, 5282.0, 5509.0, 5571.0, 5535.0, 5310.0, 5685.0, 5276.0, 5353.0, 5477.0, 5505.0, 5675.0,

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19	5510	9	1	333	1	5394.0, 5597.0, 5320.0, 5319.0, 5275.0, 5266.0, 5265.0, 5588.0, 5639.0, 5296.0, 5315.0, 5356.0, 5549.0, 5648.0, 5576.0, 5601.0, 5512.0, 5399.0, 5366.0, 5430.0, 5349.0, 5534.0, 5369.0, 5710.0, 5582.0, 5632.0, 5289.0, 5646.0, 5388.0, 5577.0, 5653.0, 5586.0, 5703.0, 5707.0, 5298.0, 5487.0, 5281.0, 5475.0, 5516.0, 5472.0, 5692.0, 5637.0, 5416.0, 5329.0, 5664.0, 5396.0, 5268.0, 5431.0, 5348.0, 5462.0, 5650.0, 5346.0, 5617.0, 5691.0, 5560.0, 5300.0, 5489.0, 5693.0, 5659.0, 5260.0, 5293.0, 5527.0, 5657.0, 5528.0, 5618.0, 5587.0, 5671.0, 5374.0, 5364.0, 5619.0, 5660.0, 5539.0, 5433.0, 5503.0, 5302.0, 5334.0, 5333.0, 5324.0, 5410.0, 5299.0, 5609.0, 5435.0, 5564.0, 5328.0, 5271.0, 5477.0, 5370.0, 5367.0, 5704.0, 5557.0, 5316.0, 5467.0, 5355.0, 5424.0, 5554.0, 5343.0, 5537.0, 5700.0, 5379.0, 5460.0
20	5510	9	1	333	1	5252.0, 5431.0, 5320.0, 5668.0, 5451.0, 5671.0, 5269.0, 5639.0, 5385.0, 5532.0, 5424.0, 5460.0, 5259.0, 5345.0, 5558.0, 5705.0, 5702.0, 5369.0, 5526.0, 5623.0, 5397.0, 5613.0, 5376.0, 5382.0, 5447.0, 5535.0, 5699.0, 5467.0, 5462.0, 5578.0, 5620.0, 5435.0, 5682.0, 5496.0, 5561.0, 5489.0, 5390.0, 5442.0, 5647.0, 5391.0, 5457.0, 5555.0, 5624.0, 5569.0, 5600.0, 5563.0, 5649.0, 5362.0, 5336.0, 5570.0, 5410.0, 5356.0, 5695.0, 5545.0, 5276.0, 5543.0, 5379.0, 5469.0, 5628.0, 5637.0, 5653.0, 5260.0, 5685.0, 5344.0, 5264.0, 5295.0, 5583.0, 5306.0, 5599.0, 5609.0, 5367.0, 5722.0, 5717.0, 5539.0, 5531.0, 5553.0, 5614.0, 5710.0, 5348.0, 5707.0, 5300.0, 5698.0, 5498.0, 5275.0, 5394.0, 5592.0, 5325.0, 5335.0, 5634.0, 5428.0, 5262.0, 5254.0, 5360.0, 5433.0, 5575.0, 5315.0, 5540.0, 5572.0, 5440.0, 5346.0
21	5510	9	1	333	1	5424.0, 5568.0, 5506.0, 5637.0, 5657.0, 5359.0, 5517.0, 5352.0, 5450.0, 5274.0, 5297.0, 5460.0, 5467.0, 5533.0, 5286.0, 5332.0, 5548.0, 5595.0, 5368.0, 5662.0, 5384.0, 5367.0, 5624.0, 5661.0, 5534.0, 5418.0, 5313.0, 5554.0, 5394.0, 5628.0, 5700.0, 5591.0, 5707.0, 5347.0, 5390.0, 5650.0, 5491.0, 5606.0, 5711.0, 5683.0, 5715.0, 5558.0, 5362.0, 5291.0, 5376.0, 5669.0, 5541.0, 5337.0, 5553.0, 5258.0, 5355.0, 5308.0, 5360.0, 5587.0, 5604.0, 5281.0, 5435.0, 5339.0, 5266.0, 5701.0, 5674.0, 5578.0, 5574.0, 5577.0, 5585.0, 5684.0, 5252.0, 5675.0, 5594.0, 5461.0,

						5644.0, 5547.0, 5250.0, 5570.0, 5306.0, 5564.0, 5665.0, 5407.0, 5681.0, 5522.0, 5259.0, 5498.0, 5672.0, 5613.0, 5489.0, 5601.0, 5278.0, 5696.0, 5417.0, 5704.0, 5456.0, 5721.0, 5488.0, 5537.0, 5663.0, 5397.0, 5605.0, 5388.0, 5256.0, 5379.0
22	5510	9	1	333	1	5541.0, 5466.0, 5494.0, 5629.0, 5558.0, 5699.0, 5305.0, 5510.0, 5428.0, 5318.0, 5679.0, 5380.0, 5371.0, 5451.0, 5644.0, 5375.0, 5403.0, 5473.0, 5600.0, 5625.0, 5293.0, 5387.0, 5680.0, 5620.0, 5348.0, 5673.0, 5442.0, 5548.0, 5346.0, 5384.0, 5287.0, 5700.0, 5624.0, 5295.0, 5405.0, 5641.0, 5296.0, 5453.0, 5355.0, 5469.0, 5492.0, 5707.0, 5263.0, 5486.0, 5390.0, 5692.0, 5667.0, 5503.0, 5623.0, 5275.0, 5308.0, 5681.0, 5441.0, 5268.0, 5495.0, 5688.0, 5650.0, 5706.0, 5465.0, 5656.0, 5560.0, 5682.0, 5467.0, 5583.0, 5359.0, 5723.0, 5581.0, 5523.0, 5309.0, 5395.0, 5363.0, 5316.0, 5422.0, 5326.0, 5582.0, 5710.0, 5394.0, 5499.0, 5551.0, 5666.0, 5614.0, 5638.0, 5586.0, 5724.0, 5669.0, 5333.0, 5566.0, 5413.0, 5716.0, 5587.0, 5455.0, 5615.0, 5689.0, 5572.0, 5606.0, 5322.0, 5712.0, 5589.0, 5444.0, 5609.0
23	5510	9	1	333	1	5411.0, 5518.0, 5519.0, 5590.0, 5524.0, 5370.0, 5652.0, 5562.0, 5551.0, 5531.0, 5598.0, 5568.0, 5445.0, 5410.0, 5628.0, 5419.0, 5334.0, 5536.0, 5625.0, 5664.0, 5543.0, 5630.0, 5458.0, 5487.0, 5503.0, 5397.0, 5269.0, 5326.0, 5480.0, 5436.0, 5720.0, 5627.0, 5440.0, 5288.0, 5714.0, 5689.0, 5317.0, 5533.0, 5275.0, 5287.0, 5640.0, 5544.0, 5717.0, 5622.0, 5483.0, 5716.0, 5453.0, 5398.0, 5427.0, 5710.0, 5511.0, 5573.0, 5327.0, 5576.0, 5455.0, 5343.0, 5521.0, 5584.0, 5722.0, 5286.0, 5374.0, 5432.0, 5539.0, 5471.0, 5587.0, 5559.0, 5597.0, 5274.0, 5384.0, 5340.0, 5698.0, 5636.0, 5422.0, 5723.0, 5354.0, 5595.0, 5653.0, 5515.0, 5707.0, 5632.0, 5460.0, 5464.0, 5647.0, 5512.0, 5267.0, 5582.0, 5674.0, 5344.0, 5549.0, 5333.0, 5378.0, 5606.0, 5537.0, 5591.0, 5507.0, 5605.0, 5371.0, 5522.0, 5612.0, 5337.0
24	5510	9	1	333	1	5698.0, 5518.0, 5293.0, 5253.0, 5346.0, 5630.0, 5648.0, 5390.0, 5252.0, 5547.0, 5723.0, 5404.0, 5582.0, 5486.0, 5546.0, 5649.0, 5575.0, 5509.0, 5364.0, 5382.0, 5700.0, 5411.0, 5707.0, 5636.0, 5631.0, 5279.0, 5464.0, 5473.0, 5714.0, 5676.0, 5685.0, 5276.0, 5579.0, 5673.0, 5429.0, 5435.0, 5664.0, 5657.0, 5581.0, 5706.0, 5542.0, 5669.0, 5449.0, 5506.0, 5552.0, 5634.0, 5341.0, 5689.0, 5365.0, 5667.0, 5345.0, 5405.0, 5381.0, 5383.0, 5461.0, 5292.0, 5550.0, 5281.0, 5516.0, 5724.0, 5460.0, 5622.0, 5489.0, 5254.0, 5393.0, 5498.0, 5480.0, 5351.0, 5658.0, 5705.0,

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25	5510	9	1	333	1	5653.0, 5621.0, 5521.0, 5390.0, 5616.0, 5490.0, 5262.0, 5363.0, 5408.0, 5436.0, 5489.0, 5261.0, 5557.0, 5267.0, 5462.0, 5448.0, 5626.0, 5425.0, 5334.0, 5495.0, 5470.0, 5468.0, 5498.0, 5449.0, 5669.0, 5560.0, 5613.0, 5678.0, 5328.0, 5656.0, 5348.0, 5361.0, 5370.0, 5519.0, 5704.0, 5683.0, 5517.0, 5317.0, 5674.0, 5712.0, 5661.0, 5585.0, 5710.0, 5671.0, 5398.0, 5269.0, 5303.0, 5434.0, 5415.0, 5460.0, 5351.0, 5532.0, 5285.0, 5316.0, 5336.0, 5633.0, 5446.0, 5374.0, 5376.0, 5292.0, 5552.0, 5395.0, 5721.0, 5681.0, 5623.0, 5423.0, 5366.0, 5343.0, 5300.0, 5579.0, 5595.0, 5438.0, 5682.0, 5501.0, 5542.0, 5414.0, 5402.0, 5319.0, 5718.0, 5502.0, 5310.0, 5628.0, 5273.0, 5492.0, 5592.0, 5368.0, 5326.0, 5539.0, 5437.0, 5457.0, 5259.0, 5288.0, 5339.0, 5384.0, 5505.0, 5289.0, 5458.0, 5659.0, 5503.0, 5282.0
26	5510	9	1	333	1	5313.0, 5586.0, 5689.0, 5320.0, 5407.0, 5564.0, 5285.0, 5513.0, 5430.0, 5429.0, 5264.0, 5442.0, 5476.0, 5719.0, 5629.0, 5469.0, 5643.0, 5370.0, 5354.0, 5682.0, 5520.0, 5316.0, 5487.0, 5360.0, 5466.0, 5628.0, 5712.0, 5473.0, 5619.0, 5646.0, 5606.0, 5309.0, 5379.0, 5536.0, 5284.0, 5437.0, 5421.0, 5315.0, 5358.0, 5254.0, 5318.0, 5626.0, 5355.0, 5302.0, 5676.0, 5314.0, 5336.0, 5634.0, 5347.0, 5321.0, 5274.0, 5386.0, 5574.0, 5527.0, 5457.0, 5369.0, 5431.0, 5695.0, 5357.0, 5365.0, 5529.0, 5458.0, 5620.0, 5266.0, 5322.0, 5451.0, 5475.0, 5382.0, 5655.0, 5571.0, 5585.0, 5709.0, 5463.0, 5541.0, 5478.0, 5426.0, 5359.0, 5323.0, 5413.0, 5494.0, 5516.0, 5337.0, 5488.0, 5528.0, 5545.0, 5562.0, 5373.0, 5433.0, 5464.0, 5307.0, 5474.0, 5327.0, 5718.0, 5280.0, 5507.0, 5260.0, 5514.0, 5596.0, 5613.0, 5667.0
27	5510	9	1	333	1	5582.0, 5611.0, 5470.0, 5396.0, 5410.0, 5522.0, 5646.0, 5609.0, 5355.0, 5591.0, 5466.0, 5607.0, 5636.0, 5316.0, 5644.0, 5402.0, 5464.0, 5685.0, 5314.0, 5568.0, 5625.0, 5394.0, 5368.0, 5658.0, 5317.0, 5562.0, 5626.0, 5703.0, 5696.0, 5532.0, 5268.0, 5347.0, 5595.0, 5697.0, 5294.0, 5652.0, 5561.0, 5552.0, 5389.0, 5587.0, 5311.0, 5505.0, 5630.0, 5565.0, 5651.0, 5584.0, 5430.0, 5437.0, 5542.0, 5442.0, 5440.0, 5514.0, 5662.0, 5279.0, 5280.0, 5461.0, 5699.0, 5492.0, 5287.0, 5677.0, 5520.0, 5256.0, 5411.0, 5260.0, 5635.0, 5608.0, 5632.0, 5548.0, 5447.0, 5356.0,

						5291.0, 5255.0, 5668.0, 5716.0, 5629.0, 5299.0, 5718.0, 5401.0, 5497.0, 5695.0, 5353.0, 5673.0, 5650.0, 5386.0, 5428.0, 5700.0, 5467.0, 5556.0, 5564.0, 5583.0, 5387.0, 5330.0, 5612.0, 5397.0, 5436.0, 5507.0, 5326.0, 5654.0, 5486.0, 5375.0
28	5510	9	1	333	1	5517.0, 5289.0, 5349.0, 5350.0, 5476.0, 5568.0, 5262.0, 5474.0, 5317.0, 5400.0, 5307.0, 5627.0, 5427.0, 5626.0, 5280.0, 5342.0, 5687.0, 5386.0, 5325.0, 5553.0, 5313.0, 5592.0, 5348.0, 5615.0, 5472.0, 5356.0, 5659.0, 5685.0, 5584.0, 5631.0, 5717.0, 5383.0, 5486.0, 5452.0, 5329.0, 5384.0, 5525.0, 5447.0, 5255.0, 5396.0, 5431.0, 5602.0, 5701.0, 5303.0, 5258.0, 5593.0, 5622.0, 5686.0, 5479.0, 5630.0, 5535.0, 5654.0, 5421.0, 5600.0, 5417.0, 5468.0, 5638.0, 5555.0, 5605.0, 5433.0, 5636.0, 5483.0, 5620.0, 5533.0, 5380.0, 5715.0, 5302.0, 5316.0, 5551.0, 5670.0, 5499.0, 5311.0, 5268.0, 5423.0, 5300.0, 5567.0, 5628.0, 5503.0, 5608.0, 5293.0, 5559.0, 5552.0, 5587.0, 5616.0, 5263.0, 5352.0, 5451.0, 5643.0, 5286.0, 5516.0, 5538.0, 5565.0, 5719.0, 5359.0, 5326.0, 5668.0, 5495.0, 5554.0, 5528.0, 5678.0
29	5510	9	1	333	1	5437.0, 5267.0, 5591.0, 5621.0, 5381.0, 5465.0, 5615.0, 5714.0, 5518.0, 5401.0, 5455.0, 5551.0, 5642.0, 5681.0, 5576.0, 5505.0, 5587.0, 5604.0, 5613.0, 5558.0, 5414.0, 5299.0, 5716.0, 5467.0, 5685.0, 5333.0, 5380.0, 5328.0, 5665.0, 5335.0, 5567.0, 5566.0, 5391.0, 5369.0, 5476.0, 5289.0, 5674.0, 5343.0, 5386.0, 5596.0, 5261.0, 5250.0, 5492.0, 5579.0, 5376.0, 5394.0, 5344.0, 5668.0, 5582.0, 5367.0, 5692.0, 5533.0, 5435.0, 5671.0, 5274.0, 5598.0, 5494.0, 5543.0, 5575.0, 5581.0, 5366.0, 5635.0, 5540.0, 5432.0, 5627.0, 5368.0, 5348.0, 5708.0, 5326.0, 5514.0, 5546.0, 5661.0, 5513.0, 5416.0, 5535.0, 5378.0, 5585.0, 5268.0, 5586.0, 5254.0, 5462.0, 5569.0, 5521.0, 5472.0, 5511.0, 5568.0, 5393.0, 5658.0, 5503.0, 5555.0, 5477.0, 5320.0, 5607.0, 5638.0, 5278.0, 5259.0, 5474.0, 5686.0, 5691.0, 5525.0
30	5510	9	1	333	1	5355.0, 5273.0, 5562.0, 5529.0, 5271.0, 5311.0, 5718.0, 5318.0, 5667.0, 5296.0, 5589.0, 5520.0, 5465.0, 5329.0, 5533.0, 5381.0, 5484.0, 5564.0, 5325.0, 5594.0, 5389.0, 5299.0, 5416.0, 5688.0, 5442.0, 5550.0, 5628.0, 5263.0, 5309.0, 5588.0, 5290.0, 5332.0, 5424.0, 5321.0, 5463.0, 5553.0, 5685.0, 5274.0, 5293.0, 5706.0, 5446.0, 5475.0, 5521.0, 5647.0, 5301.0, 5489.0, 5413.0, 5664.0, 5714.0, 5724.0, 5701.0, 5459.0, 5469.0, 5530.0, 5464.0, 5350.0, 5621.0, 5634.0, 5577.0, 5492.0, 5576.0, 5486.0, 5372.0, 5441.0, 5508.0, 5482.0, 5412.0, 5653.0, 5556.0, 5398.0,

						5631.0, 5630.0, 5627.0, 5623.0, 5382.0, 5641.0, 5673.0, 5586.0, 5635.0, 5503.0, 5597.0, 5513.0, 5255.0, 5722.0, 5375.0, 5420.0, 5658.0, 5560.0, 5333.0, 5569.0, 5608.0, 5295.0, 5417.0, 5415.0, 5543.0, 5689.0, 5472.0, 5403.0, 5253.0, 5719.0

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	76	1	698	1
2	5530	72	1	738	1
3	5530	83	1	638	1
4	5530	86	1	618	1
5	5530	61	1	878	1
6	5530	78	1	678	1
7	5530	68	1	778	1
8	5530	92	1	578	1
9	5530	99	1	538	1
10	5530	59	1	898	1
11	5530	62	1	858	1
12	5530	18	1	3066	1
13	5530	65	1	818	1
14	5530	95	1	558	1
15	5530	74	1	718	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	39	1	1356	1
2	5530	36	1	1469	1
3	5530	27	1	1988	1
4	5530	73	1	732	1
5	5530	98	1	541	1
6	5530	24	1	2218	1
7	5530	23	1	2394	1
8	5530	22	1	2426	1
9	5530	19	1	2902	1
10	5530	31	1	1704	1
11	5530	25	1	2183	1
12	5530	29	1	1857	1
13	5530	49	1	1081	1
14	5530	18	1	2992	1
15	5530	31	1	1720	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	26	3.7	157	1
2	5530	26	1.2	193	1
3	5530	28	4.5	152	1
4	5530	25	2.4	218	1
5	5530	23	4.5	219	1
6	5530	26	2	164	1
7	5530	23	1.3	194	1
8	5530	28	3.4	155	1
9	5530	28	1	185	1
10	5530	23	1.9	203	1
11	5530	27	2.9	207	1
12	5530	29	4.8	222	1
13	5530	28	1.1	173	1
14	5530	23	3.4	170	1
15	5530	29	5	189	1
16	5530	27	2.8	227	1
17	5530	27	4.6	168	1
18	5530	24	1.7	223	1
19	5530	24	3.2	157	1
20	5530	26	2.3	200	1
21	5530	28	3.2	187	1
22	5530	29	2.7	185	1
23	5530	28	3.7	204	1
24	5530	24	2.5	187	1
25	5530	28	2	216	1
26	5530	24	3.3	227	1
27	5530	26	1.5	206	1
28	5530	26	4.1	223	1
29	5530	27	1.5	224	1
30	5530	28	3.9	209	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	16	8	306	1
2	5530	16	9.7	354	1
3	5530	18	9.9	470	1
4	5530	18	7.7	353	1
5	5530	17	9.1	201	1
6	5530	16	8.9	392	1
7	5530	17	8	433	1
8	5530	17	8.6	216	1
9	5530	17	7.3	343	1
10	5530	16	8.4	443	1
11	5530	18	6.1	428	1
12	5530	16	8.6	351	1
13	5530	18	7.1	219	1
14	5530	17	9.1	288	1
15	5530	17	7.1	271	1
16	5530	17	7.6	456	1
17	5530	17	7.7	356	1
18	5530	17	9.8	420	1
19	5530	17	6.3	238	1
20	5530	17	7.3	484	1
21	5530	17	9.1	305	1
22	5530	16	6.8	247	1
23	5530	16	9	387	1
24	5530	18	7	336	1
25	5530	17	7.4	202	1
26	5530	16	8.2	307	1
27	5530	18	6.4	332	1
28	5530	16	7.4	282	1
29	5530	18	8.6	417	1
30	5530	17	9.4	450	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	14	13.5	396	1
2	5530	13	14.4	353	1
3	5530	14	18.7	288	1
4	5530	15	14.6	461	1
5	5530	13	16.7	225	1
6	5530	16	12.4	367	1
7	5530	15	12.9	367	1
8	5530	12	11.4	477	1
9	5530	12	18.7	364	1
10	5530	16	13.4	216	1
11	5530	16	13.4	271	1
12	5530	12	15.1	474	1
13	5530	13	19.7	220	1
14	5530	13	16.8	219	1
15	5530	12	17.9	271	1
16	5530	14	16.4	386	1
17	5530	16	15.5	213	1
18	5530	13	14.8	215	1
19	5530	13	17.8	400	1
20	5530	14	12.5	471	1
21	5530	13	13.9	262	1
22	5530	15	16	425	1
23	5530	16	16.6	320	1
24	5530	16	19.6	214	1
25	5530	15	13.7	387	1
26	5530	12	14.9	487	1
27	5530	16	18.4	484	1
28	5530	16	12.8	218	1
29	5530	15	20	381	1
30	5530	14	15.1	300	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	2	11	51.2	1397	/	0.157899	1
1	2	11	62	1280	/	0.681325	
2	2	11	91.4	1771	/	1.697368	
3	2	11	73.3	1710	/	2.173733	
4	1	11	82.5	/	/	2.86719	
5	2	11	94.9	1623	/	3.763361	
6	2	11	82.7	1332	/	4.629814	
7	2	11	87.2	1902	/	4.913964	
8	1	11	52.3	/	/	5.956116	
9	2	11	60.3	1278	/	6.638135	
10	2	11	97.9	1168	/	7.233785	
11	1	11	77.1	/	/	7.705999	
12	3	11	67.4	1703	1868	8.489181	
13	2	11	55.4	1087	/	9.123659	
14	3	11	78.1	1156	1746	9.641655	
15	3	11	55.4	1300	1616	10.29872	
16	2	11	92.7	1083	/	11.04095	
17	1	11	59	/	/	11.57052	

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	2	6	97.1	1357	/	0.67815	1
1	3	6	87.7	1548	1314	0.753348	
2	1	6	86.2	/	/	1.763133	
3	1	6	66.2	/	/	2.35474	
4	2	6	57.7	1256	/	3.043321	
5	3	6	81.1	1552	1342	3.544097	
6	1	6	53.9	/	/	4.350284	
7	1	6	94.1	/	/	5.568192	
8	2	6	81.2	1159	/	6.0929	
9	1	6	99.2	/	/	6.361835	
10	1	6	78.7	/	/	7.403825	
11	1	6	66.8	/	/	8.30374	
12	2	6	85.7	1336	/	8.737011	
13	2	6	92.3	1591	/	9.405227	
14	2	6	91.8	1216	/	10.46126	
15	1	6	82	/	/	11.26686	
16	2	6	62.7	1329	/	11.8173	

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	2	10	84.9	1976	/	0.833745	1
1	3	10	84.1	1154	1149	1.617949	
2	2	10	52.9	1510	/	2.847551	
3	1	10	82.6	/	/	3.272023	
4	3	10	54.8	1474	1106	4.912563	
5	1	10	94.1	/	/	5.764074	
6	2	10	56.4	1493	/	6.954335	
7	2	10	59.8	1901	/	7.687721	
8	3	10	77.4	1877	1513	8.04634	
9	2	10	69.6	1966	/	9.057312	
10	2	10	79.9	1755	/	10.6978	
11	2	10	97.5	1082	/	11.87131	

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	2	15	96.5	1277	/	0.164915	1
1	1	15	80.4	/	/	1.244701	
2	2	15	57.3	1619	/	1.88061	
3	3	15	87.4	1196	1194	2.361734	
4	1	15	60	/	/	3.018676	
5	3	15	96	1845	1293	3.182016	
6	2	15	74.4	1912	/	4.28505	
7	1	15	94.2	/	/	4.434119	
8	2	15	51.7	1040	/	5.15617	
9	2	15	60.4	1011	/	5.900034	
10	1	15	50.6	/	/	6.693394	
11	3	15	64.7	1763	1855	7.379118	
12	2	15	62.3	1310	/	8.110418	
13	1	15	59.4	/	/	8.648473	
14	2	15	69.6	1086	/	9.291097	
15	2	15	68.5	1451	/	9.649034	
16	3	15	92.5	1794	1501	10.26566	
17	3	15	87.4	1928	1892	11.19841	
18	2	15	95.1	1654	/	11.85895	

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	6	99.8	1460	/	0.314399	1
1	2	6	77.4	1572	/	1.243152	
2	2	6	50.3	1059	/	2.067958	
3	2	6	75.3	1085	/	3.169596	
4	2	6	74.7	1728	/	4.508227	
5	2	6	55.7	1204	/	5.197153	
6	2	6	89.1	1762	/	6.755411	
7	2	6	85.7	1261	/	7.294297	
8	2	6	88.6	1344	/	8.951424	
9	3	6	90.5	1226	1920	9.97873	
10	2	6	53.6	1854	/	10.53398	
11	2	6	54.8	1143	/	11.51921	

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	2	13	51.2	1515	/	0.555337	1
1	1	13	78.5	/	/	0.836248	
2	3	13	56.9	1447	1291	1.689464	
3	2	13	84.9	1218	/	2.506631	
4	1	13	96.3	/	/	3.101384	
5	1	13	65.7	/	/	3.382254	
6	2	13	51	1899	/	4.176259	
7	2	13	57.4	1744	/	4.767926	
8	2	13	92.7	1755	/	5.391399	
9	1	13	92.8	/	/	6.060402	
10	1	13	85.9	/	/	6.927225	
11	2	13	63.3	1767	/	7.344201	
12	1	13	81.8	/	/	8.428056	
13	2	13	62	1974	/	8.673857	
14	1	13	77.7	/	/	9.659801	
15	3	13	76.2	1938	1825	10.12334	
16	1	13	80.4	/	/	11.11037	
17	2	13	56.8	1342	/	11.70724	

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	2	10	59.2	1782	/	1.166509	1
1	3	10	95.9	1454	1617	1.831216	
2	1	10	65.8		/	2.668662	
3	2	10	100	1801	/	4.896085	
4	2	10	55	1803	/	6.586296	
5	3	10	61.9	1898	1534	7.704503	
6	2	10	94.5	1222	/	8.492375	
7	2	10	95.3	1595	/	9.727327	
8	3	10	53.5	1886	1423	11.37198	

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	15	59.4	1427	/	0.45757	1
1	3	15	73.4	1751	1029	2.035592	
2	2	15	74.2	1212	/	2.616804	
3	2	15	72.2	1622	/	3.859515	
4	1	15	86.4	/	/	5.960008	
5	3	15	98.4	1051	1552	6.107248	
6	2	15	97.7	1364	/	8.249004	
7	2	15	73.8	1274	/	9.216495	
8	3	15	52.2	1649	1783	10.43536	
9	2	15	61.8	1814	/	10.94989	

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	13	92.2	1106	/	1.033047	1
1	1	13	84.3	/	/	1.994911	
2	3	13	74.3	1999	1160	3.529039	
3	3	13	91.5	1896	1760	4.334647	
4	2	13	98.2	1915	/	5.349379	
5	3	13	81.5	1547	1705	6.207525	
6	2	13	86.5	1606	/	7.482981	
7	1	13	88.8	/	/	8.862784	
8	1	13	76.9	/	/	10.25309	
9	2	13	51.6	1381	/	11.15201	

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	1	15	82.3	/	/	0.26463	1
1	2	15	54.2	1409	/	1.27713	
2	2	15	90	1534	/	1.578317	
3	2	15	52.5	1842	/	2.165715	
4	2	15	81.8	1272	/	2.698256	
5	2	15	75.5	1941	/	3.918932	
6	1	15	71.3	/	/	4.203174	
7	2	15	59.6	1453	/	4.947888	
8	1	15	68.4	/	/	5.734295	
9	2	15	77	1694	/	6.208772	
10	3	15	60.3	1129	1795	7.019522	
11	2	15	93.2	1006	/	7.685317	
12	1	15	57.2	/	/	8.196468	
13	2	15	97.5	1613	/	9.05976	
14	2	15	78.6	1722	/	9.706217	
15	2	15	85	1157	/	10.00424	
16	2	15	53.4	1023	/	11.08546	
17	1	15	72.1	/	/	11.78017	

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	5	52.8	1603	1967	0.043915	1
1	2	5	57.7	1801	/	1.729804	
2	1	5	67.2	/	/	2.399269	
3	1	5	97.7	/	/	3.703038	
4	2	5	92.1	1250	/	4.041086	
5	2	5	74.7	1993	/	5.074204	
6	2	5	66.5	1759	/	6.729879	
7	2	5	91.7	1070	/	7.328807	
8	3	5	96	1585	1723	8.101228	
9	1	5	72	/	/	9.273056	
10	3	5	73.3	1139	1714	10.36687	
11	3	5	56.3	1590	1362	11.52584	

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	2	12	93.3	1951	/	0.570081	1
1	2	12	93.3	1442	/	0.918888	
2	1	12	64	/	/	1.696847	
3	2	12	86.4	1483	/	2.297595	
4	2	12	58.6	1106	/	3.361129	
5	3	12	89.4	1165	1881	4.089794	
6	3	12	52.1	1372	1909	4.783919	
7	3	12	68.1	1788	1532	5.261342	
8	3	12	78.4	1462	1131	6.248536	
9	1	12	54.5	/	/	6.695948	
10	1	12	51	/	/	7.704979	
11	2	12	94.5	1846	/	7.815328	
12	2	12	59.2	1851	/	8.866389	
13	3	12	69.1	1385	1131	9.317405	
14	2	12	56.6	1322	/	10.39466	
15	1	12	80.7	/	/	10.97785	
16	3	12	91.2	1829	1708	11.75406	

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	3	13	92.6	1332	1216	1.042267	
1	2	13	79.2	1205	/	1.934525	
2	1	13	53.8	/	/	2.785068	
3	2	13	80.9	1285	/	4.292018	
4	3	13	82.4	1424	1607	4.832583	
5	2	13	65	1619	/	6.134284	1
6	2	13	84.5	1485	/	7.046018	
7	3	13	89.3	1033	1749	7.917474	
8	2	13	74.4	1529	/	9.438298	
9	1	13	91.7	/	/	10.65993	
10	2	13	63.2	1364	/	11.7205	

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	16	75.8	1811	1813	0.485445	
1	3	16	78	1828	1377	0.850865	
2	3	16	80.6	1541	1565	1.78839	
3	2	16	91.8	1737	/	3.153265	
4	2	16	69.3	1614	/	3.34467	
5	2	16	74.2	1486	/	4.533191	
6	2	16	94.3	1387	/	5.040791	
7	2	16	58.8	1461	/	5.966213	1
8	1	16	74.3	/	/	6.626917	
9	2	16	84.7	1599	/	7.946826	
10	2	16	94.1	1659	/	8.179941	
11	2	16	60.4	1481	/	9.577278	
12	2	16	95.4	1061	/	9.704549	
13	3	16	98.5	1142	1084	10.74789	
14	3	16	77.4	1910	1598	11.28452	

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	3	12	88.8	1238	1032	0.610135	1
1	3	12	87	1589	1041	1.168539	
2	3	12	65.3	1216	1598	2.001541	
3	3	12	67.6	1216	1437	2.833082	
4	3	12	64.5	1585	1408	4.032308	
5	2	12	84.4	1767	/	4.313012	
6	1	12	97.4	/	/	5.581875	
7	1	12	95.6	/	/	6.416818	
8	3	12	76	1022	1719	7.130315	
9	2	12	78.8	1662	/	8.090234	
10	2	12	98.9	1758	/	9.409136	
11	1	12	90.9	/	/	10.15498	
12	3	12	88.3	1514	1392	10.87599	
13	3	12	79.3	1573	1643	11.82532	

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	1	13	95.8	/	/	0.309968	1
1	2	13	95.2	1840	/	1.673687	
2	2	13	75.8	1573	/	2.109593	
3	2	13	77.8	1550	/	2.89582	
4	3	13	90.5	1870	1778	4.21871	
5	2	13	89.7	1974	/	5.118559	
6	2	13	75.6	1710	/	5.223484	
7	2	13	94.7	1644	/	6.789411	
8	2	13	85.3	1870	/	6.90576	
9	3	13	60	1383	1678	8.514698	
10	2	13	92.4	1648	/	8.836864	
11	1	13	87	/	/	9.729325	
12	1	13	75.8	/	/	10.57167	
13	3	13	83.7	1499	1193	11.90432	

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	64.7	1140	/	0.006971	
1	3	7	94	1366	1132	0.961573	
2	1	7	90.2	/	/	1.350807	
3	1	7	94.5	/	/	1.913936	
4	2	7	53.4	1432	/	2.775032	
5	3	7	97.4	1100	1189	3.71893	
6	3	7	89.6	1407	1098	4.076895	
7	3	7	59.6	1683	1515	4.673646	
8	1	7	51	/	/	5.373528	
9	2	7	92.9	1274	/	5.70222	1
10	2	7	91.1	1859	/	6.747948	
11	2	7	75.6	1482	/	7.286264	
12	3	7	87.6	1314	1915	7.984825	
13	3	7	65.1	1032	1333	8.554851	
14	2	7	51.8	1880	/	9.414394	
15	1	7	55.4	/	/	10.00917	
16	2	7	98	1951	/	10.62572	
17	2	7	90.8	1829	/	11.32387	
18	1	7	75	/	/	11.88341	

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	14	61.9	/	/	0.553528	
1	2	14	75.1	1410	/	0.998542	
2	2	14	82.3	1335	/	1.735611	
3	2	14	91.4	1075	/	2.112013	
4	3	14	98	1544	1504	2.71475	
5	2	14	98.6	1773	/	3.601837	
6	2	14	57.1	1561	/	4.351929	
7	1	14	61.7	/	/	4.935668	
8	3	14	65.8	1810	1929	5.551054	
9	3	14	94.8	1847	1937	5.851437	1
10	3	14	80.1	1152	1785	6.642401	
11	2	14	56.7	1055	/	7.084207	
12	3	14	63.4	1043	1385	7.808783	
13	3	14	77	1573	1397	8.746097	
14	2	14	68.2	1350	/	9.009151	
15	3	14	90.7	1549	1465	10.04898	
16	2	14	54.7	1471	/	10.58884	
17	3	14	84.8	1333	1562	11.13938	
18	2	14	65.2	1136	/	11.81753	

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	18	93.9	1201	/	0.688806	1
1	1	18	71.9	/	/	1.159158	
2	2	18	94.3	1780	/	2.036595	
3	3	18	73.1	1707	1998	3.215624	
4	1	18	84.3	/	/	3.829956	
5	2	18	65.7	1879	/	4.375448	
6	1	18	59.4	/	/	5.48313	
7	1	18	90.2	/	/	6.319136	
8	1	18	53.5	/	/	7.283823	
9	2	18	56.7	1187	/	8.370492	
10	1	18	90.2	/	/	8.966581	
11	2	18	69.1	1915	/	9.440069	
12	3	18	75.9	1729	1424	10.50937	
13	1	18	63	/	/	11.61963	

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	19	70.8	/	/	0.738234	1
1	3	19	68.1	1390	1230	1.599825	
2	2	19	65	1285	/	3.28755	
3	2	19	82.9	1353	/	4.37383	
4	3	19	67.4	1259	1341	5.863445	
5	2	19	89.2	1037	/	7.376819	
6	2	19	84.7	1074	/	9.205926	
7	2	19	60	1399	/	9.451496	
8	3	19	52	1777	1885	11.32919	

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	3	7	84	1450	1159	0.109263	1
1	3	7	63.8	1307	1584	0.780452	
2	3	7	54.6	1941	1014	1.287135	
3	3	7	91.4	1294	1182	2.18412	
4	3	7	67.7	1502	1995	2.615941	
5	2	7	50.2	1752	/	3.258949	
6	2	7	54.2	1961	/	3.94784	
7	1	7	87	/	/	4.68735	
8	3	7	94.5	1975	1856	4.888583	
9	3	7	93.3	1560	1503	5.754588	
10	3	7	93.8	1179	1016	6.518	
11	3	7	77.3	1479	1469	6.85674	
12	1	7	72.8	/	/	7.462114	
13	3	7	50.6	1437	1176	7.938097	
14	1	7	98.4	/	/	8.533837	
15	3	7	64.6	1431	1108	9.361625	
16	3	7	84.5	1466	1189	9.606796	
17	2	7	97.3	1231	/	10.52633	
18	3	7	87.3	1694	1621	11.33708	
19	1	7	76.5	/	/	11.41541	

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	17	73.1	1416	/	0.057081	1
1	1	17	66.1	/	/	1.341737	
2	2	17	60.7	1369	/	2.852928	
3	3	17	62	1847	1612	3.213867	
4	3	17	88.7	1909	1506	4.764243	
5	3	17	73.2	1024	1161	5.633861	
6	2	17	93.6	1348	/	6.55419	
7	2	17	87.4	1863	/	7.299748	
8	1	17	98	/	/	8.309225	
9	3	17	69.2	1224	1124	9.968989	
10	3	17	97.3	1209	1643	10.46336	
11	2	17	98.9	1780	/	11.75223	

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	14	74.6	1513	/	1.019703	1
1	1	14	87.6	/	/	1.389636	
2	2	14	69.5	1017	/	3.151198	
3	1	14	83.2	/	/	4.27816	
4	3	14	97	1306	1915	5.610254	
5	1	14	59.7	/	/	7.61606	
6	2	14	95.7	1128	/	9.142984	
7	1	14	92	/	/	10.31491	
8	1	14	93	/	/	11.23959	

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	2	15	63.8	1996	/	0.300226	1
1	3	15	85.4	1138	1972	0.998968	
2	2	15	88.9	1022	/	1.940143	
3	2	15	53.6	1030	/	2.584209	
4	1	15	72.8	/	/	3.429165	
5	3	15	70.4	1306	1432	4.328389	
6	2	15	52	1923	/	5.134611	
7	1	15	71.3	/	/	5.743814	
8	3	15	66.1	1750	1749	6.493592	
9	2	15	66.2	1702	/	6.753466	
10	3	15	57.9	1609	1986	8.110272	
11	1	15	99.5	/	/	8.543278	
12	2	15	80	1258	/	9.677606	
13	1	15	79.9	/	/	10.48719	
14	2	15	77	1258	/	11.22872	
15	2	15	60.3	1017	/	11.50485	

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	1	6	90.5	/	/	0.247643	
1	2	6	62.2	1574	/	1.708362	
2	2	6	91.8	1433	/	3.737953	
3	3	6	53.9	1748	1145	4.997063	
4	1	6	67.1	/	/	5.429391	1
5	2	6	89.9	1146	/	7.500059	
6	3	6	97.8	1770	1123	8.345591	
7	3	6	72.5	1812	1710	10.1869	
8	3	6	69.5	1593	1169	11.19428	

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	1	15	62.5	/	/	0.301427	
1	1	15	74.5	/	/	0.707622	
2	2	15	60.2	1137	/	1.317278	
3	2	15	95.7	1286	/	2.141434	
4	1	15	58.2	/	/	2.932954	
5	2	15	75.5	1787	/	3.240162	
6	2	15	94.3	1055	/	3.76065	
7	3	15	52.4	1039	1336	4.363659	
8	2	15	83.8	1192	/	5.215613	
9	1	15	60.3	/	/	5.654454	
10	3	15	77.8	1332	1031	6.328992	1
11	3	15	95.1	1329	1051	6.835407	
12	2	15	81.4	1447	/	7.460516	
13	2	15	79.8	1518	/	8.231607	
14	2	15	84	1147	/	8.553698	
15	1	15	73.8	/	/	9.03243	
16	2	15	66.6	1594	/	9.689057	
17	2	15	54.1	1843	/	10.73078	
18	2	15	91.2	1251	/	11.34874	
19	3	15	92.6	1257	1482	11.70104	

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	3	17	51.1	1392	1431	0.146436	
1	2	17	73.9	1616	/	2.144686	
2	2	17	55.3	1377	/	3.399357	
3	1	17	99.1	/		4.614978	
4	3	17	95.6	1859	1660	5.486651	1
5	1	17	71.9	/	/	7.191142	
6	1	17	70.6	/	/	8.059967	
7	2	17	87.9	1104	/	9.632439	
8	2	17	59.3	1593	/	11.34755	

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	8	55.1	1541	/	0.347448	
1	2	8	69.7	1384	/	1.220491	
2	2	8	67.3	1378	/	1.959827	
3	2	8	98.3	1088	/	2.385527	
4	2	8	84.9	1992	/	3.278835	
5	1	8	95.7	/	/	3.517969	
6	2	8	78.8	1176	/	4.463181	
7	2	8	58.2	1357	/	4.984405	
8	2	8	85.7	1166	/	5.764335	
9	3	8	90.1	1909	1202	6.093349	0
10	2	8	66	1218	/	6.944778	
11	1	8	63.5	/	/	7.523994	
12	3	8	63.4	1795	1974	8.560548	
13	2	8	74.9	1640	/	8.83564	
14	3	8	83.1	1934	1478	9.7741	
15	1	8	93.4	/	/	10.15077	
16	2	8	59.8	1920	/	11.14743	
17	2	8	84.4	1735	/	11.66893	

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	17	68.8	1081	/	0.248484	1
1	3	17	91.8	1773	1270	2.890939	
2	2	17	83.9	1334	/	3.680654	
3	1	17	89.7	/	/	4.706915	
4	2	17	94.6	1865	/	6.713108	
5	3	17	97.1	1719	1382	7.592324	
6	2	17	78.5	1685	/	9.490154	
7	2	17	97.2	1825	/	11.00614	

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	2	13	54.9	1568	/	0.65356	1
1	2	13	63.3	1417	/	1.253611	
2	3	13	68.5	1975	1658	2.70146	
3	2	13	81.8	1090	/	3.615901	
4	2	13	82.6	1928	/	4.436689	
5	2	13	53.8	1497	/	5.389634	
6	2	13	94.7	1998	/	5.583231	
7	3	13	98.5	1599	1551	7.123757	
8	1	13	82.6	/	/	8.272048	
9	2	13	68.6	1137	/	8.462082	
10	2	13	90.3	1428	/	9.367919	
11	2	13	84.6	1853	/	10.80266	
12	2	13	58.8	1126	/	11.38516	

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	5329.0, 5253.0, 5600.0, 5638.0, 5291.0, 5508.0, 5426.0, 5532.0, 5438.0, 5335.0, 5470.0, 5574.0, 5386.0, 5595.0, 5573.0, 5332.0, 5596.0, 5567.0, 5663.0, 5668.0, 5490.0, 5677.0, 5541.0, 5441.0, 5472.0, 5306.0, 5464.0, 5440.0, 5695.0, 5397.0, 5687.0, 5666.0, 5481.0, 5565.0, 5589.0, 5323.0, 5389.0, 5339.0, 5627.0, 5487.0, 5586.0, 5471.0, 5351.0, 5499.0, 5261.0, 5353.0, 5449.0, 5505.0, 5516.0, 5459.0, 5674.0, 5338.0, 5292.0, 5254.0, 5712.0, 5635.0, 5657.0, 5308.0, 5659.0, 5681.0, 5325.0, 5597.0, 5431.0, 5547.0, 5564.0, 5354.0, 5408.0, 5620.0, 5607.0, 5409.0, 5561.0, 5482.0, 5442.0, 5675.0, 5686.0, 5432.0, 5347.0, 5492.0, 5320.0, 5644.0, 5714.0, 5349.0, 5502.0, 5312.0, 5303.0, 5342.0, 5451.0, 5411.0, 5510.0, 5643.0, 5707.0, 5535.0, 5369.0, 5513.0, 5696.0, 5334.0, 5361.0, 5570.0, 5453.0, 5289.0
2	5530	9	1	333	1	5348.0, 5349.0, 5464.0, 5304.0, 5297.0, 5415.0, 5459.0, 5328.0, 5260.0, 5635.0, 5285.0, 5317.0, 5289.0, 5273.0, 5659.0, 5622.0, 5432.0, 5669.0, 5408.0, 5280.0, 5322.0, 5276.0, 5351.0, 5662.0, 5294.0, 5711.0, 5591.0, 5583.0, 5404.0, 5410.0, 5299.0, 5481.0, 5281.0, 5574.0, 5402.0, 5387.0, 5325.0, 5391.0, 5329.0, 5465.0, 5693.0, 5609.0, 5611.0, 5336.0, 5515.0, 5288.0, 5703.0, 5680.0, 5562.0, 5518.0, 5279.0, 5525.0, 5496.0, 5638.0, 5315.0, 5417.0, 5652.0, 5256.0, 5380.0, 5497.0, 5649.0, 5305.0, 5394.0, 5460.0, 5554.0, 5572.0, 5642.0, 5396.0, 5422.0, 5696.0, 5477.0, 5370.0, 5722.0, 5522.0, 5447.0, 5342.0, 5419.0, 5689.0, 5691.0, 5412.0, 5702.0, 5364.0, 5312.0, 5558.0, 5303.0, 5462.0, 5663.0, 5437.0, 5517.0, 5442.0, 5671.0, 5436.0, 5411.0, 5269.0, 5582.0, 5587.0, 5563.0, 5452.0, 5440.0, 5636.0
3	5530	9	1	333	1	5318.0, 5433.0, 5335.0, 5645.0, 5664.0, 5435.0, 5672.0, 5663.0, 5254.0, 5381.0, 5401.0, 5354.0, 5706.0, 5448.0, 5487.0, 5426.0, 5481.0, 5701.0, 5341.0, 5530.0, 5348.0, 5607.0, 5514.0, 5334.0, 5624.0, 5550.0, 5400.0, 5646.0, 5278.0, 5722.0, 5450.0, 5674.0, 5296.0, 5415.0, 5376.0, 5388.0, 5418.0, 5336.0, 5307.0, 5614.0, 5635.0, 5263.0, 5350.0, 5251.0, 5686.0, 5509.0, 5650.0, 5409.0, 5601.0, 5596.0, 5710.0, 5310.0, 5429.0, 5675.0, 5308.0, 5472.0, 5581.0, 5544.0, 5266.0, 5496.0, 5522.0, 5651.0, 5262.0, 5512.0, 5657.0, 5615.0, 5549.0, 5705.0, 5258.0, 5700.0,

						5269.0, 5277.0, 5533.0, 5259.0, 5603.0, 5267.0, 5328.0, 5459.0, 5540.0, 5313.0, 5399.0, 5599.0, 5687.0, 5384.0, 5402.0, 5268.0, 5470.0, 5363.0, 5513.0, 5591.0, 5297.0, 5684.0, 5378.0, 5393.0, 5260.0, 5677.0, 5428.0, 5617.0, 5462.0, 5692.0
4	5530	9	1	333	1	5464.0, 5698.0, 5346.0, 5303.0, 5275.0, 5685.0, 5349.0, 5611.0, 5525.0, 5562.0, 5612.0, 5451.0, 5520.0, 5437.0, 5307.0, 5449.0, 5404.0, 5484.0, 5566.0, 5343.0, 5398.0, 5709.0, 5597.0, 5299.0, 5503.0, 5386.0, 5383.0, 5314.0, 5358.0, 5431.0, 5432.0, 5666.0, 5692.0, 5281.0, 5679.0, 5673.0, 5656.0, 5438.0, 5429.0, 5360.0, 5479.0, 5388.0, 5481.0, 5289.0, 5391.0, 5518.0, 5276.0, 5671.0, 5279.0, 5697.0, 5367.0, 5284.0, 5659.0, 5496.0, 5667.0, 5447.0, 5350.0, 5427.0, 5677.0, 5354.0, 5575.0, 5332.0, 5413.0, 5648.0, 5486.0, 5253.0, 5459.0, 5462.0, 5639.0, 5586.0, 5537.0, 5682.0, 5540.0, 5453.0, 5705.0, 5478.0, 5651.0, 5295.0, 5701.0, 5644.0, 5593.0, 5574.0, 5402.0, 5288.0, 5542.0, 5389.0, 5340.0, 5533.0, 5722.0, 5374.0, 5602.0, 5255.0, 5270.0, 5660.0, 5687.0, 5641.0, 5400.0, 5517.0, 5676.0, 5416.0
5	5530	9	1	333	1	5637.0, 5652.0, 5628.0, 5586.0, 5700.0, 5690.0, 5701.0, 5372.0, 5331.0, 5379.0, 5566.0, 5474.0, 5547.0, 5298.0, 5306.0, 5650.0, 5510.0, 5507.0, 5512.0, 5308.0, 5605.0, 5334.0, 5305.0, 5416.0, 5614.0, 5338.0, 5555.0, 5641.0, 5322.0, 5400.0, 5532.0, 5304.0, 5691.0, 5418.0, 5666.0, 5514.0, 5309.0, 5365.0, 5373.0, 5490.0, 5392.0, 5425.0, 5317.0, 5679.0, 5263.0, 5523.0, 5487.0, 5552.0, 5486.0, 5380.0, 5673.0, 5281.0, 5467.0, 5713.0, 5539.0, 5383.0, 5374.0, 5424.0, 5511.0, 5663.0, 5481.0, 5384.0, 5353.0, 5662.0, 5575.0, 5371.0, 5494.0, 5537.0, 5708.0, 5624.0, 5501.0, 5438.0, 5324.0, 5453.0, 5448.0, 5473.0, 5427.0, 5366.0, 5472.0, 5277.0, 5549.0, 5270.0, 5627.0, 5702.0, 5410.0, 5644.0, 5551.0, 5521.0, 5478.0, 5678.0, 5584.0, 5382.0, 5513.0, 5464.0, 5479.0, 5435.0, 5254.0, 5301.0, 5704.0, 5257.0
6	5530	9	1	333	1	5291.0, 5296.0, 5346.0, 5596.0, 5552.0, 5406.0, 5567.0, 5518.0, 5701.0, 5680.0, 5482.0, 5493.0, 5484.0, 5336.0, 5524.0, 5480.0, 5407.0, 5712.0, 5420.0, 5467.0, 5677.0, 5421.0, 5384.0, 5522.0, 5540.0, 5691.0, 5558.0, 5570.0, 5674.0, 5545.0, 5375.0, 5710.0, 5449.0, 5525.0, 5595.0, 5612.0, 5300.0, 5636.0, 5607.0, 5608.0, 5290.0, 5404.0, 5269.0, 5602.0, 5631.0, 5446.0, 5656.0, 5411.0, 5465.0, 5440.0, 5665.0, 5415.0, 5529.0, 5445.0, 5559.0, 5279.0, 5718.0, 5339.0, 5615.0, 5715.0, 5490.0, 5468.0, 5489.0, 5551.0, 5574.0, 5541.0, 5301.0, 5473.0, 5441.0, 5613.0,

						5436.0, 5481.0, 5664.0, 5514.0, 5288.0, 5350.0, 5361.0, 5604.0, 5658.0, 5253.0, 5472.0, 5686.0, 5343.0, 5430.0, 5543.0, 5643.0, 5268.0, 5326.0, 5673.0, 5555.0, 5564.0, 5495.0, 5396.0, 5330.0, 5593.0, 5261.0, 5505.0, 5408.0, 5286.0, 5666.0
7	5530	9	1	333	1	5305.0, 5480.0, 5627.0, 5438.0, 5433.0, 5696.0, 5703.0, 5628.0, 5279.0, 5579.0, 5688.0, 5376.0, 5413.0, 5436.0, 5292.0, 5320.0, 5616.0, 5334.0, 5716.0, 5267.0, 5327.0, 5670.0, 5445.0, 5251.0, 5302.0, 5381.0, 5333.0, 5659.0, 5364.0, 5430.0, 5592.0, 5712.0, 5284.0, 5591.0, 5467.0, 5476.0, 5263.0, 5359.0, 5549.0, 5531.0, 5285.0, 5369.0, 5563.0, 5262.0, 5606.0, 5414.0, 5699.0, 5550.0, 5523.0, 5330.0, 5338.0, 5442.0, 5536.0, 5373.0, 5324.0, 5400.0, 5406.0, 5597.0, 5362.0, 5644.0, 5408.0, 5662.0, 5684.0, 5287.0, 5617.0, 5276.0, 5532.0, 5331.0, 5311.0, 5590.0, 5661.0, 5530.0, 5295.0, 5268.0, 5464.0, 5392.0, 5319.0, 5556.0, 5404.0, 5488.0, 5675.0, 5454.0, 5281.0, 5605.0, 5593.0, 5596.0, 5432.0, 5458.0, 5317.0, 5589.0, 5522.0, 5435.0, 5253.0, 5602.0, 5570.0, 5564.0, 5256.0, 5481.0, 5437.0, 5552.0
8	5530	9	1	333	1	5672.0, 5629.0, 5602.0, 5548.0, 5490.0, 5510.0, 5543.0, 5276.0, 5500.0, 5310.0, 5577.0, 5252.0, 5713.0, 5354.0, 5535.0, 5605.0, 5435.0, 5540.0, 5386.0, 5368.0, 5324.0, 5714.0, 5298.0, 5325.0, 5542.0, 5681.0, 5333.0, 5421.0, 5483.0, 5555.0, 5380.0, 5326.0, 5476.0, 5300.0, 5574.0, 5414.0, 5623.0, 5544.0, 5484.0, 5290.0, 5430.0, 5338.0, 5505.0, 5547.0, 5652.0, 5340.0, 5465.0, 5504.0, 5263.0, 5434.0, 5698.0, 5281.0, 5601.0, 5448.0, 5316.0, 5284.0, 5453.0, 5395.0, 5317.0, 5559.0, 5301.0, 5517.0, 5342.0, 5608.0, 5519.0, 5272.0, 5358.0, 5514.0, 5481.0, 5405.0, 5258.0, 5590.0, 5690.0, 5523.0, 5463.0, 5706.0, 5346.0, 5565.0, 5479.0, 5304.0, 5671.0, 5273.0, 5723.0, 5589.0, 5654.0, 5717.0, 5720.0, 5432.0, 5643.0, 5551.0, 5353.0, 5673.0, 5400.0, 5427.0, 5440.0, 5619.0, 5563.0, 5576.0, 5721.0, 5691.0
9	5530	9	1	333	1	5350.0, 5355.0, 5585.0, 5275.0, 5577.0, 5325.0, 5250.0, 5530.0, 5511.0, 5526.0, 5298.0, 5453.0, 5377.0, 5330.0, 5368.0, 5434.0, 5312.0, 5256.0, 5640.0, 5705.0, 5424.0, 5261.0, 5381.0, 5320.0, 5494.0, 5524.0, 5508.0, 5362.0, 5570.0, 5703.0, 5588.0, 5327.0, 5702.0, 5644.0, 5364.0, 5684.0, 5481.0, 5662.0, 5267.0, 5626.0, 5470.0, 5310.0, 5552.0, 5263.0, 5407.0, 5395.0, 5251.0, 5518.0, 5299.0, 5685.0, 5620.0, 5613.0, 5388.0, 5599.0, 5255.0, 5510.0, 5687.0, 5334.0, 5583.0, 5258.0, 5579.0, 5359.0, 5492.0, 5415.0, 5654.0, 5580.0, 5715.0, 5704.0, 5522.0, 5471.0,

						5442.0, 5457.0, 5387.0, 5500.0, 5259.0, 5475.0, 5469.0, 5648.0, 5669.0, 5357.0, 5521.0, 5563.0, 5503.0, 5309.0, 5426.0, 5607.0, 5406.0, 5385.0, 5675.0, 5616.0, 5556.0, 5447.0, 5427.0, 5448.0, 5396.0, 5273.0, 5287.0, 5578.0, 5633.0, 5694.0
10	5530	9	1	333	1	5448.0, 5471.0, 5663.0, 5353.0, 5723.0, 5523.0, 5304.0, 5406.0, 5338.0, 5506.0, 5601.0, 5589.0, 5282.0, 5311.0, 5349.0, 5253.0, 5443.0, 5591.0, 5295.0, 5469.0, 5698.0, 5565.0, 5614.0, 5437.0, 5618.0, 5599.0, 5706.0, 5510.0, 5325.0, 5666.0, 5372.0, 5374.0, 5560.0, 5344.0, 5620.0, 5647.0, 5440.0, 5719.0, 5368.0, 5383.0, 5279.0, 5442.0, 5680.0, 5377.0, 5308.0, 5288.0, 5434.0, 5418.0, 5431.0, 5632.0, 5493.0, 5582.0, 5310.0, 5667.0, 5552.0, 5346.0, 5427.0, 5531.0, 5513.0, 5594.0, 5711.0, 5603.0, 5548.0, 5486.0, 5687.0, 5421.0, 5708.0, 5649.0, 5547.0, 5674.0, 5254.0, 5688.0, 5473.0, 5426.0, 5691.0, 5655.0, 5270.0, 5476.0, 5556.0, 5378.0, 5447.0, 5329.0, 5646.0, 5293.0, 5475.0, 5648.0, 5569.0, 5355.0, 5317.0, 5718.0, 5298.0, 5273.0, 5340.0, 5283.0, 5624.0, 5432.0, 5635.0, 5575.0, 5327.0, 5481.0
11	5530	9	1	333	1	5348.0, 5657.0, 5695.0, 5366.0, 5408.0, 5326.0, 5463.0, 5324.0, 5407.0, 5594.0, 5572.0, 5662.0, 5519.0, 5498.0, 5595.0, 5493.0, 5296.0, 5443.0, 5470.0, 5704.0, 5365.0, 5522.0, 5367.0, 5561.0, 5697.0, 5403.0, 5457.0, 5649.0, 5721.0, 5257.0, 5495.0, 5578.0, 5636.0, 5570.0, 5534.0, 5653.0, 5619.0, 5623.0, 5275.0, 5484.0, 5543.0, 5485.0, 5675.0, 5537.0, 5494.0, 5527.0, 5557.0, 5713.0, 5446.0, 5616.0, 5442.0, 5686.0, 5480.0, 5478.0, 5488.0, 5673.0, 5356.0, 5560.0, 5719.0, 5692.0, 5309.0, 5335.0, 5294.0, 5411.0, 5489.0, 5672.0, 5626.0, 5631.0, 5533.0, 5392.0, 5451.0, 5526.0, 5428.0, 5528.0, 5583.0, 5339.0, 5395.0, 5638.0, 5281.0, 5254.0, 5691.0, 5603.0, 5500.0, 5581.0, 5447.0, 5362.0, 5658.0, 5340.0, 5461.0, 5323.0, 5651.0, 5613.0, 5250.0, 5627.0, 5474.0, 5720.0, 5444.0, 5414.0, 5598.0, 5491.0
12	5530	9	1	333	1	5671.0, 5395.0, 5698.0, 5597.0, 5556.0, 5687.0, 5391.0, 5427.0, 5713.0, 5370.0, 5628.0, 5509.0, 5360.0, 5446.0, 5302.0, 5546.0, 5716.0, 5438.0, 5529.0, 5474.0, 5644.0, 5676.0, 5396.0, 5532.0, 5362.0, 5547.0, 5581.0, 5629.0, 5262.0, 5402.0, 5426.0, 5443.0, 5627.0, 5537.0, 5381.0, 5415.0, 5592.0, 5635.0, 5325.0, 5386.0, 5380.0, 5479.0, 5558.0, 5707.0, 5594.0, 5274.0, 5439.0, 5522.0, 5692.0, 5388.0, 5383.0, 5430.0, 5363.0, 5269.0, 5591.0, 5288.0, 5265.0, 5689.0, 5593.0, 5256.0, 5686.0, 5614.0, 5633.0, 5655.0, 5616.0, 5477.0, 5258.0, 5389.0, 5564.0, 5503.0,

						5549.0, 5574.0, 5282.0, 5311.0, 5452.0, 5457.0, 5352.0, 5408.0, 5545.0, 5382.0, 5273.0, 5424.0, 5322.0, 5422.0, 5636.0, 5387.0, 5666.0, 5290.0, 5364.0, 5717.0, 5453.0, 5620.0, 5568.0, 5552.0, 5449.0, 5428.0, 5577.0, 5271.0, 5647.0, 5662.0
13	5530	9	1	333	1	5595.0, 5497.0, 5383.0, 5574.0, 5582.0, 5679.0, 5576.0, 5374.0, 5622.0, 5316.0, 5710.0, 5668.0, 5375.0, 5467.0, 5539.0, 5323.0, 5708.0, 5572.0, 5370.0, 5655.0, 5321.0, 5285.0, 5557.0, 5488.0, 5470.0, 5691.0, 5416.0, 5611.0, 5258.0, 5583.0, 5707.0, 5591.0, 5661.0, 5623.0, 5542.0, 5261.0, 5324.0, 5628.0, 5312.0, 5399.0, 5473.0, 5418.0, 5471.0, 5635.0, 5630.0, 5654.0, 5700.0, 5458.0, 5555.0, 5286.0, 5273.0, 5327.0, 5569.0, 5335.0, 5256.0, 5379.0, 5694.0, 5597.0, 5619.0, 5600.0, 5638.0, 5315.0, 5355.0, 5584.0, 5384.0, 5288.0, 5669.0, 5410.0, 5524.0, 5308.0, 5498.0, 5580.0, 5268.0, 5706.0, 5302.0, 5703.0, 5642.0, 5348.0, 5568.0, 5274.0, 5604.0, 5260.0, 5532.0, 5561.0, 5390.0, 5310.0, 5333.0, 5516.0, 5494.0, 5579.0, 5381.0, 5367.0, 5538.0, 5432.0, 5351.0, 5504.0, 5472.0, 5664.0, 5671.0, 5533.0
14	5530	9	1	333	1	5541.0, 5383.0, 5536.0, 5705.0, 5330.0, 5628.0, 5450.0, 5378.0, 5493.0, 5712.0, 5454.0, 5527.0, 5436.0, 5434.0, 5674.0, 5509.0, 5333.0, 5297.0, 5569.0, 5654.0, 5681.0, 5622.0, 5585.0, 5329.0, 5600.0, 5630.0, 5608.0, 5593.0, 5489.0, 5507.0, 5389.0, 5324.0, 5485.0, 5669.0, 5367.0, 5718.0, 5410.0, 5554.0, 5409.0, 5309.0, 5546.0, 5304.0, 5275.0, 5504.0, 5526.0, 5499.0, 5653.0, 5264.0, 5664.0, 5710.0, 5487.0, 5365.0, 5643.0, 5679.0, 5348.0, 5722.0, 5515.0, 5323.0, 5511.0, 5505.0, 5343.0, 5268.0, 5667.0, 5310.0, 5301.0, 5557.0, 5480.0, 5680.0, 5467.0, 5432.0, 5549.0, 5439.0, 5397.0, 5266.0, 5707.0, 5357.0, 5255.0, 5468.0, 5659.0, 5671.0, 5655.0, 5321.0, 5543.0, 5689.0, 5449.0, 5272.0, 5461.0, 5650.0, 5580.0, 5716.0, 5419.0, 5717.0, 5578.0, 5420.0, 5401.0, 5644.0, 5666.0, 5362.0, 5625.0, 5583.0
15	5530	9	1	333	1	5282.0, 5591.0, 5710.0, 5475.0, 5337.0, 5327.0, 5310.0, 5422.0, 5273.0, 5269.0, 5321.0, 5537.0, 5491.0, 5250.0, 5612.0, 5260.0, 5593.0, 5424.0, 5626.0, 5371.0, 5354.0, 5359.0, 5605.0, 5576.0, 5545.0, 5331.0, 5423.0, 5518.0, 5665.0, 5400.0, 5604.0, 5621.0, 5417.0, 5276.0, 5366.0, 5278.0, 5664.0, 5437.0, 5348.0, 5381.0, 5487.0, 5657.0, 5428.0, 5597.0, 5596.0, 5534.0, 5574.0, 5294.0, 5506.0, 5257.0, 5563.0, 5683.0, 5261.0, 5587.0, 5646.0, 5429.0, 5347.0, 5541.0, 5578.0, 5717.0, 5414.0, 5286.0, 5450.0, 5465.0, 5718.0, 5714.0, 5553.0, 5377.0, 5333.0, 5592.0,

						5588.0, 5501.0, 5431.0, 5675.0, 5390.0, 5304.0, 5645.0, 5586.0, 5711.0, 5512.0, 5712.0, 5490.0, 5579.0, 5546.0, 5532.0, 5653.0, 5517.0, 5335.0, 5616.0, 5589.0, 5630.0, 5281.0, 5668.0, 5637.0, 5492.0, 5582.0, 5323.0, 5706.0, 5663.0, 5474.0
16	5530	9	1	333	1	5701.0, 5579.0, 5513.0, 5495.0, 5545.0, 5697.0, 5551.0, 5638.0, 5694.0, 5556.0, 5290.0, 5585.0, 5413.0, 5392.0, 5275.0, 5496.0, 5589.0, 5522.0, 5437.0, 5559.0, 5339.0, 5388.0, 5259.0, 5287.0, 5606.0, 5530.0, 5653.0, 5439.0, 5564.0, 5612.0, 5265.0, 5681.0, 5400.0, 5552.0, 5614.0, 5700.0, 5678.0, 5567.0, 5462.0, 5668.0, 5623.0, 5620.0, 5333.0, 5540.0, 5544.0, 5481.0, 5364.0, 5331.0, 5311.0, 5647.0, 5648.0, 5348.0, 5581.0, 5475.0, 5291.0, 5514.0, 5282.0, 5659.0, 5482.0, 5721.0, 5572.0, 5593.0, 5455.0, 5424.0, 5504.0, 5539.0, 5314.0, 5464.0, 5547.0, 5692.0, 5538.0, 5599.0, 5340.0, 5655.0, 5628.0, 5679.0, 5592.0, 5489.0, 5271.0, 5621.0, 5352.0, 5483.0, 5458.0, 5428.0, 5452.0, 5671.0, 5512.0, 5365.0, 5354.0, 5451.0, 5639.0, 5358.0, 5461.0, 5546.0, 5347.0, 5578.0, 5693.0, 5468.0, 5383.0, 5450.0
17	5530	9	1	333	1	5391.0, 5257.0, 5686.0, 5484.0, 5565.0, 5389.0, 5361.0, 5397.0, 5635.0, 5408.0, 5276.0, 5258.0, 5300.0, 5415.0, 5652.0, 5570.0, 5643.0, 5674.0, 5376.0, 5363.0, 5523.0, 5272.0, 5379.0, 5559.0, 5437.0, 5626.0, 5364.0, 5723.0, 5618.0, 5694.0, 5456.0, 5349.0, 5632.0, 5658.0, 5568.0, 5282.0, 5598.0, 5334.0, 5685.0, 5605.0, 5666.0, 5665.0, 5411.0, 5478.0, 5574.0, 5671.0, 5352.0, 5426.0, 5253.0, 5627.0, 5489.0, 5533.0, 5552.0, 5589.0, 5676.0, 5441.0, 5579.0, 5469.0, 5425.0, 5691.0, 5562.0, 5606.0, 5540.0, 5418.0, 5679.0, 5382.0, 5402.0, 5301.0, 5621.0, 5434.0, 5675.0, 5393.0, 5612.0, 5355.0, 5536.0, 5513.0, 5617.0, 5307.0, 5692.0, 5412.0, 5474.0, 5385.0, 5488.0, 5628.0, 5584.0, 5599.0, 5509.0, 5507.0, 5714.0, 5315.0, 5707.0, 5346.0, 5317.0, 5524.0, 5452.0, 5528.0, 5508.0, 5575.0, 5664.0, 5657.0
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22	5530	9	1	333	1	5311.0, 5648.0, 5474.0, 5262.0, 5583.0, 5322.0, 5332.0, 5662.0, 5420.0, 5361.0, 5448.0, 5509.0, 5696.0, 5578.0, 5328.0, 5658.0, 5403.0, 5386.0, 5458.0, 5480.0, 5638.0, 5607.0, 5392.0, 5518.0, 5581.0, 5640.0, 5436.0, 5544.0, 5469.0, 5456.0, 5300.0, 5288.0, 5439.0, 5459.0, 5699.0, 5532.0, 5703.0, 5405.0, 5536.0, 5451.0, 5412.0, 5419.0, 5681.0, 5585.0, 5376.0, 5409.0, 5511.0, 5258.0, 5293.0, 5257.0, 5270.0, 5471.0, 5632.0, 5576.0, 5331.0, 5593.0, 5504.0, 5616.0, 5395.0, 5689.0, 5546.0, 5394.0, 5600.0, 5639.0, 5426.0, 5528.0, 5371.0, 5519.0, 5587.0, 5454.0, 5428.0, 5269.0, 5574.0, 5617.0, 5430.0, 5314.0, 5369.0, 5306.0, 5705.0, 5389.0, 5687.0, 5272.0, 5592.0, 5364.0, 5557.0, 5577.0, 5559.0, 5636.0, 5496.0, 5545.0, 5433.0, 5441.0, 5387.0, 5377.0, 5566.0, 5255.0, 5665.0, 5531.0, 5621.0, 5516.0
23	5530	9	1	333	1	5283.0, 5671.0, 5650.0, 5474.0, 5254.0, 5343.0, 5665.0, 5478.0, 5347.0, 5477.0, 5395.0, 5613.0, 5715.0, 5521.0, 5488.0, 5415.0, 5655.0, 5272.0, 5497.0, 5302.0, 5707.0, 5335.0, 5357.0, 5467.0, 5499.0, 5453.0, 5584.0, 5520.0, 5448.0, 5669.0, 5416.0, 5708.0, 5661.0, 5634.0, 5459.0, 5713.0, 5303.0, 5291.0, 5595.0, 5433.0, 5402.0, 5580.0, 5359.0, 5330.0, 5265.0, 5366.0, 5345.0, 5667.0, 5428.0, 5256.0, 5706.0, 5294.0, 5327.0, 5602.0, 5681.0, 5597.0, 5712.0, 5285.0, 5386.0, 5630.0, 5404.0, 5481.0, 5417.0, 5350.0, 5699.0, 5414.0, 5354.0, 5310.0, 5562.0, 5277.0, 5652.0, 5645.0, 5306.0, 5251.0, 5614.0, 5309.0, 5700.0, 5430.0, 5485.0, 5722.0, 5588.0, 5517.0, 5719.0, 5619.0, 5550.0, 5603.0, 5394.0, 5534.0, 5280.0, 5720.0, 5424.0, 5411.0, 5465.0, 5381.0, 5451.0, 5321.0, 5658.0, 5701.0, 5282.0, 5598.0
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						5270.0, 5419.0, 5500.0, 5524.0, 5698.0, 5515.0, 5454.0, 5287.0, 5275.0, 5307.0, 5509.0, 5623.0, 5478.0, 5513.0, 5389.0, 5359.0, 5286.0, 5337.0, 5530.0, 5483.0, 5539.0, 5420.0, 5353.0, 5718.0, 5410.0, 5370.0, 5625.0, 5274.0, 5367.0, 5434.0
25	5530	9	1	333	1	5299.0, 5440.0, 5669.0, 5701.0, 5581.0, 5441.0, 5426.0, 5343.0, 5461.0, 5378.0, 5591.0, 5251.0, 5720.0, 5641.0, 5413.0, 5435.0, 5659.0, 5391.0, 5674.0, 5625.0, 5488.0, 5555.0, 5529.0, 5476.0, 5477.0, 5650.0, 5430.0, 5258.0, 5533.0, 5253.0, 5547.0, 5541.0, 5415.0, 5450.0, 5662.0, 5567.0, 5635.0, 5592.0, 5417.0, 5632.0, 5370.0, 5318.0, 5337.0, 5431.0, 5436.0, 5501.0, 5306.0, 5382.0, 5481.0, 5427.0, 5387.0, 5275.0, 5640.0, 5428.0, 5445.0, 5680.0, 5357.0, 5316.0, 5611.0, 5527.0, 5308.0, 5690.0, 5402.0, 5550.0, 5459.0, 5600.0, 5412.0, 5627.0, 5500.0, 5322.0, 5489.0, 5353.0, 5392.0, 5352.0, 5304.0, 5495.0, 5386.0, 5566.0, 5296.0, 5278.0, 5671.0, 5307.0, 5410.0, 5595.0, 5664.0, 5638.0, 5340.0, 5438.0, 5372.0, 5514.0, 5326.0, 5454.0, 5613.0, 5272.0, 5685.0, 5400.0, 5643.0, 5325.0, 5545.0, 5612.0
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******* END OF REPORT *******

EXHIBIT - TEST SETUP PHOTOGRAPHS