FCC PART 15.407
RSS-247 ISSUE 1, MAY 2015

DYNAMIC FREQUENCY SELECTION

TEST REPORT

For

SmartRG, Inc.

501 SE Columbia Shores Blvd., Suite 500, Vancouver, WA 98661 USA

FCC ID: VW7SR400AC
IC: 11130A-SR400AC

Report Type:	**Product Type:**
Original Report	802.11ac Gigabit Router

Report Number: RSZ150819007-00

Report Date: 2017-05-09

Reviewed By: Jerry Chang

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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Taiwan)

EVISION HISTORY

Revision	Issue Date	Description
1.0	2017-05-09	Original

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SmartRG, Inc.*'s product, model number: *SR400ac (FCC ID: VW7SR400AC, IC: 11130A-SR400AC) or* ("EUT") in this report is a *802.11ac Gigabit Router*, which was measured approximately: 22.4 cm (L) x 19.1 cm (W) x 8.4 cm (H), rated with input voltage: DC 12 V from adapter.

**All measurement and test data in this report was gathered from production sample serial number: 1601016(Assigned by BACL, Taiwan). The EUT supplied by the applicant was received on 2016-01-04.*

Objective

This report is prepared on behalf of *SmartRG, Inc.* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and E of the Federal Communications Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15.407(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS);

And IC RSS-247, Issue 1, May 2015§6.3 Dynamic Frequency Selection (DFS) for devices operating in the bands 5250- 5350 MHz,5470-5600 MHz and 5650-5725 MHz

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. (Taiwan) to collect test data is located on the 70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 22183, Taiwan, R.O.C.

Test site at Bay Area Compliance Laboratories Corp. (Taiwan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.10.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 431084. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

EUT Exercise Software

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

Equipment Modifications

N/A

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	NB	E6410	10912240367

External Cable

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

SUMMARY OF TEST RESULTS

The following result table represents the list of measurements required under the CFR §47 Part 15.407(h), RSS-247 Issue 1, 2015 §6.3 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

Test time: 2016-10-21 ~2017-05-08.

APPLICABLE STANDARDS

DFS Requirement

CFR §47 Part 15.407(h), RSS-247 Issue 1, 2015 §6.3

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

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

Table 2: Applicability of DFS requirements during normal operation

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

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	**Value (See Notes 1, 2, and 3)**
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Table 4: DFS Response Requirement Values

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

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 usec is selected, the number of pulses would be $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{3066}\right)\right\} = \text{Roundup}\{17.2\} = 18.$

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

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

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

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per *Burst*	Number of *Bursts*	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

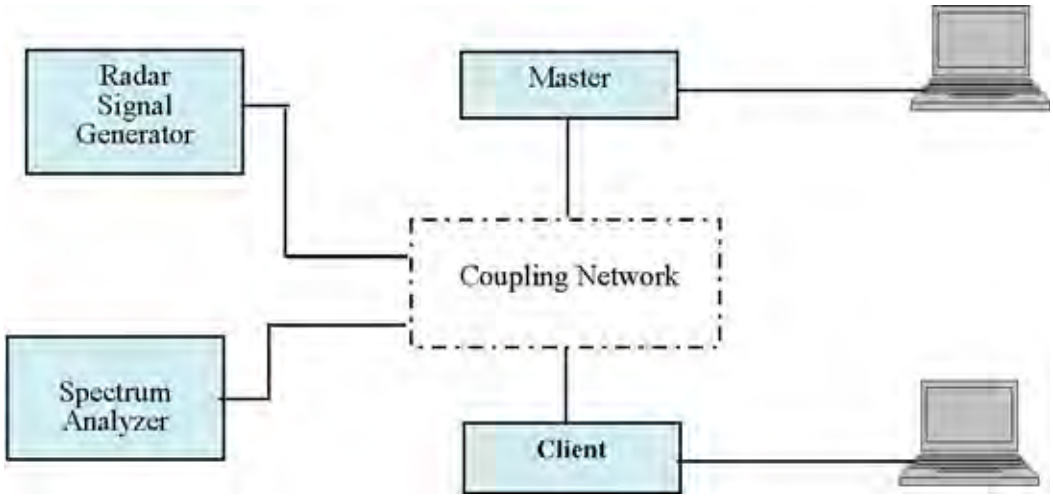
Table 7 – Frequency Hopping Radar Test Waveform

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

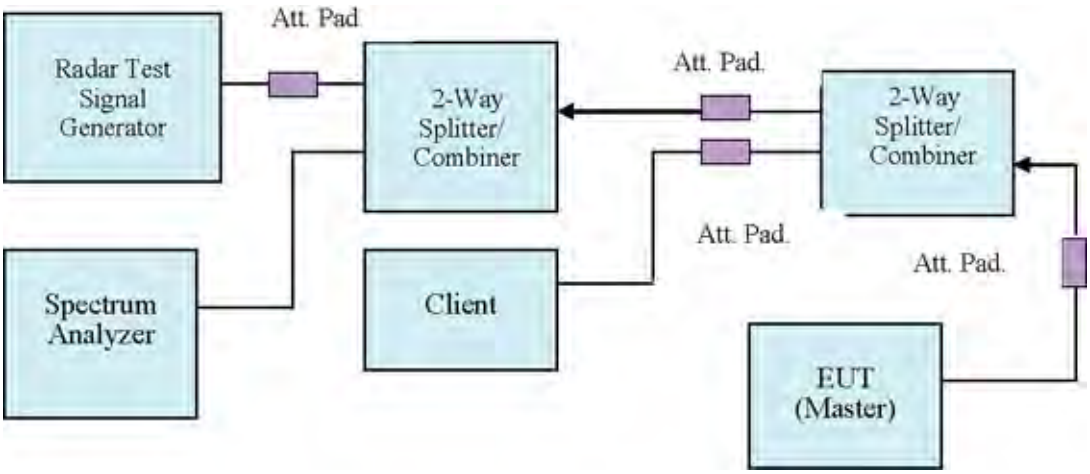
DFS Measurement System

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

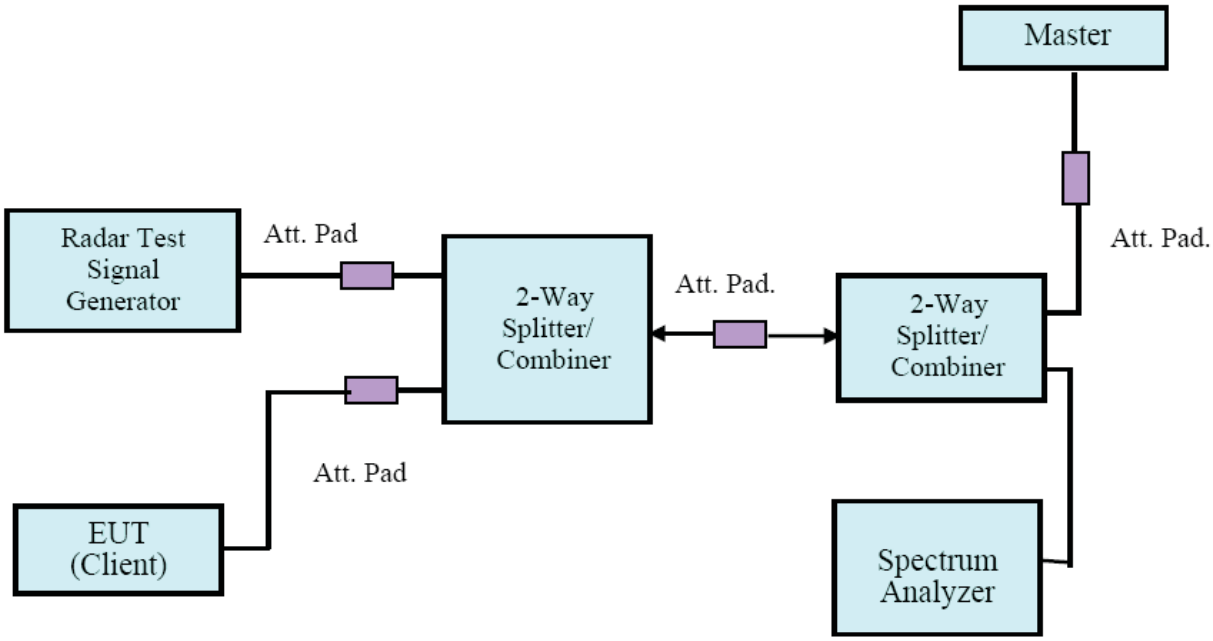
System Block Diagram



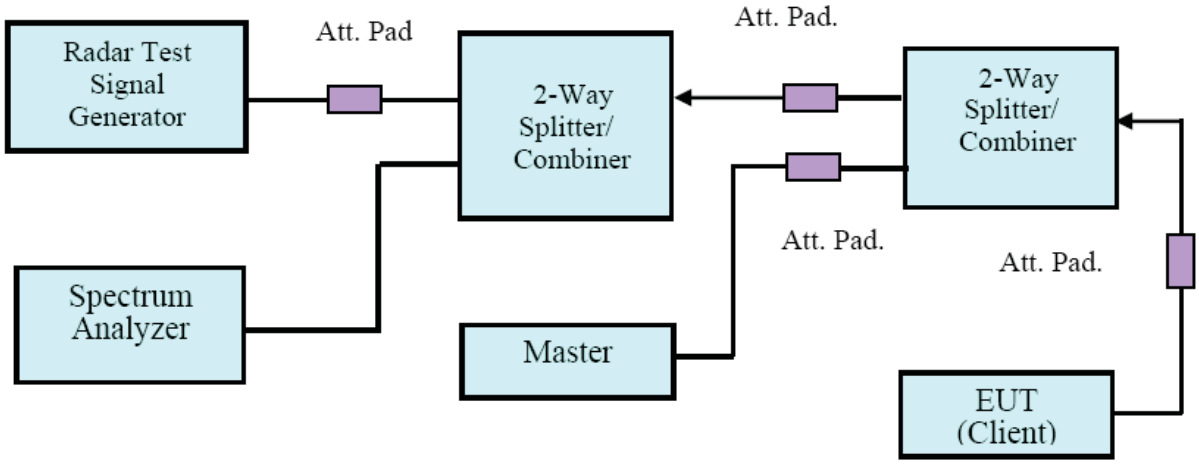
Conducted Method



Setup for Master with injection at the Master

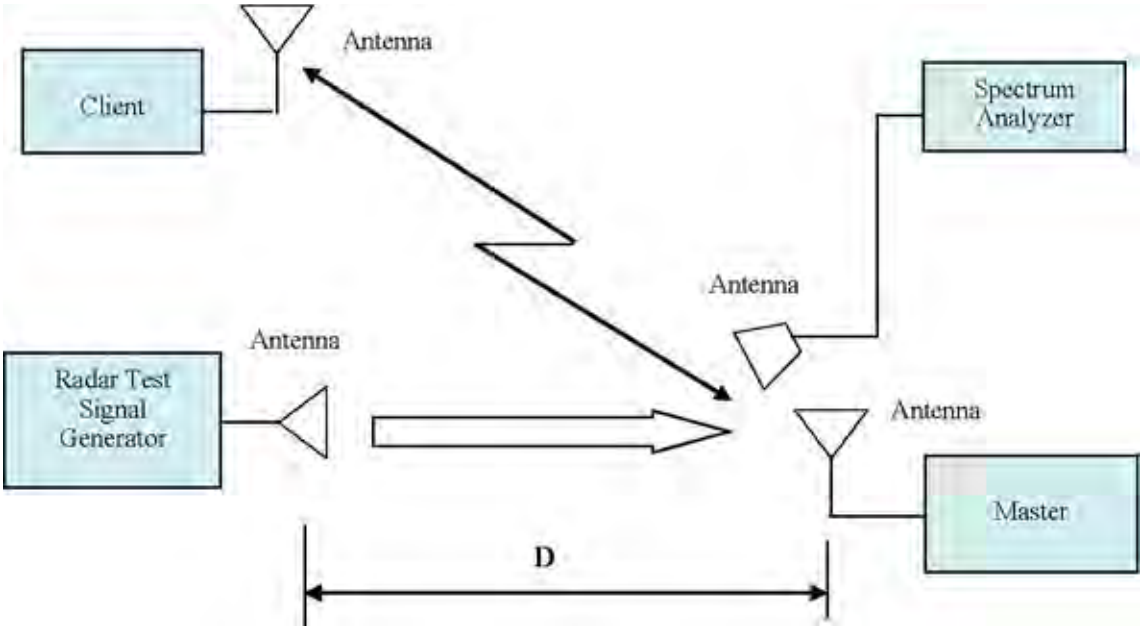


Setup for Client with injection at the Master



Setup for Client with injection at the Client

Radiated Method



Test Procedure

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

TEST RESULTS

Description of EUT

The EUT operates in 5250-5350 MHz and 5470-5725 MHz range.

The maximum e.r.i.p. of EUT is 17.54+3=20.54dBm <23dBm, therefore the required interference threshold level is -62 dBm, the required radiated threshold at antenna port is -62dBm.

The calibrated radiated DFS detection threshold level is set to -62 dBm.

Channel Loading

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:
a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.
d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.

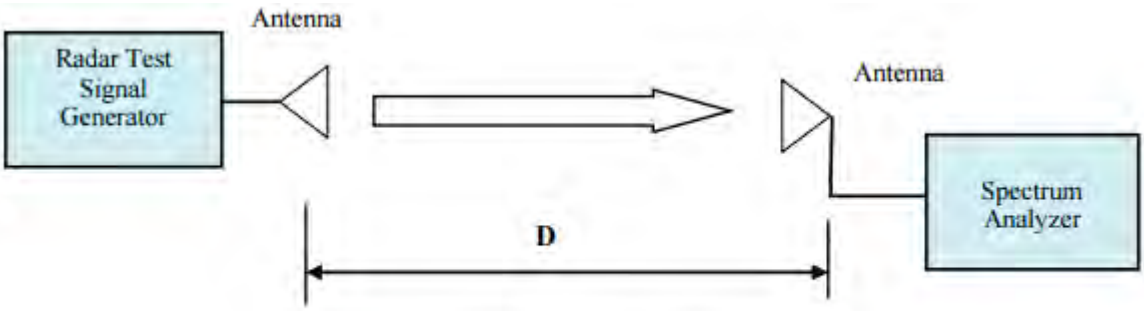
The sample is use merhod (c)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Spectrum Analyzer	FSU26	200268	2016/5/7	2017/5/6
Rohde & Schwarz	Vector Signal Generator	SMBV100A	261748	2016/11/9	2017/11/8
EMCO	Horn Antenna	3115	9311-4158	2016/5/10	2017/5/9
EMCO	Horn Antenna	3115	2171	2016/7/19	2017/7/18
ROSNAL	Mircoflex Cable	K1K50-UP0264-K1K50-80CM	160309-2	2016/3/24	2017/3/23
ROSNAL	Mircoflex Cable	K1K50-UP0264-K1K50-450CM	160309-1	2016/3/24	2017/3/23
Rohde & Schwarz	software	R&S Pulse Sequencer	NCR	NCR	NCR
LabVIEW	software	Aggregate	NCR	NCR	NCR

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

Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

Test Environmental Conditions

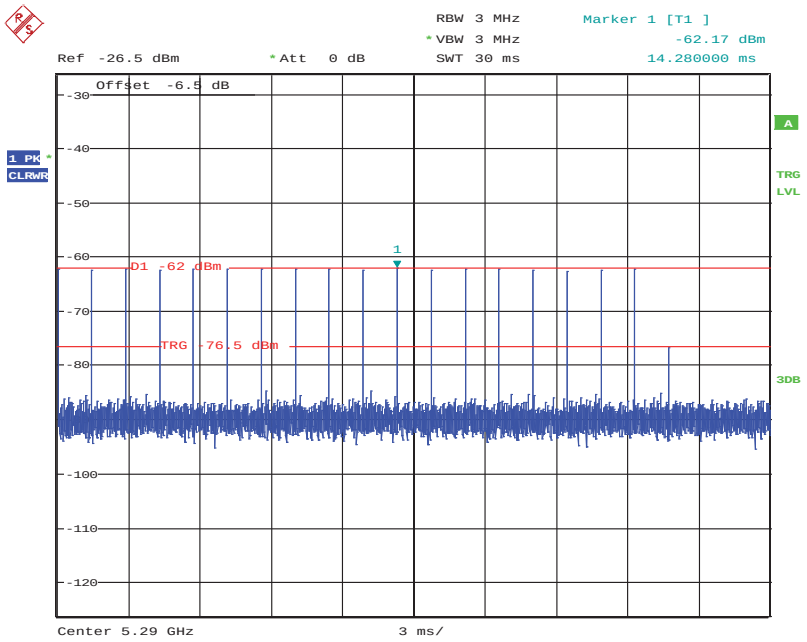
Temperature:	25.5~29.2 ° C
Relative Humidity:	42~49 %
ATM Pressure:	100.5~100.6 kPa

The testing was performed by David. Hsu from 2016-10-21 ~2017-05-08.

Plots of Radar Waveforms

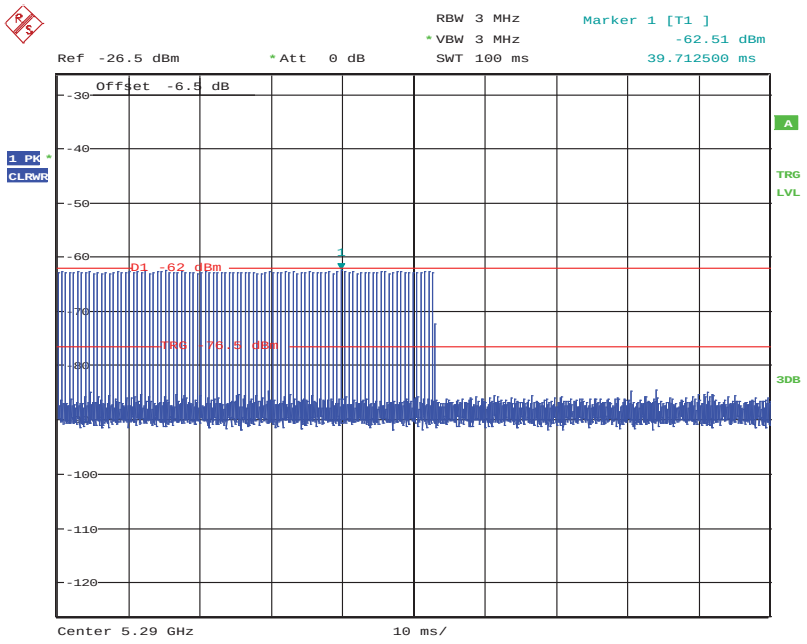
5290 MHz:

Radar Type 0



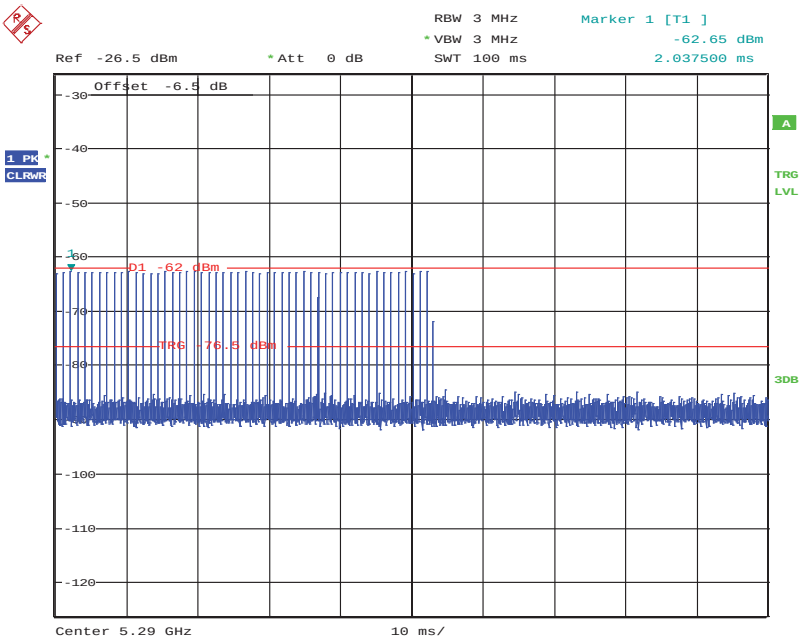
Date: 8.MAY.2017 16:31:29

Radar Type 1A



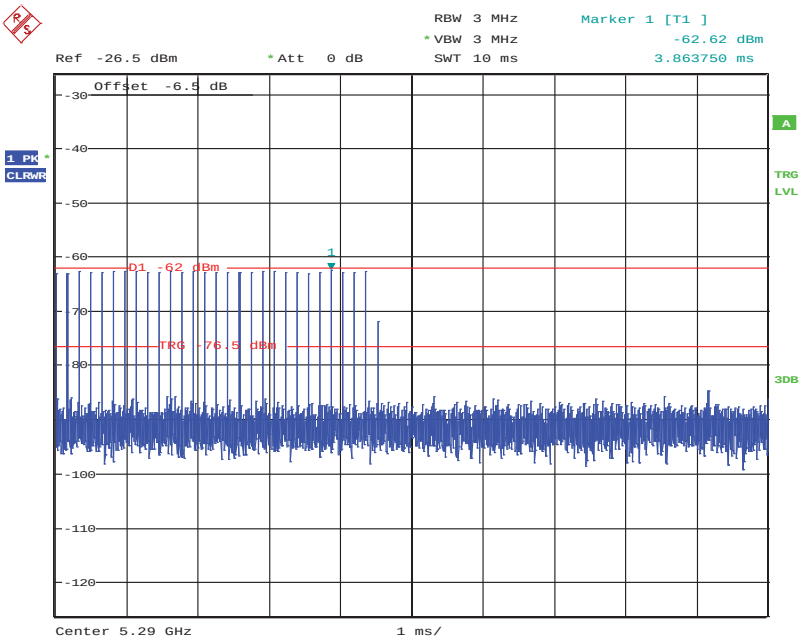
Date: 8.MAY.2017 16:30:36

Radar Type 1B



Date: 8.MAY.2017 16:29:50

Radar Type 2



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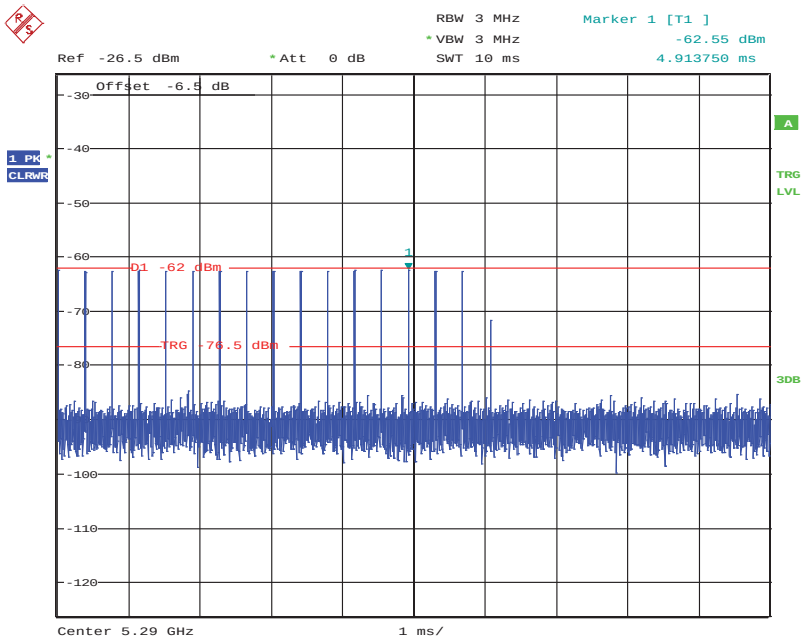
Radar Type 3



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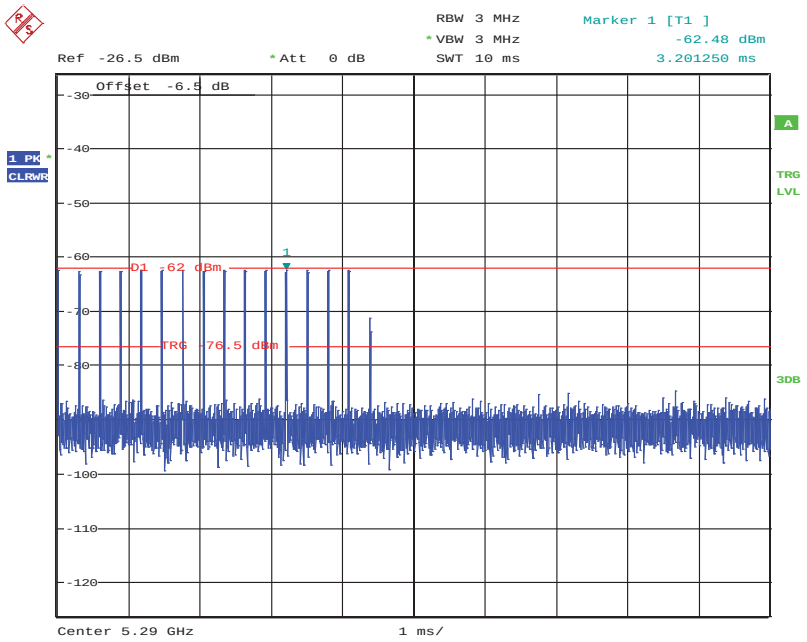
Radar Type 4



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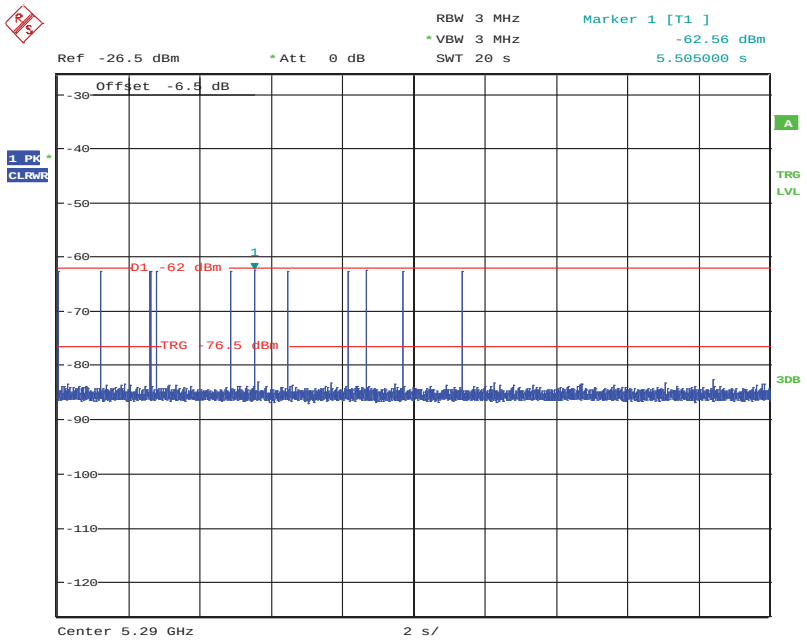
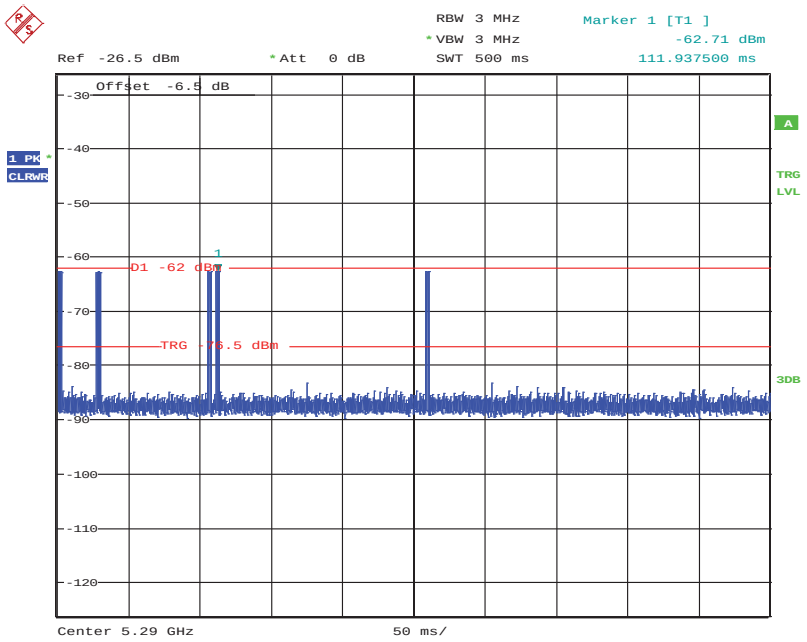
Radar Type 5



Date: 8.MAY.2017 16:25:48

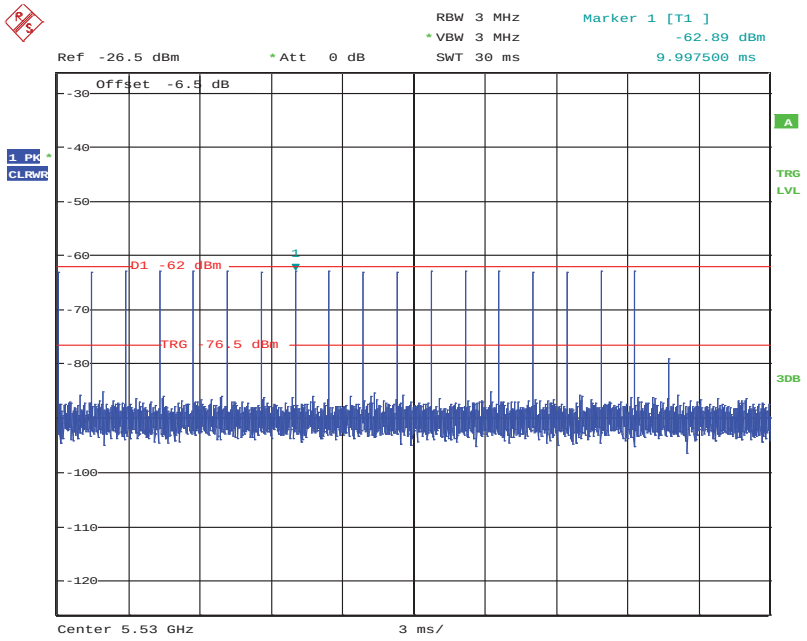
Radar Type 6



Date: 8.MAY.2017 16:23:39

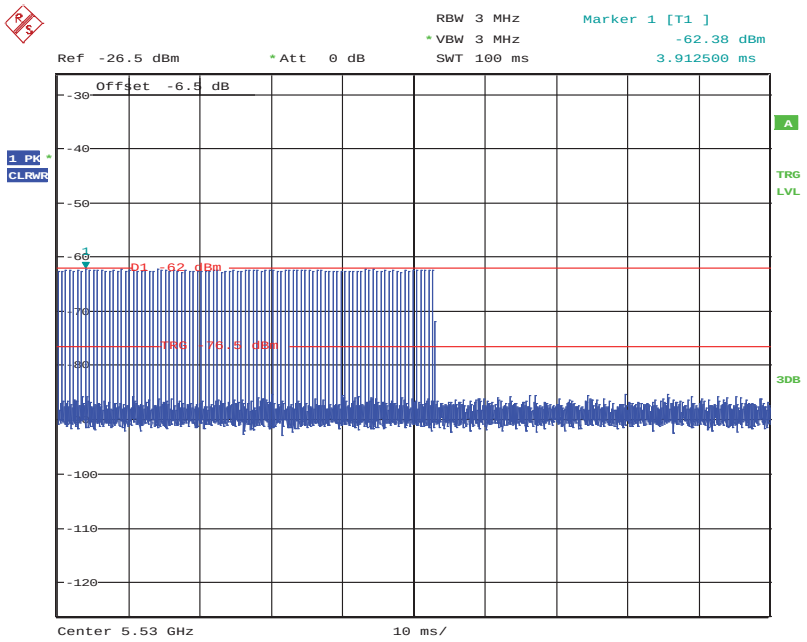
5530 MHz:

Radar Type 0



Date: 8.MAY.2017 16:13:31

Radar Type 1A



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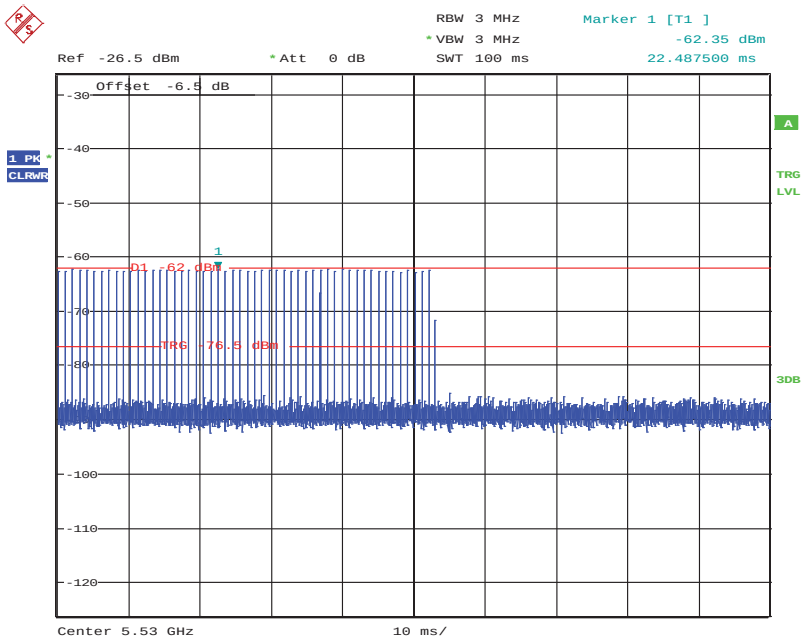
Radar Type 1B



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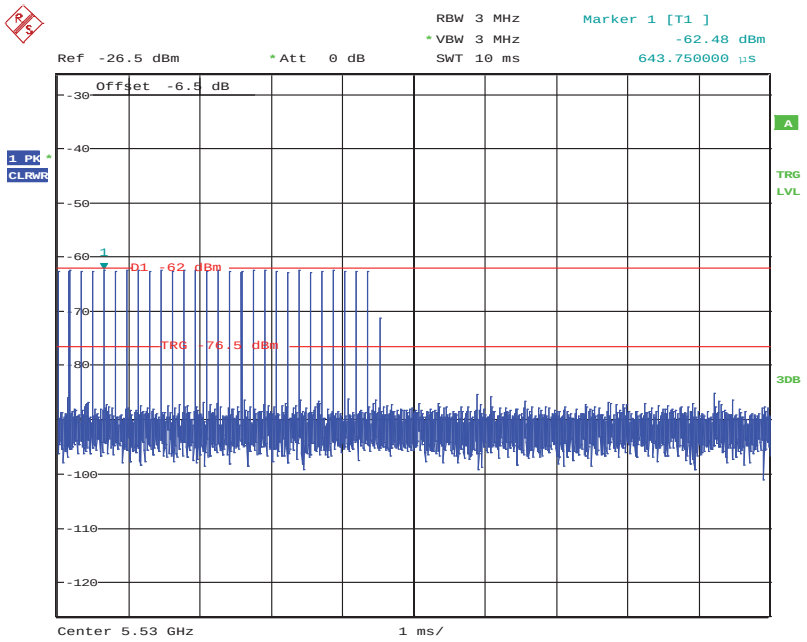
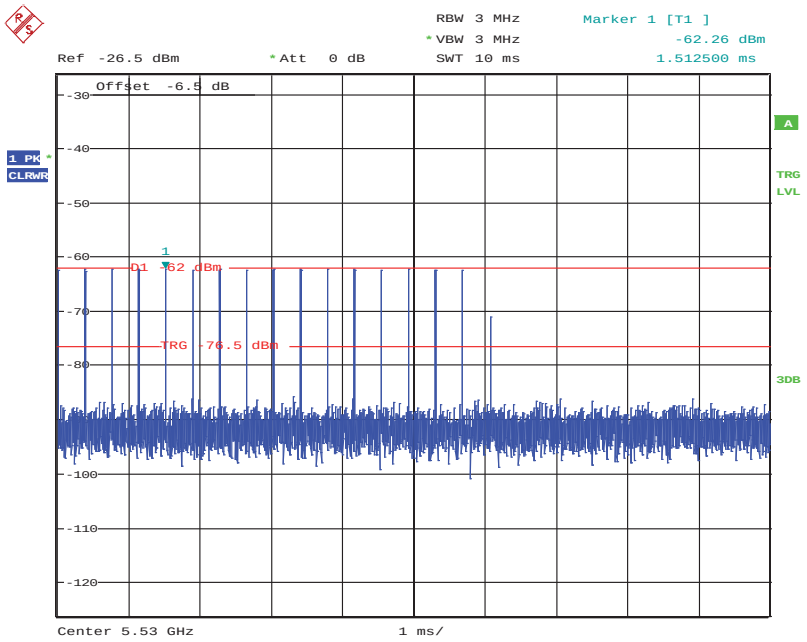
Radar Type 2



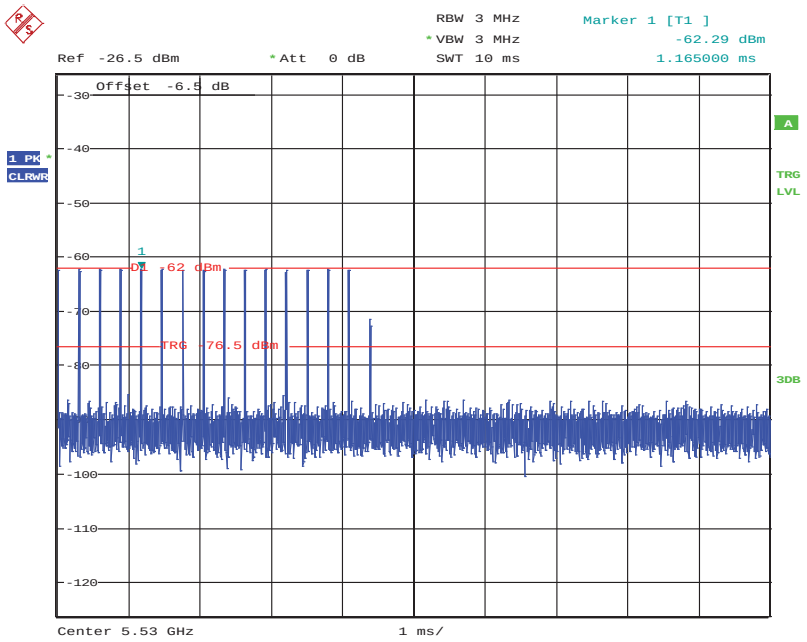
Date: 8.MAY.2017 16:18:05

Radar Type 3



Date: 8.MAY.2017 16:19:18

Radar Type 4



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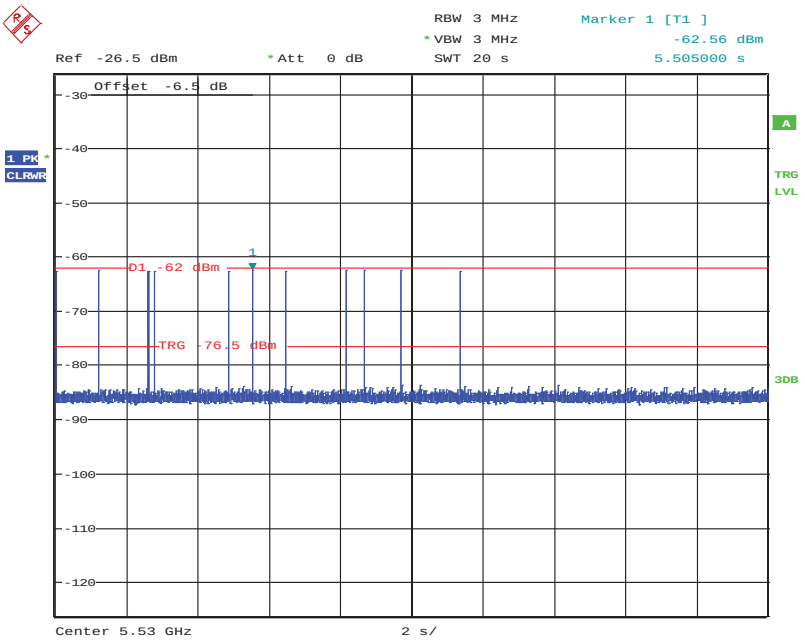
Radar Type 5



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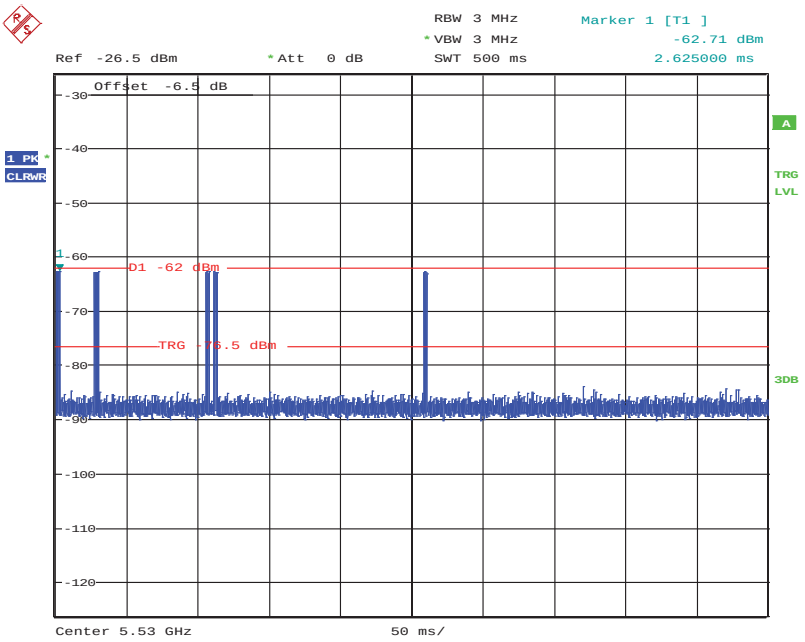
Radar Type 6



Date: 8.MAY.2017 16:23:01

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)
5290	18.48
5530	17.74

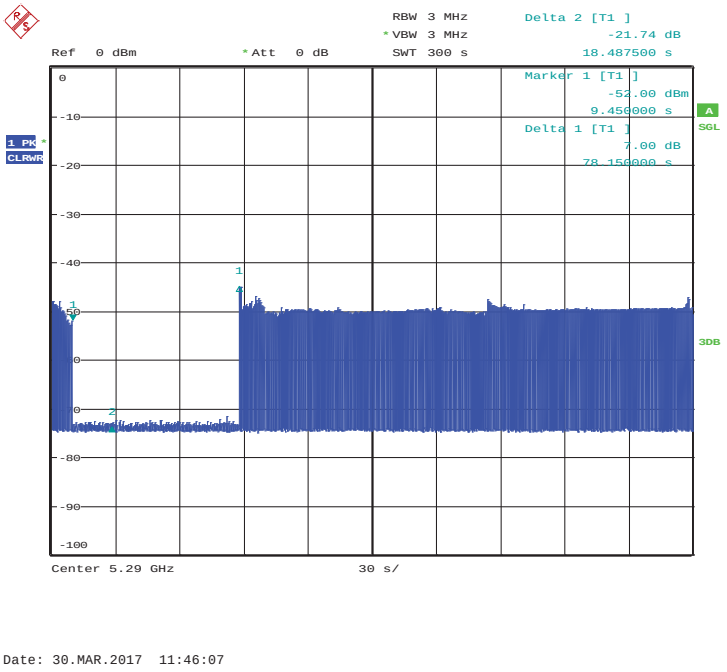
Results:

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.

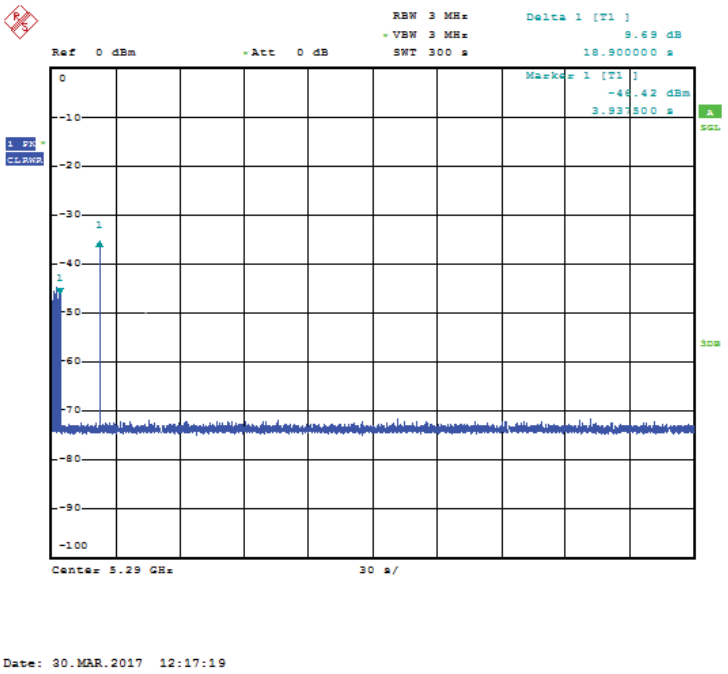
5290 MHz:

Plot of without Radar signal applied



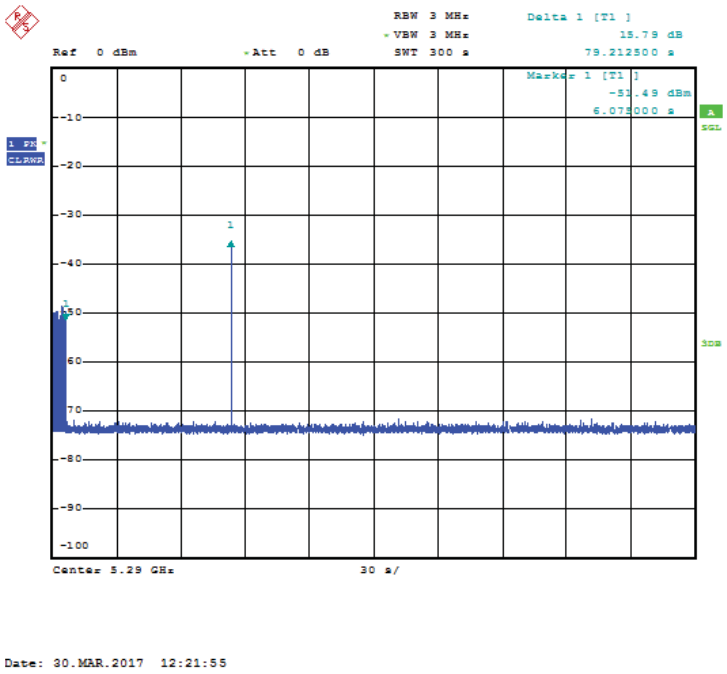
Note: The power-up cycle is 18.48 seconds.

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



No transmissions found after radar signal applied.

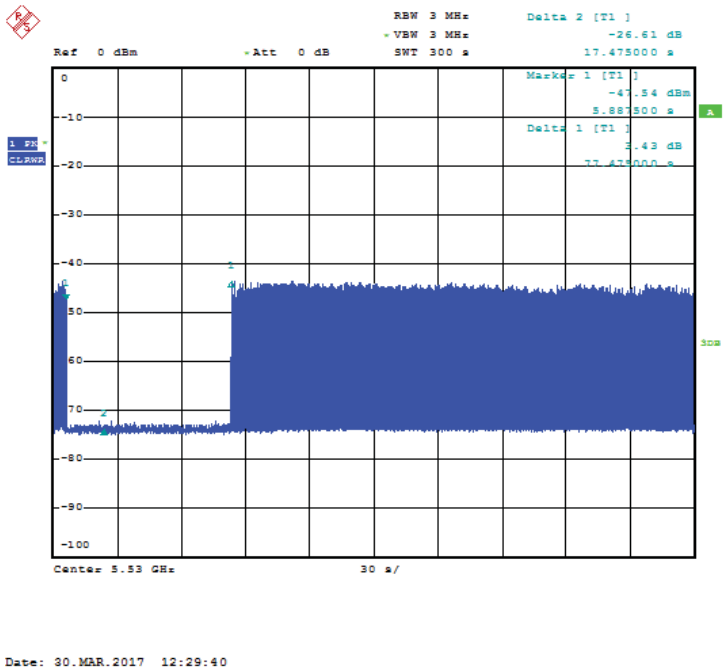
Plot of Radar signal applied at the end of 6 seconds of CAC



No transmissions found after radar signal applied.

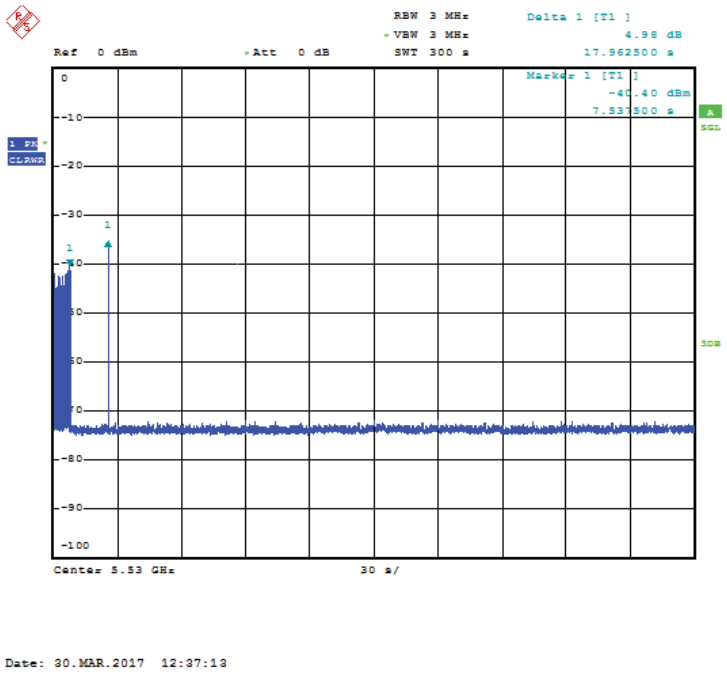
5530 MHz:

Plot of without Radar signal applied



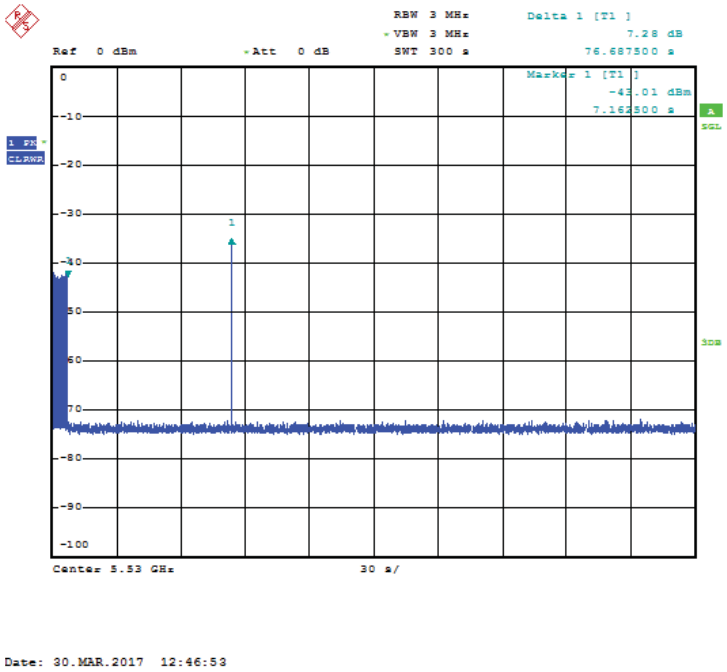
Note: The power-up cycle is 17.47 seconds.

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. 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. 8001)

Test Results

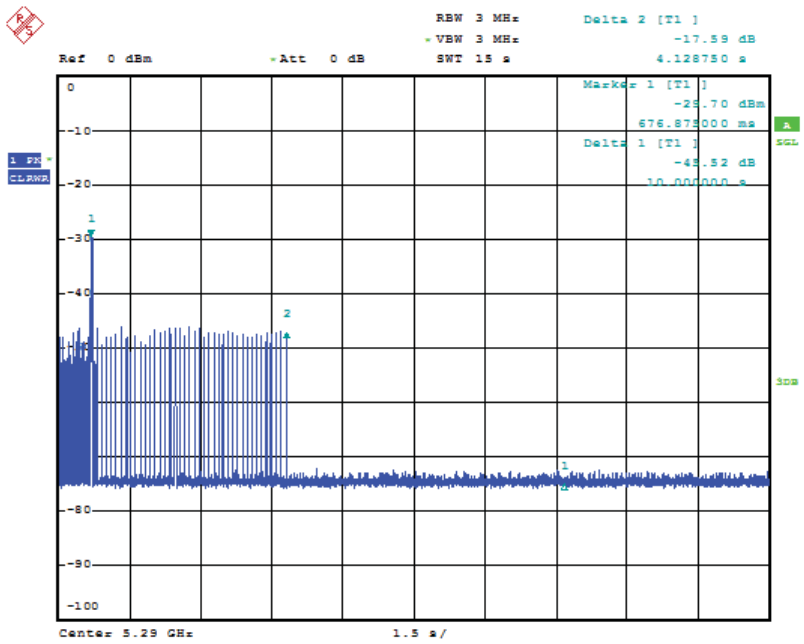
Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5290	80	Type 0	Compliant
5530	80	Type 0	Compliant

Please refer to the following tables and plots.

5290 MHz

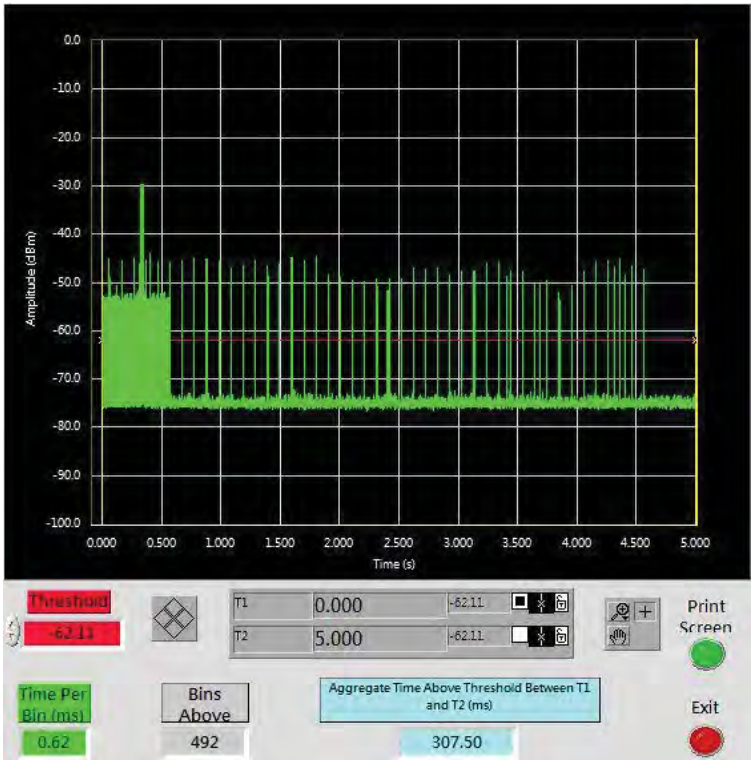
Type 0 radar channel move time result:

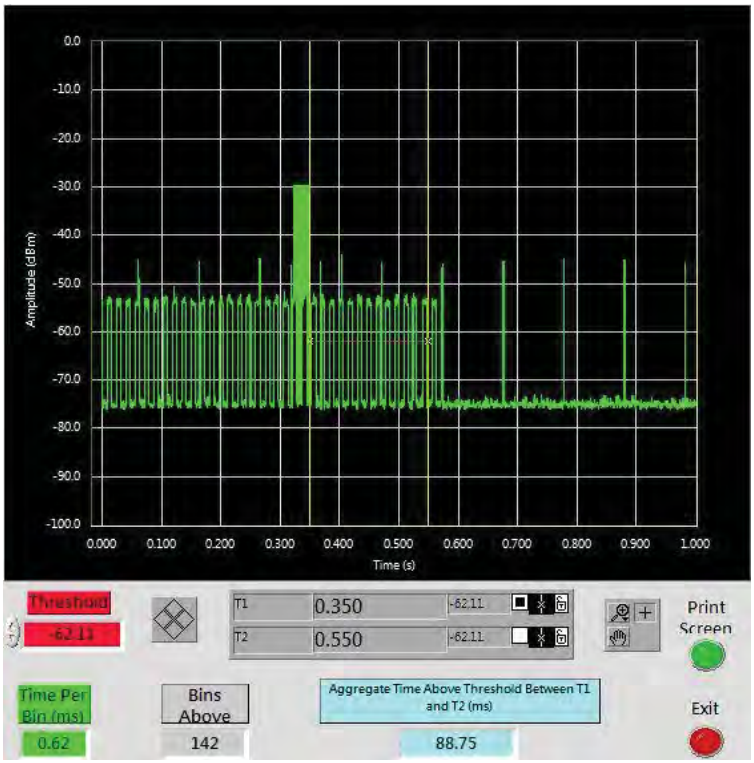
Item	Time (s)	Limit (s)
Channel move time	4.12	10

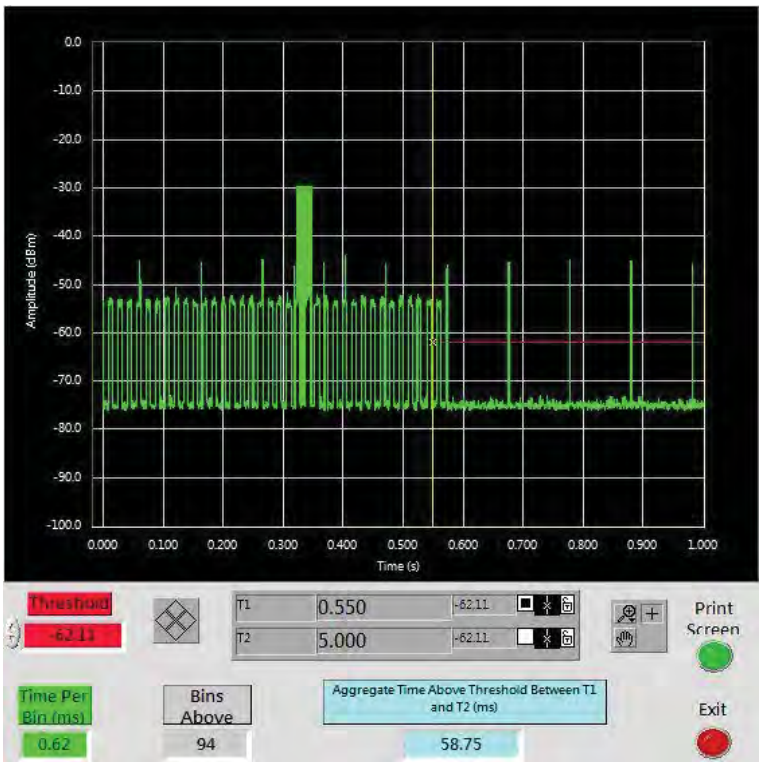


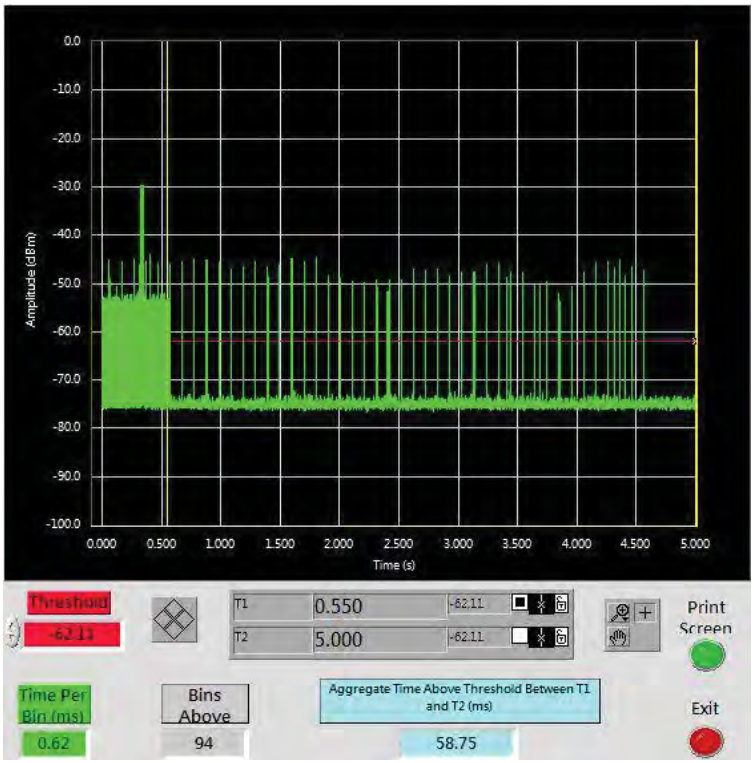
Type0 radar channel closing transmission time result:

Transmission After 200 (ms)	Aggregate Transmission Time	Limit for Aggregate Transmission Time After 200 (ms)	Result
Yes	58.75	60	Pass




Amplitude (dBm)
Time (s)
Threshold
-62.11
T1
0.350
T2
0.550
Print Screen
Time Per Bin (ms)
0.62
Bins Above
142
Aggregate Time Above Threshold Between T1 and T2 (ms)
88.75
Exit

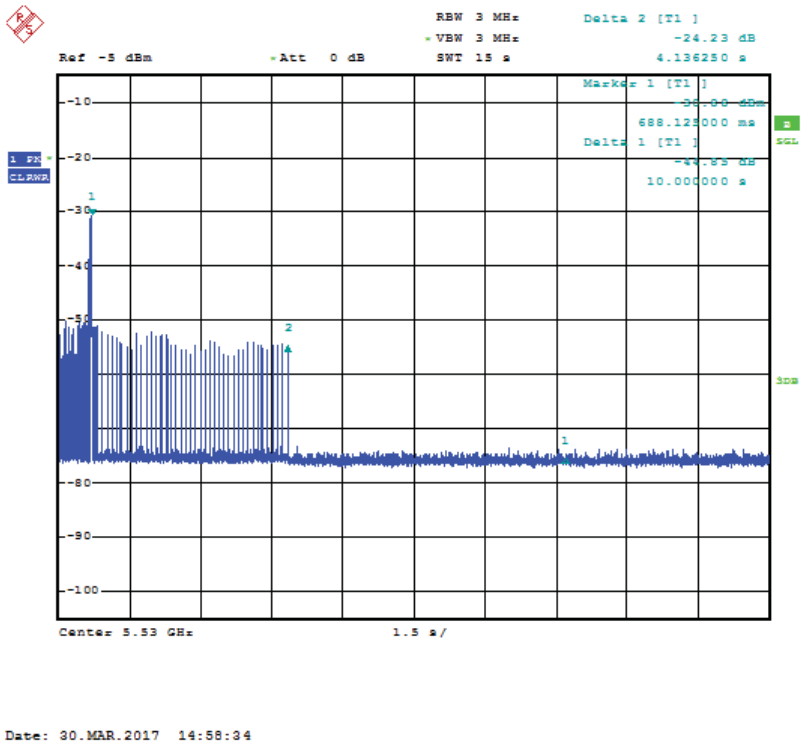

Amplitude (dBm)
Time (s)
Threshold
-62.11
T1
0.550
T2
5.000
Print Screen
Time Per Bin (ms)
0.62
Bins Above
94
Aggregate Time Above Threshold Between T1 and T2 (ms)
58.75
Exit


Amplitude (dBm)
Time (s)
Threshold
-62.11
T1
0.550
T2
5.000
Print Screen
Time Per Bin (ms)
0.62
Bins Above
94
Aggregate Time Above Threshold Between T1 and T2 (ms)
58.75
Exit

5530 MHz

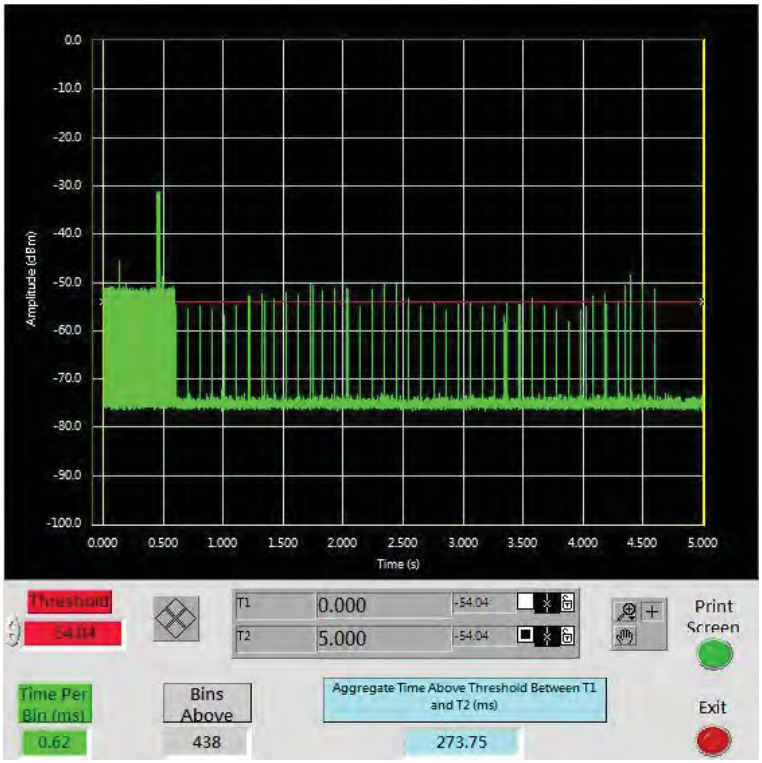
Type 0 radar channel move time result:

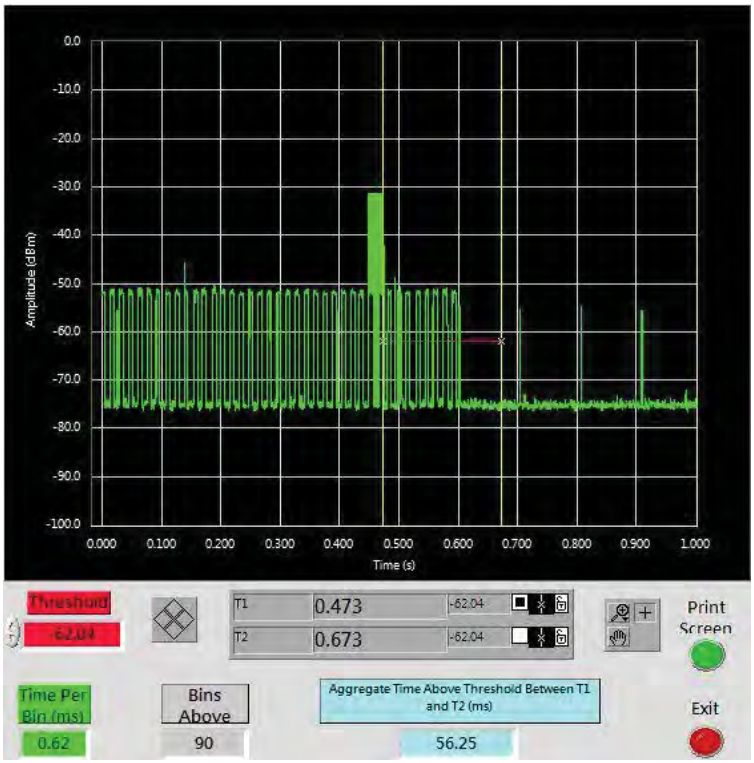
Item	Time (s)	Limit (s)
Channel move time	4.13	10

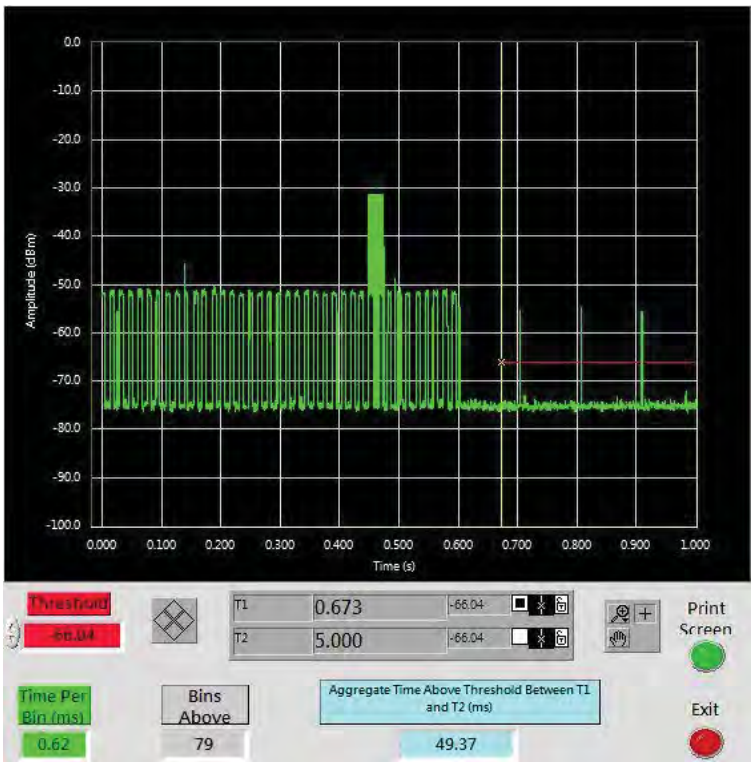


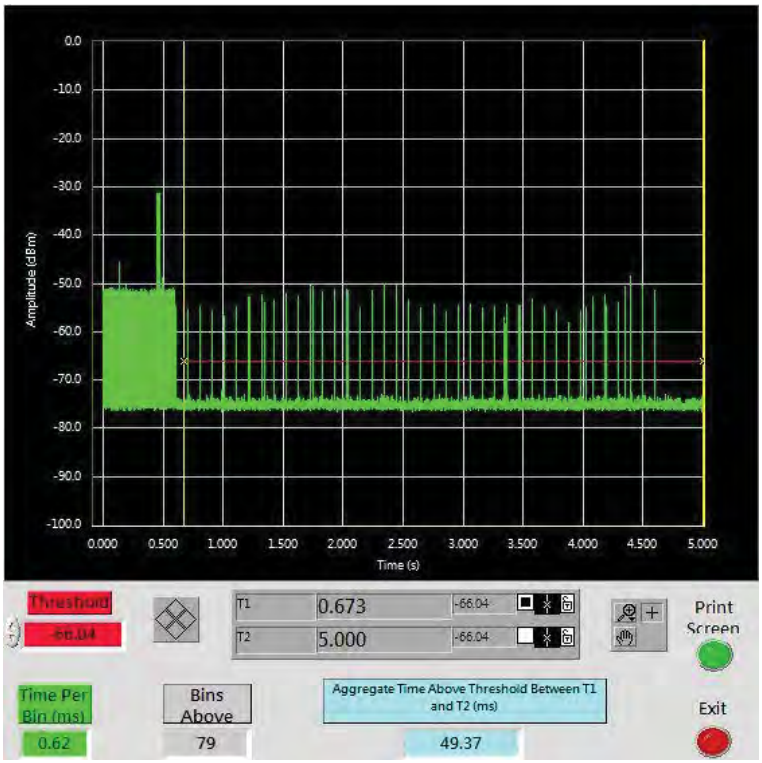
Type0 radar channel closing transmission time result:

Transmission After 200 (ms)	Aggregate Transmission Time	Limit for Aggregate Transmission Time After 200 (ms)	Result
Yes	49.37	60	Pass




Amplitude (dBm)
Time (s)
Threshold
-62.04
T1
0.473
-62.04
T2
0.673
-62.04
Print Screen
Time Per Bin (ms)
0.62
Bins Above
90
Aggregate Time Above Threshold Between T1 and T2 (ms)
56.25
Exit


Amplitude (dBm)
Time (s)
Threshold
-66.04
T1
0.673
-66.04
T2
5.000
-66.04
Print Screen
Time Per Bin (ms)
0.62
Bins Above
79
Aggregate Time Above Threshold Between T1 and T2 (ms)
49.37
Exit


Amplitude (dBm)
Time (s)
Threshold
-66.04
T1
0.673
-66.04
T2
5.000
-66.04
Print Screen
Time Per Bin (ms)
0.62
Bins Above
79
Aggregate Time Above Threshold Between T1 and T2 (ms)
49.37
Exit

NON-OCCUPANCY PERIOD

Test Procedure

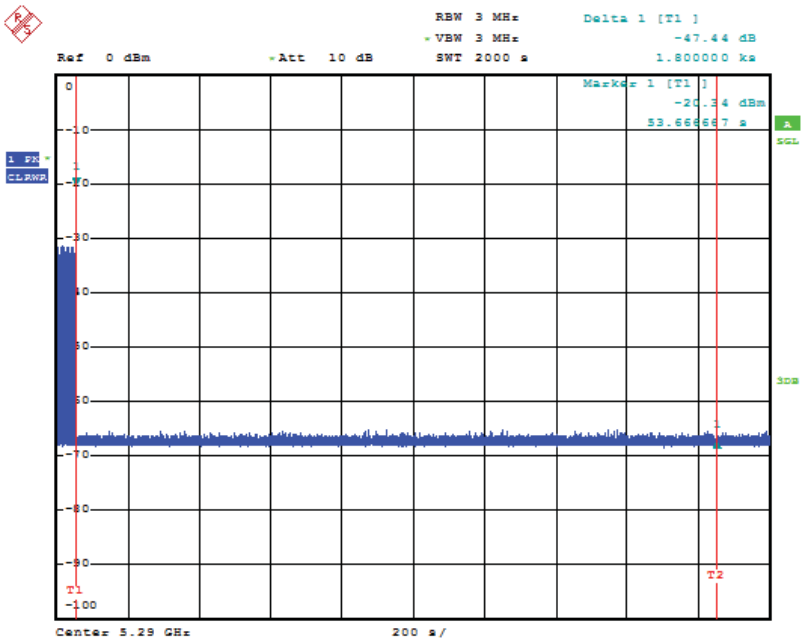
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

Test Result

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

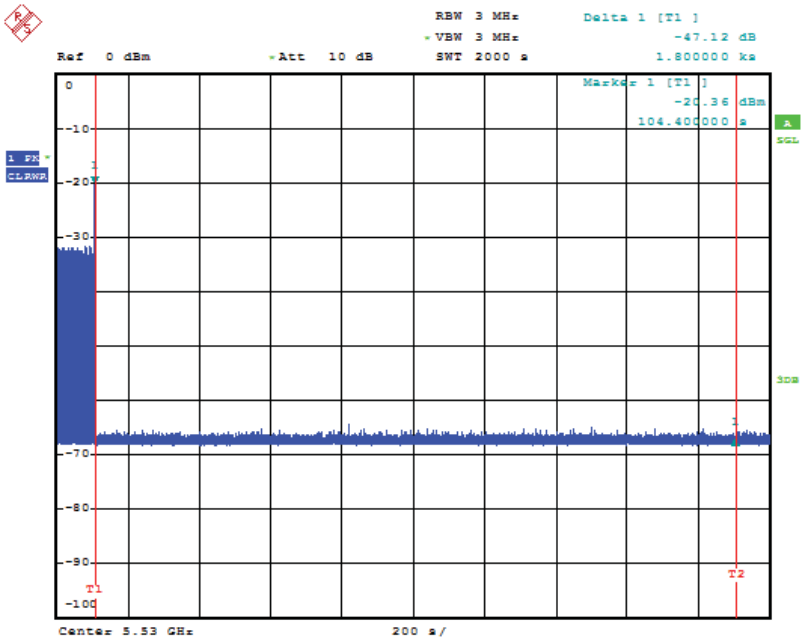
Please refer to the following plots.

5290 MHz



Date: 7.MAR.2017 18:10:43

5530 MHz



Date: 7.MAR.2017 17:21:46

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	5271	5289	20	18.22	100%	Compliance
5270	40	5252	5288	38	36.57	100%	Compliance
5290	80	5252	5328	78	76.15	100%	Compliance
5500	20	5491	5509	20	18.27	100%	Compliance
5510	40	5492	5528	38	36.57	100%	Compliance
5530	80	5492	5568	78	76.15	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	0	1	1	1	1	1	1	1	1	90 %
5290(F_H)	1	1	1	1	1	0	1	1	1	1	90 %
Detection Bandwidth = $F_H – F_L$ = 5290-5270= 20 MHz											
EUT 99% BW = 18.16 MHz;											**Result:** Pass

20MHz Bandwidth, EUT Frequency = 5500MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5491	1	1	1	1	1	1	1	1	1	1	100 %
5492	1	1	1	1	1	1	1	1	1	1	100 %
5493	1	1	1	1	1	1	1	1	1	1	100 %
5494	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5506	1	1	1	1	1	1	1	1	1	1	100 %
5507	1	1	1	1	1	1	1	1	1	1	100 %
5508	1	1	1	1	1	1	1	1	1	1	100 %
5509	1	1	1	1	1	1	1	1	1	1	100 %
5510(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H – F_L$ = 5510-5490 = 20 MHz											
EUT 99% BW = 18.16 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 (%)**
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	0	1	1	1	1	1	90 %
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(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H – F_L$ = 5289-5251 = 38 MHz											
EUT 99% BW = 36.48 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	0	1	1	1	1	1	1	1	1	90 %
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(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H – F_L$ = 5529-5491 = 38 MHz											
EUT 99% BW = 36.48 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	0	1	1	1	1	1	90 %
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 = 76.16 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(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H – F_L$ = 5569-5491 = 78MHz											
EUT 99% BW = 76.16 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	93.3%		
Type 2	30	96.7 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	86.7 %	60%	Pass
Aggregate(Type1 to 4)	120	94.19 %	80%	Pass
Type 5	30	83.3%	80%	Pass
Type 6	30	90 %	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	65	1	818	1
2	5280	62	1	858	1
3	5280	58	1	918	1
4	5280	83	1	638	1
5	5280	59	1	898	1
6	5280	72	1	738	1
7	5280	86	1	618	1
8	5280	78	1	678	1
9	5280	61	1	878	1
10	5280	89	1	598	1
11	5280	81	1	658	1
12	5280	76	1	698	1
13	5280	57	1	938	1
14	5280	68	1	778	1
15	5280	92	1	578	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	25	1	2152	1
2	5280	47	1	1127	1
3	5280	22	1	2441	1
4	5280	34	1	1560	1
5	5280	93	1	572	1
6	5280	40	1	1333	1
7	5280	29	1	1880	1
8	5280	18	1	2986	0
9	5280	92	1	576	1
10	5280	21	1	2596	1
11	5280	24	1	2293	1
12	5280	34	1	1574	1
13	5280	20	1	2738	1
14	5280	20	1	2704	1
15	5280	27	1	2023	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	28	1.1	186	1
2	5280	24	1.4	211	1
3	5280	29	3.9	211	1
4	5280	24	4.4	218	1
5	5280	23	1.2	207	1
6	5280	23	3.3	223	1
7	5280	26	4.9	183	1
8	5280	24	1.7	229	1
9	5280	28	2.8	224	1
10	5280	26	3.7	179	1
11	5280	23	1.6	153	1
12	5280	26	1.6	213	1
13	5280	29	1.1	195	1
14	5280	27	5	155	1
15	5280	24	4.9	202	1
16	5280	26	4.8	226	1
17	5280	25	4.6	220	1
18	5280	27	4.4	217	1
19	5280	26	3	217	1
20	5280	25	4.3	206	1
21	5280	28	1.4	162	1
22	5280	24	4.3	160	1
23	5280	27	2	169	1
24	5280	23	2.1	226	1
25	5280	29	2.3	204	1
26	5280	27	1.2	174	1
27	5280	23	4.1	206	1
28	5280	23	4.6	173	0
29	5280	27	4.8	210	1
30	5280	27	4.5	218	1
Detection Percentage: 96.7 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	18	9.7	298	1
2	5280	18	7.6	496	1
3	5280	17	7	326	1
4	5280	18	8.6	260	1
5	5280	16	8.9	393	1
6	5280	16	8	265	1
7	5280	17	8.6	238	1
8	5280	18	8.6	305	1
9	5280	16	6	395	1
10	5280	18	7.1	212	1
11	5280	16	8.7	291	1
12	5280	18	7.1	252	1
13	5280	17	8.2	409	1
14	5280	17	9	247	1
15	5280	17	9.8	420	1
16	5280	16	7	394	1
17	5280	17	8.3	472	1
18	5280	17	8.5	404	1
19	5280	17	6	359	1
20	5280	18	9.6	294	1
21	5280	17	9.9	371	1
22	5280	16	6.8	417	1
23	5280	16	9.3	347	1
24	5280	16	9.3	235	1
25	5280	18	6.2	399	1
26	5280	16	8.6	367	1
27	5280	17	9.3	314	1
28	5280	16	7.2	260	0
29	5280	18	8.2	263	1
30	5280	16	6.3	313	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	16	11.4	450	1
2	5280	15	18.8	211	1
3	5280	13	16.3	205	1
4	5280	12	13.2	253	0
5	5280	16	13.3	321	1
6	5280	14	17.9	421	1
7	5280	12	11	440	1
8	5280	14	16.4	450	0
9	5280	16	20	288	1
10	5280	15	14.7	286	1
11	5280	15	15.4	453	1
12	5280	14	15.1	433	0
13	5280	12	11.5	470	1
14	5280	14	12.9	215	1
15	5280	13	12.2	418	1
16	5280	12	15	472	1
17	5280	15	11.1	435	1
18	5280	13	12.9	282	1
19	5280	16	15.6	466	1
20	5280	12	17.7	306	1
21	5280	15	13.4	399	1
22	5280	13	16.1	275	1
23	5280	13	17.4	417	1
24	5280	15	11.5	329	1
25	5280	12	11.5	226	1
26	5280	14	13.4	319	1
27	5280	15	17.9	245	1
28	5280	13	17.9	428	0
29	5280	16	16.4	323	1
30	5280	13	13.6	476	1
Detection Percentage: 86.7 % (>60%)					

Radar Type 5 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5280MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	81.3	7			527.35	1
2	11	72.8	7	1463	1077	410.581	
3	11	82.6	7	1109		197.462	
4	11	57.3	7	1906		25.713	
5	11	84.7	7	1201		670.664	
6	11	69.6	7	1612		825.335	
7	11	76.3	7			15.315	
8	11	82.7	7	1481	923	1044.716	
9	11	92.8	7	1335		361.917	
10	11	87.7	7	1760		382.918	
11	11	52.6	7			667.909	

Statistics 2 (ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	59.6	6	1729		30.275	1
2	14	62	6	1754	1213	681.867	
3	14	90	6	1449		611.244	
4	14	97.4	6	1798		368.281	
5	14	62.2	6	1175	1488	194.439	
6	14	78.6	6	974		488.066	
7	14	53	6	1677		795.833	
8	14	86.3	6			16.9	
9	14	74	6			834.897	
10	14	86.7	6			305.684	
11	14	54.7	6	1369		595.481	
12	14	50.4	6	1559		374.529	
13	14	71.2	6	1572	1866	599.686	
14	14	93.8	6			814.343	

Statistics 3 (ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	73.6	6	1620		256.855	1
2	14	55.5	6	1059	1925	696.607	
3	14	95.3	6	917		655.734	
4	14	93.5	6	1671	1021	745.251	
5	14	81	6			393.429	
6	14	82.5	6	1410	1147	480.526	
7	14	88.9	6			309.953	
8	14	63.1	6	1203		399.98	
9	14	80.3	6	1431		20.887	
10	14	51.2	6	1472	1417	33.534	
11	14	85.1	6			411.591	
12	14	67.1	6	1263		437.539	
13	14	88.5	6	1365	1381	517.086	
14	14	65.4	6			293.943	

Statistics 4 (ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	70.4	5	1883	1336	606.971	1
2	19	67	5	1140		350.193	
3	19	72.2	5	1631		380.002	
4	19	88.2	5	1700		101.333	
5	19	81	5	1259		82.124	
6	19	79.8	5	1482	1645	95.215	
7	19	83.1	5	1111		256.166	
8	19	88.2	5	1582		134.167	
9	19	76.5	5	1743		466.728	
10	19	99.8	5	1517		575.759	
11	19	81.9	5	1227		385.341	
12	19	68.3	5			264.502	
13	19	68.5	5			344.443	
14	19	55.7	5	1659	1130	463.364	
15	19	83.1	5	1461		424.825	
16	19	72.1	5	1728	1346	278.916	
17	19	93	5	1529	998	357.437	
18	19	74.8	5	1630		233.158	
19	19	90.5	5	1402		201.979	

Statistics 5(ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	90.3	5	1413	1693	579.697	0
2	13	95.5	5	1590	1902	903.023	
3	13	91	5	911		226.566	
4	13	70.1	5	1221		502.159	
5	13	52.2	5	1314		19.102	
6	13	69.8	5	1298		580.225	
7	13	91.4	5			512.258	
8	13	59.1	5			463.512	
9	13	91.7	5	1821		229.285	
10	13	90.4	5			64.668	
11	13	63.8	5	1576		248.421	
12	13	88.2	5	1439		850.754	
13	13	82.6	5	1523	1220	607.777	

Statistics 6 (ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	62.5	5	1768		91.276	1
2	17	57.9	5	1883		586.568	
3	17	78	5	1522		646.585	
4	17	97.6	5	1834		649.903	
5	17	90	5	1240	1767	674.221	
6	17	96.2	5	1355		328.568	
7	17	57.3	5	1189		469.816	
8	17	77.2	5	1456		524.814	
9	17	69.3	5	1340	930	689.371	
10	17	58.3	5	1239	1914	85.149	
11	17	94.6	5			526.186	
12	17	55.6	5			648.374	
13	17	70.7	5	1925	1147	653.982	
14	17	54.4	5	1175	1186	87.519	
15	17	56.6	5	1688	1323	321.747	
16	17	86.2	5	1837		269.265	
17	17	80.9	5	1544	931	295.782	

Statistics 7(ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	65.7	5	1707	1246	643.615	1
2	12	76.8	5	1617	1418	609.72	
3	12	64.8	5	968	1438	3.46	
4	12	91.2	5			353.68	
5	12	85.2	5	1558		142.1	
6	12	70.5	5	1544	1167	516.34	
7	12	51.1	5			458.27	
8	12	96	5	1727		730.37	
9	12	83.2	5	1028	1492	699.95	
10	12	50.9	5			712.04	
11	12	68.8	5	1294		243.6	
12	12	92.4	5	1532		474.3	

Statistics 8 (ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.5	6	1402	1262	660.483	0
2	15	52	6	1212		309.68	
3	15	61.1	6	1227		43.31	
4	15	88.8	6			770.69	
5	15	70.4	6			430.91	
6	15	60.9	6			727.54	
7	15	89	6	1719	1608	99	
8	15	50.5	6	1458	1547	180.85	
9	15	93	6	1608	1027	316.24	
10	15	53.9	6	1117		684.43	
11	15	69.9	6	1593	1917	134.61	
12	15	94.1	6	1296	1157	68.42	
13	15	51.4	6	1808		776.7	
14	15	88.8	6	1530		105.6	
15	15	56.2	6	1298		407	

Statistics 9 (ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	55.1	6	1932		447.874	
2	17	76.8	6	1820	1599	128.997	
3	17	80.4	6	1538		455.845	
4	17	64.5	6	1691	1250	318.453	
5	17	64.7	6	998	1144	601.861	
6	17	79	6	1063		621.738	
7	17	60	6			529.346	
8	17	83.7	6	1528		681.324	
9	17	92.4	6			452.121	1
10	17	73.5	6	1185	1509	590.469	
11	17	92.6	6			420.516	
12	17	69.5	6	1298		21.834	
13	17	80.2	6	1334	1576	315.922	
14	17	51.7	6	1168		275.269	
15	17	62.4	6	1910	1194	56.517	
16	17	88.6	6	1903		29.465	
17	17	74.1	6	1662		370.182	

Statistics 10 (ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	99.6	5	1178	1748	236.527	
2	15	64.4	5	988	1046	596.61	
3	15	54.2	5	1195		780.78	
4	15	83.1	5			483.01	
5	15	89.2	5			11.72	
6	15	80.3	5	1565		266.47	
7	15	63	5	1791		51	
8	15	71.3	5			270.13	1
9	15	76.2	5	1323		233.09	
10	15	94.3	5	1160	1621	296.79	
11	15	87.7	5	1626	1864	400.54	
12	15	88.1	5			317.2	
13	15	56.9	5	1078		543.8	
14	15	53.6	5			90.4	
15	15	65.4	5	1803		762.5	

Statistics 11 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	51.7	5	1861	1272	161.026	0
2	20	60.1	5	1494	1053	259.958	
3	20	71.8	5	1209	1810	486.18	
4	20	60.7	5	1762	1522	513.68	
5	20	87.2	5	916	926	99.99	
6	20	85.2	5	951		565.23	
7	20	97.8	5	1402		209.79	
8	20	60.4	5			188.07	
9	20	93.5	5	1484		307.82	
10	20	89.4	5			226.68	
11	20	72	5	1073	1044	405.28	
12	20	50.6	5	981		212.33	
13	20	59.6	5	1542		252.04	
14	20	81.8	5	1151		87.94	
15	20	79.1	5			254.21	
16	20	83.8	5	1565	1240	86.77	
17	20	55.3	5	1470		587.4	
18	20	92.9	5			265.3	
19	20	52.6	5	1450		64.7	
20	20	79.8	5	1240	1349	24.7	

Statistics 12 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	80.9	5	1657		562.762	1
2	20	59.1	5	1489		487.36	
3	20	80.5	5	1208	1121	197.51	
4	20	92.5	5	1518	1620	580.4	
5	20	61.7	5	1018		159.72	
6	20	78.4	5	1100	1656	234.55	
7	20	88.5	5	1092		129.34	
8	20	77.9	5	1797		172.22	
9	20	79.3	5	1042		474.53	
10	20	96.3	5			58.61	
11	20	74.8	5	1618	1155	37.18	
12	20	58.7	5			560.52	
13	20	59.6	5	1484		542.48	
14	20	60.2	5	1617		276.43	
15	20	50.5	5			388.61	
16	20	88.9	5			108.44	
17	20	87.7	5	1715		95.06	
18	20	68	5			52.5	
19	20	52.3	5			367	
20	20	57.8	5	1714		483.2	

Statistics 13 (ChirpCenter Frequency: 5273.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	83.9	7			306.702	1
2	18	82.6	7			130.713	
3	18	84	7	1576		269.837	
4	18	64.4	7	1409	1382	245.7	
5	18	61.8	7			72.973	
6	18	65.2	7	1911	1175	235.297	
7	18	90.8	7	1509		158.85	
8	18	82.1	7	1643	1764	601.853	
9	18	83.1	7			75.617	
10	18	81.6	7			168.4	
11	18	68.1	7	1351		466.183	
12	18	79.5	7			347.027	
13	18	84.3	7	1039		612.24	
14	18	88.8	7			166.273	
15	18	73.8	7	1760	1756	659.807	
16	18	86.2	7	1903		592.3	
17	18	79.3	7			533.033	
18	18	57.6	7	1905		444.767	

Statistics 14 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	69.8	5	1469		507.244	1
2	15	96.7	5	1713		145.971	
3	15	54.8	5	1583	1924	343.02	
4	15	59.2	5	947	1847	226.34	
5	15	76.3	5	1119	1584	365.73	
6	15	96.2	5	1292	1298	656.28	
7	15	99.5	5	1052	1650	667.67	
8	15	82.5	5	1625	1555	136.26	
9	15	85.9	5			786.75	
10	15	78.7	5	1616		536.22	
11	15	73.3	5			456.62	
12	15	73.2	5	1851		22.87	
13	15	86.9	5	920		570.1	
14	15	70.3	5	1843		338	
15	15	55.3	5	1826		401.6	

Statistics 15 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	74.6	5	1375		355.44	
2	19	91.7	5	1603		229.659	
3	19	69.5	5	1767	1426	615.242	
4	19	74.7	5	1757		286.993	
5	19	55.4	5	1197		177.854	
6	19	67.1	5			235.825	
7	19	68.9	5	1473	1181	518.836	
8	19	53.7	5			95.017	
9	19	82.4	5	1470	1704	384.978	
10	19	96.4	5	1594	981	132.059	1
11	19	93.7	5	1260	1250	223.621	
12	19	82.4	5	927		77.282	
13	19	73.8	5	1164	1791	111.973	
14	19	98	5	1680		565.424	
15	19	52.2	5	1700		177.235	
16	19	60.8	5	1397		243.286	
17	19	61.6	5	1768		532.737	
18	19	96.8	5	1345		144.258	
19	19	64	5	984	959	40.379	

Statistics 16 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	97.3	6	1334		256.425	1
2	13	73.1	6	1805		499.423	
3	13	70.1	6			297.286	
4	13	78.9	6			57.059	
5	13	62	6	1752	1599	186.182	
6	13	98.5	6	1144	1431	589.225	
7	13	84	6	1445	1454	800.838	
8	13	63.5	6	1536	1115	302.432	
9	13	71.3	6	1637		913.975	
10	13	90.5	6	1361		132.078	
11	13	73	6	1194	1613	519.651	
12	13	83.9	6	1277		56.654	
13	13	71.3	6	1596		778.577	

Statistics 17 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	61	5			297.054	1
2	18	83.7	5	1893		441.633	
3	18	60.4	5	1433		447.077	
4	18	88.9	5	1571		191.02	
5	18	51.8	5	1092		70.923	
6	18	83.5	5			473.297	
7	18	60.9	5	1390		94.95	
8	18	57.3	5	1243		88.843	
9	18	93.3	5	1523		219.407	
10	18	83.5	5	1629	1022	112.55	
11	18	85.9	5			583.103	
12	18	53.9	5	1488		536.507	
13	18	93.9	5			177.87	
14	18	70.5	5			433.163	
15	18	72.3	5	1334		374.307	
16	18	91.7	5			478.5	
17	18	88.6	5	1076	1883	633.333	
18	18	68.1	5	1168	1240	434.967	

Statistics 18 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	82.5	6			553.072	0
2	15	50	6	1464	988	447.07	
3	15	65.9	6	1601		448.2	
4	15	52.9	6	1275	1854	705.02	
5	15	63.8	6	1828	1255	751.07	
6	15	99	6	1533	1721	141.3	
7	15	70	6	1121	1003	406.91	
8	15	69.6	6	1173		342.93	
9	15	91.1	6	1566		719.53	
10	15	64	6			418.19	
11	15	91.9	6			374.03	
12	15	54.7	6	1328		108.97	
13	15	83	6	1609		544.7	
14	15	80.5	6			228.3	
15	15	75.9	6	1625	1803	663	

Statistics 19 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	54.4	5			459.028	0
2	19	94.1	5			108.929	
3	19	75.7	5	1648		426.402	
4	19	68.4	5	1024	1824	576.153	
5	19	83	5	1113	1521	503.334	
6	19	60.2	5	1918	1074	592.855	
7	19	54.9	5	1705		30.716	
8	19	85.4	5	1336		57.297	
9	19	99.3	5			253.958	
10	19	97.3	5	1293	1629	353.369	
11	19	82.5	5	1367		520.181	
12	19	55.7	5	1496		260.852	
13	19	65.5	5	1620	1188	64.143	
14	19	61.9	5	1730		198.284	
15	19	92.7	5	1776	1859	305.215	
16	19	78.9	5	1166	1029	353.016	
17	19	86.4	5	1007	1497	411.637	
18	19	80.8	5	1537		386.758	
19	19	86.9	5	1090		512.579	

Statistics 20 (ChirpCenter Frequency: 5273 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	84.4	5	1730		177.565	1
2	11	75.3	5	1354		140.831	
3	11	94.7	5	1024		241.902	
4	11	51.9	5			199.483	
5	11	80.6	5	974		536.604	
6	11	60.8	5			66.335	
7	11	75	5			810.375	
8	11	74.4	5	1422	1633	944.706	
9	11	92.9	5	1708		1026.727	
10	11	66.9	5	944	1893	476.418	
11	11	79.9	5	1125		578.209	

Statistics 21 (ChirpCenter Frequency: 5286.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	97.3	6			458.123	1
2	18	61.1	6	1217		17.92	
3	18	80.6	6	1774		390.567	
4	18	64.7	6	1321	1827	402.03	
5	18	94.4	6	1688		102.873	
6	18	91.2	6	1247		20.697	
7	18	68.9	6	1102		524.29	
8	18	74.6	6	1609		84.373	
9	18	74.7	6	1227	1531	206.127	
10	18	82.6	6	1525		285.98	
11	18	81.3	6	1314		105.063	
12	18	66.6	6	1577		118.627	
13	18	86.5	6	1167	1406	422.32	
14	18	62.8	6	1919		4.333	
15	18	82.2	6	1127		150.757	
16	18	79.4	6	1452		385.7	
17	18	91.7	6			160.033	
18	18	92.5	6	1497	1571	418.467	

Statistics 22 (ChirpCenter Frequency: 5286.2 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	73.2	7	1332	1061	119.741	0
2	12	78.4	7	1401		592.27	
3	12	93.8	7			907.17	
4	12	80.5	7			294.54	
5	12	82.4	7	1415		277.74	
6	12	90.7	7	1899	1644	716.23	
7	12	56.9	7			304.14	
8	12	73.6	7	1191		372.72	
9	12	62.4	7			518.42	
10	12	98.7	7	1175	1306	453.67	
11	12	77.4	7	1266	1636	913.3	
12	12	82.7	7	1703		180.9	

Statistics 23 (ChirpCenter Frequency: 5286.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	66.6	6	1520	1572	25.653	1
2	15	78.3	6	1852		697.36	
3	15	75.2	6	1365	1829	123.48	
4	15	69	6	1302		262.33	
5	15	69.1	6			307.33	
6	15	83.7	6	1750	1075	661.38	
7	15	59.5	6	998		80.48	
8	15	88	6			700.09	
9	15	93.3	6			599.81	
10	15	51.6	6	1814	1223	239.02	
11	15	87.6	6	1745	1646	273.36	
12	15	50.2	6	1043		631.01	
13	15	76.5	6			622.9	
14	15	95.3	6	1815	1679	192.7	
15	15	53.3	6	1621		214.9	

Statistics 24 (ChirpCenter Frequency: 5287 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	90.9	5	1357	1274	242.421	1
2	19	55.5	5			478.681	
3	19	56	5			287.442	
4	19	66.3	5			117.423	
5	19	76.5	5			509.794	
6	19	68.1	5	1134	1478	496.275	
7	19	67.3	5	1484		345.666	
8	19	80	5			416.117	
9	19	77.1	5	1402		475.138	
10	19	71	5			49.539	
11	19	73	5	1402	1659	118.371	
12	19	53	5			296.112	
13	19	53.3	5	1158	1319	244.913	
14	19	82.3	5	1269	1598	279.014	
15	19	80.1	5	1803		125.335	
16	19	97.6	5	1496	1099	369.756	
17	19	80.2	5	1030	1036	393.837	
18	19	91.6	5	1290		53.358	
19	19	59.4	5	1453	1496	553.879	

Statistics 25 (ChirpCenter Frequency: 5287 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	62.3	5			513.765	1
2	16	66.7	5	1005	1547	395.91	
3	16	93.7	5	1904		46.75	
4	16	66.1	5	1828		587.25	
5	16	81.7	5	1178		259.23	
6	16	96.5	5			636.66	
7	16	68	5	1368		295.39	
8	16	72	5			662.29	
9	16	89.7	5			347.87	
10	16	53.7	5			118.81	
11	16	57.2	5	1477	1625	640.78	
12	16	75.1	5	1712		637.89	
13	16	72.3	5	969		656.01	
14	16	61.7	5	1454	1731	133.31	
15	16	78.8	5	1501		349.9	
16	16	62.6	5	1104		222.8	

Statistics 26 (ChirpCenter Frequency: 5287 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	53.5	5	1864		361.909	1
2	18	90.3	5	1884	1635	94.562	
3	18	90.8	5	1799	1234	477.417	
4	18	67.2	5	1420	1883	179.35	
5	18	68.6	5			129.343	
6	18	57.8	5	1446		21.577	
7	18	61.9	5	1812		591.39	
8	18	53.5	5	1602		363.313	
9	18	71.1	5	1850	1730	172.547	
10	18	86.7	5	1255	1714	97.23	
11	18	87.4	5	1813		129.583	
12	18	65.9	5	1486		313.197	
13	18	94.8	5	1327		46.11	
14	18	74.4	5	1728		601.613	
15	18	76.3	5	1427		68.447	
16	18	75.7	5	1545	1384	31.1	
17	18	68.3	5	1187		261.133	
18	18	88.4	5	1165		543.867	

Statistics 27 (ChirpCenter Frequency: 5287 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	94.8	5			71.018	0
2	15	92.4	5			374.62	
3	15	82.4	5	1310	923	172.44	
4	15	59.9	5	1729		756.92	
5	15	69.7	5			188.28	
6	15	51.8	5	1908	1336	581.96	
7	15	82.2	5	1531	1219	63.38	
8	15	92.4	5	1182		315.55	
9	15	67.3	5	1671		412.58	
10	15	65.9	5	1497		528.25	
11	15	86.9	5	1823		394.38	
12	15	77.7	5			646.53	
13	15	89.2	5	1149	1882	438	
14	15	81.3	5	1454		363.4	
15	15	61.8	5	1119		628.1	

Statistics 28 (ChirpCenter Frequency: 5286.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.3	6	1357		116.045	1
2	15	53.3	6			290.82	
3	15	78.5	6	1635	962	427.99	
4	15	62.9	6			119.42	
5	15	85.8	6	1479	1621	624.72	
6	15	82.9	6	1627		787.89	
7	15	89.3	6	1490	1434	48.6	
8	15	53.3	6	1740		511.01	
9	15	94.4	6	1481		267.44	
10	15	62.4	6	1512		591.08	
11	15	52.5	6			653.11	
12	15	51.8	6	1089		396.64	
13	15	96.3	6	1899		468.1	
14	15	71.4	6	1329		67.8	
15	15	53.4	6	1669	1386	640.3	

Statistics 29 (ChirpCenter Frequency: 5287 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	93.9	5	1327		10.057	0
2	18	94.4	5	1035		578.453	
3	18	66.4	5	1689		239.867	
4	18	60.1	5	1377		470.83	
5	18	89	5			205.903	
6	18	71.7	5	1336	1020	632.377	
7	18	75.5	5			326.87	
8	18	51.8	5	1314		568.403	
9	18	57.9	5			445.687	
10	18	61.2	5	1511		362.23	
11	18	61.9	5	1394		347.893	
12	18	88	5	1435		581.917	
13	18	99.6	5	1427	1455	384.42	
14	18	52.4	5	1617	1148	276.123	
15	18	83.2	5			553.187	
16	18	74.7	5	1168	1245	336.6	
17	18	53.6	5	952		53.933	
18	18	93.4	5	1116		184.867	

Statistics 30 (ChirpCenter Frequency: 5285.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	52.5	8	1096	1130	457.955	0
2	16	65.2	8			573.43	
3	16	51.5	8	1801		366.79	
4	16	84.5	8	1762	1172	689.78	
5	16	90.6	8	1109		565.93	
6	16	92.9	8	1279		391.78	
7	16	66.5	8	936		592.18	
8	16	87.1	8	1487		449.89	
9	16	76.3	8	1743	1874	163.98	
10	16	62.3	8	1168		607	
11	16	54.9	8			92.58	
12	16	83.5	8	1697		425.37	
13	16	92	8	1579		420.9	
14	16	82.9	8	1182		551.9	
15	16	72.9	8	1288	1018	689	
16	16	62.1	8			100	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5280	9	1	333	1	5251.0, 5665.0, 5373.0, 5390.0, 5657.0, 5536.0, 5324.0, 5455.0, 5434.0, 5656.0, 5471.0, 5380.0, 5644.0, 5349.0, 5260.0, 5705.0, 5491.0, 5537.0, 5486.0, 5586.0, 5653.0, 5548.0, 5560.0, 5272.0, 5322.0, 5583.0, 5267.0, 5270.0, 5517.0, 5590.0, 5620.0, 5697.0, 5359.0, 5446.0, 5381.0, 5394.0, 5382.0, 5325.0, 5687.0, 5441.0, 5650.0, 5389.0, 5483.0, 5614.0, 5461.0, 5366.0, 5413.0, 5401.0, 5587.0, 5541.0, 5593.0, 5515.0, 5584.0, 5355.0, 5296.0, 5511.0, 5512.0, 5416.0, 5500.0, 5544.0, 5398.0, 5448.0, 5276.0, 5452.0, 5509.0, 5532.0, 5304.0, 5313.0, 5591.0, 5385.0, 5562.0, 5647.0, 5473.0, 5273.0, 5718.0, 5427.0, 5443.0, 5428.0, 5551.0, 5462.0, 5649.0, 5352.0, 5285.0, 5582.0, 5518.0, 5395.0, 5301.0, 5719.0, 5405.0, 5376.0, 5508.0, 5422.0, 5463.0, 5723.0, 5716.0, 5397.0, 5268.0, 5458.0, 5386.0, 5393.0 (number of hits: 5)
2	5280	9	1	333	1	5347.0, 5717.0, 5591.0, 5643.0, 5305.0, 5414.0, 5507.0, 5650.0, 5672.0, 5374.0, 5502.0, 5627.0, 5272.0, 5442.0, 5286.0, 5469.0, 5369.0, 5320.0, 5413.0, 5321.0, 5429.0, 5700.0, 5514.0, 5459.0, 5711.0, 5313.0, 5642.0, 5557.0, 5474.0, 5480.0, 5467.0, 5336.0, 5262.0, 5509.0, 5458.0, 5341.0, 5327.0, 5333.0, 5709.0, 5550.0, 5667.0, 5569.0, 5289.0, 5402.0, 5570.0, 5471.0, 5253.0, 5579.0, 5463.0, 5492.0, 5398.0, 5296.0, 5451.0, 5418.0, 5285.0, 5534.0, 5390.0, 5549.0, 5639.0, 5290.0, 5601.0, 5399.0, 5714.0, 5505.0, 5637.0, 5552.0, 5283.0, 5386.0, 5438.0, 5444.0, 5275.0, 5346.0, 5599.0, 5351.0, 5668.0, 5539.0, 5394.0, 5521.0, 5344.0, 5556.0, 5461.0, 5546.0, 5701.0, 5644.0, 5264.0, 5587.0, 5634.0, 5355.0, 5583.0, 5252.0, 5440.0, 5578.0, 5488.0, 5358.0, 5268.0, 5519.0, 5267.0, 5486.0, 5666.0, 5555.0 (number of hits: 6)
3	5280	9	1	333	1	5429.0, 5508.0, 5483.0, 5478.0, 5584.0, 5401.0, 5631.0, 5405.0, 5629.0, 5263.0, 5427.0, 5536.0, 5459.0, 5378.0, 5390.0, 5255.0, 5568.0, 5658.0, 5724.0, 5323.0, 5577.0, 5471.0, 5533.0, 5325.0, 5271.0, 5283.0, 5404.0, 5572.0, 5361.0, 5636.0, 5348.0, 5600.0, 5647.0, 5403.0, 5510.0, 5528.0, 5505.0, 5662.0, 5367.0, 5389.0, 5677.0, 5565.0, 5664.0, 5506.0, 5651.0, 5665.0, 5678.0, 5646.0, 5690.0, 5632.0, 5524.0, 5519.0, 5358.0, 5482.0, 5708.0, 5257.0, 5622.0, 5611.0, 5663.0, 5714.0,

						5614.0, 5546.0, 5402.0, 5645.0, 5266.0, 5607.0, 5610.0, 5394.0, 5265.0, 5335.0, 5345.0, 5386.0, 5362.0, 5262.0, 5267.0, 5586.0, 5419.0, 5628.0, 5353.0, 5290.0, 5354.0, 5428.0, 5357.0, 5341.0, 5370.0, 5485.0, 5451.0, 5282.0, 5407.0, 5270.0, 5442.0, 5513.0, 5499.0, 5693.0, 5318.0, 5277.0, 5308.0, 5521.0, 5531.0, 5574.0 (number of hits: 5)
4	5280	9	1	333	1	5692.0, 5288.0, 5298.0, 5299.0, 5453.0, 5420.0, 5265.0, 5328.0, 5558.0, 5672.0, 5598.0, 5583.0, 5257.0, 5447.0, 5481.0, 5339.0, 5338.0, 5623.0, 5711.0, 5715.0, 5256.0, 5330.0, 5706.0, 5698.0, 5629.0, 5700.0, 5532.0, 5379.0, 5668.0, 5439.0, 5333.0, 5462.0, 5568.0, 5719.0, 5695.0, 5509.0, 5540.0, 5565.0, 5697.0, 5261.0, 5363.0, 5430.0, 5463.0, 5471.0, 5266.0, 5370.0, 5709.0, 5691.0, 5601.0, 5586.0, 5546.0, 5597.0, 5536.0, 5468.0, 5520.0, 5596.0, 5529.0, 5635.0, 5344.0, 5392.0, 5321.0, 5689.0, 5451.0, 5314.0, 5280.0, 5606.0, 5300.0, 5671.0, 5294.0, 5632.0, 5414.0, 5718.0, 5394.0, 5679.0, 5525.0, 5277.0, 5500.0, 5352.0, 5270.0, 5675.0, 5450.0, 5476.0, 5646.0, 5381.0, 5416.0, 5555.0, 5296.0, 5723.0, 5343.0, 5605.0, 5366.0, 5684.0, 5364.0, 5544.0, 5308.0, 5403.0, 5716.0, 5467.0, 5329.0, 5373.0 (number of hits: 4)
5	5280	9	1	333	1	5689.0, 5589.0, 5495.0, 5402.0, 5457.0, 5337.0, 5672.0, 5662.0, 5277.0, 5419.0, 5466.0, 5358.0, 5567.0, 5713.0, 5371.0, 5550.0, 5307.0, 5393.0, 5414.0, 5501.0, 5383.0, 5563.0, 5407.0, 5681.0, 5484.0, 5316.0, 5608.0, 5455.0, 5654.0, 5490.0, 5274.0, 5458.0, 5721.0, 5416.0, 5421.0, 5374.0, 5588.0, 5263.0, 5504.0, 5296.0, 5641.0, 5683.0, 5470.0, 5429.0, 5349.0, 5629.0, 5254.0, 5401.0, 5554.0, 5488.0, 5580.0, 5716.0, 5430.0, 5698.0, 5494.0, 5262.0, 5305.0, 5476.0, 5392.0, 5658.0, 5591.0, 5612.0, 5452.0, 5546.0, 5367.0, 5333.0, 5596.0, 5287.0, 5442.0, 5524.0, 5692.0, 5556.0, 5288.0, 5626.0, 5530.0, 5325.0, 5269.0, 5705.0, 5520.0, 5595.0, 5434.0, 5355.0, 5439.0, 5251.0, 5516.0, 5275.0, 5324.0, 5377.0, 5604.0, 5656.0, 5635.0, 5400.0, 5339.0, 5432.0, 5471.0, 5633.0, 5610.0, 5390.0, 5437.0, 5593.0 (number of hits: 5)
6	5280	9	1	333	1	5307.0, 5357.0, 5583.0, 5372.0, 5599.0, 5261.0, 5718.0, 5485.0, 5540.0, 5589.0, 5421.0, 5552.0, 5628.0, 5542.0, 5564.0, 5436.0, 5486.0, 5449.0, 5571.0, 5574.0, 5419.0, 5252.0, 5684.0, 5340.0, 5598.0, 5600.0, 5424.0, 5677.0, 5325.0, 5338.0, 5275.0, 5696.0, 5460.0, 5413.0, 5440.0, 5315.0, 5610.0, 5604.0, 5705.0, 5291.0, 5382.0, 5656.0, 5388.0, 5489.0, 5409.0,

						5354.0, 5714.0, 5664.0, 5448.0, 5693.0, 5505.0, 5478.0, 5303.0, 5673.0, 5534.0, 5523.0, 5668.0, 5647.0, 5720.0, 5582.0, 5362.0, 5290.0, 5681.0, 5654.0, 5481.0, 5635.0, 5550.0, 5618.0, 5445.0, 5335.0, 5341.0, 5348.0, 5722.0, 5591.0, 5638.0, 5417.0, 5512.0, 5393.0, 5408.0, 5313.0, 5251.0, 5519.0, 5391.0, 5493.0, 5253.0, 5687.0, 5558.0, 5467.0, 5355.0, 5464.0, 5465.0, 5607.0, 5557.0, 5282.0, 5345.0, 5498.0, 5433.0, 5277.0, 5420.0, 5625.0 (number of hits: 3)
7	5280	9	1	333	0	
8	5280	9	1	333	1	5326.0, 5450.0, 5473.0, 5372.0, 5256.0, 5637.0, 5718.0, 5362.0, 5284.0, 5658.0, 5665.0, 5577.0, 5346.0, 5496.0, 5646.0, 5347.0, 5461.0, 5571.0, 5288.0, 5559.0, 5695.0, 5601.0, 5655.0, 5554.0, 5483.0, 5535.0, 5673.0, 5435.0, 5581.0, 5613.0, 5400.0, 5415.0, 5403.0, 5542.0, 5687.0, 5273.0, 5530.0, 5442.0, 5451.0, 5709.0, 5366.0, 5494.0, 5281.0, 5579.0, 5512.0, 5399.0, 5467.0, 5463.0, 5693.0, 5320.0, 5575.0, 5561.0, 5430.0, 5588.0, 5416.0, 5690.0, 5388.0, 5508.0, 5634.0, 5253.0, 5270.0, 5271.0, 5537.0, 5464.0, 5406.0, 5318.0, 5303.0, 5626.0, 5630.0, 5294.0, 5717.0, 5299.0, 5602.0, 5302.0, 5527.0, 5282.0, 5456.0, 5610.0, 5361.0, 5476.0, 5329.0, 5397.0, 5639.0, 5553.0, 5384.0, 5625.0, 5448.0, 5359.0, 5486.0, 5278.0, 5708.0, 5340.0, 5710.0, 5482.0, 5599.0, 5611.0, 5468.0, 5408.0, 5590.0, 5443.0 (number of hits: 8)
9	5280	9	1	333	1	5498.0, 5309.0, 5336.0, 5671.0, 5591.0, 5398.0, 5627.0, 5435.0, 5505.0, 5303.0, 5562.0, 5554.0, 5584.0, 5701.0, 5645.0, 5298.0, 5443.0, 5441.0, 5541.0, 5295.0, 5470.0, 5693.0, 5553.0, 5316.0, 5431.0, 5363.0, 5438.0, 5404.0, 5528.0, 5646.0, 5674.0, 5486.0, 5518.0, 5643.0, 5512.0, 5477.0, 5291.0, 5705.0, 5494.0, 5368.0, 5589.0, 5372.0, 5659.0, 5339.0, 5551.0, 5510.0, 5360.0, 5389.0, 5412.0, 5272.0, 5629.0, 5447.0, 5428.0, 5374.0, 5698.0, 5495.0, 5354.0, 5664.0, 5668.0, 5599.0, 5474.0, 5513.0, 5455.0, 5329.0, 5406.0, 5691.0, 5359.0, 5380.0, 5451.0, 5630.0, 5716.0, 5558.0, 5608.0, 5262.0, 5704.0, 5580.0, 5718.0, 5383.0, 5358.0, 5604.0, 5370.0, 5300.0, 5340.0, 5276.0, 5454.0, 5416.0, 5439.0, 5655.0, 5545.0, 5618.0, 5275.0, 5429.0, 5453.0, 5274.0, 5255.0, 5714.0, 5321.0, 5596.0, 5677.0, 5402.0 (number of hits: 4)
10	5280	9	1	333	1	5330.0, 5526.0, 5288.0, 5262.0, 5511.0, 5423.0, 5482.0, 5476.0, 5648.0, 5422.0, 5275.0, 5421.0, 5287.0, 5518.0, 5337.0, 5314.0, 5282.0, 5363.0, 5496.0, 5437.0, 5678.0, 5694.0, 5556.0, 5552.0, 5602.0,

						5561.0, 5452.0, 5684.0, 5601.0, 5271.0, 5373.0, 5721.0, 5563.0, 5530.0, 5571.0, 5527.0, 5706.0, 5516.0, 5268.0, 5356.0, 5642.0, 5361.0, 5657.0, 5615.0, 5343.0, 5467.0, 5538.0, 5304.0, 5574.0, 5609.0, 5279.0, 5582.0, 5520.0, 5584.0, 5667.0, 5399.0, 5497.0, 5360.0, 5397.0, 5559.0, 5479.0, 5358.0, 5723.0, 5691.0, 5487.0, 5555.0, 5542.0, 5345.0, 5641.0, 5478.0, 5703.0, 5572.0, 5273.0, 5587.0, 5579.0, 5375.0, 5425.0, 5611.0, 5272.0, 5442.0, 5578.0, 5455.0, 5506.0, 5453.0, 5266.0, 5297.0, 5296.0, 5544.0, 5685.0, 5473.0, 5619.0, 5308.0, 5470.0, 5323.0, 5537.0, 5387.0, 5317.0, 5412.0, 5324.0, 5458.0 (number of hits: 8)
11	5280	9	1	333	1	5538.0, 5536.0, 5261.0, 5307.0, 5489.0, 5587.0, 5293.0, 5444.0, 5698.0, 5719.0, 5467.0, 5480.0, 5306.0, 5427.0, 5569.0, 5603.0, 5520.0, 5586.0, 5400.0, 5473.0, 5284.0, 5584.0, 5268.0, 5392.0, 5403.0, 5361.0, 5707.0, 5599.0, 5644.0, 5460.0, 5470.0, 5315.0, 5691.0, 5535.0, 5610.0, 5577.0, 5466.0, 5291.0, 5283.0, 5408.0, 5590.0, 5278.0, 5641.0, 5379.0, 5695.0, 5372.0, 5374.0, 5452.0, 5648.0, 5309.0, 5572.0, 5331.0, 5422.0, 5456.0, 5497.0, 5681.0, 5576.0, 5604.0, 5277.0, 5397.0, 5414.0, 5469.0, 5472.0, 5679.0, 5430.0, 5270.0, 5550.0, 5388.0, 5680.0, 5454.0, 5514.0, 5358.0, 5359.0, 5593.0, 5588.0, 5530.0, 5677.0, 5353.0, 5524.0, 5281.0, 5718.0, 5505.0, 5312.0, 5298.0, 5429.0, 5640.0, 5407.0, 5324.0, 5621.0, 5554.0, 5423.0, 5619.0, 5608.0, 5529.0, 5617.0, 5714.0, 5582.0, 5435.0, 5523.0, 5363.0 (number of hits: 6)
12	5280	9	1	333	1	5295.0, 5379.0, 5481.0, 5661.0, 5719.0, 5391.0, 5675.0, 5456.0, 5494.0, 5520.0, 5363.0, 5321.0, 5514.0, 5496.0, 5573.0, 5366.0, 5519.0, 5266.0, 5273.0, 5472.0, 5602.0, 5272.0, 5487.0, 5665.0, 5530.0, 5644.0, 5709.0, 5432.0, 5500.0, 5356.0, 5348.0, 5371.0, 5291.0, 5352.0, 5723.0, 5561.0, 5608.0, 5641.0, 5479.0, 5699.0, 5503.0, 5312.0, 5376.0, 5410.0, 5620.0, 5523.0, 5423.0, 5581.0, 5449.0, 5416.0, 5617.0, 5673.0, 5292.0, 5542.0, 5544.0, 5651.0, 5475.0, 5590.0, 5623.0, 5575.0, 5550.0, 5468.0, 5622.0, 5603.0, 5350.0, 5556.0, 5305.0, 5611.0, 5327.0, 5488.0, 5679.0, 5377.0, 5386.0, 5406.0, 5446.0, 5330.0, 5640.0, 5687.0, 5383.0, 5670.0, 5663.0, 5718.0, 5592.0, 5539.0, 5333.0, 5672.0, 5421.0, 5349.0, 5633.0, 5674.0, 5703.0, 5566.0, 5252.0, 5328.0, 5612.0, 5274.0, 5471.0, 5325.0, 5681.0, 5578.0 (number of hits: 3)
13	5280	9	1	333	0	

14	5280	9	1	333	1	5340.0, 5712.0, 5500.0, 5483.0, 5651.0, 5675.0, 5419.0, 5612.0, 5658.0, 5508.0, 5714.0, 5486.0, 5532.0, 5537.0, 5573.0, 5519.0, 5572.0, 5549.0, 5423.0, 5330.0, 5682.0, 5661.0, 5351.0, 5263.0, 5259.0, 5505.0, 5636.0, 5354.0, 5458.0, 5628.0, 5262.0, 5439.0, 5291.0, 5266.0, 5584.0, 5296.0, 5398.0, 5453.0, 5448.0, 5287.0, 5318.0, 5261.0, 5581.0, 5274.0, 5702.0, 5672.0, 5621.0, 5254.0, 5567.0, 5325.0, 5710.0, 5390.0, 5306.0, 5644.0, 5604.0, 5399.0, 5443.0, 5366.0, 5418.0, 5297.0, 5689.0, 5683.0, 5530.0, 5313.0, 5673.0, 5591.0, 5719.0, 5616.0, 5690.0, 5724.0, 5369.0, 5642.0, 5375.0, 5289.0, 5607.0, 5410.0, 5315.0, 5420.0, 5444.0, 5362.0, 5379.0, 5635.0, 5355.0, 5332.0, 5541.0, 5251.0, 5436.0, 5477.0, 5341.0, 5514.0, 5408.0, 5620.0, 5578.0, 5535.0, 5392.0, 5670.0, 5536.0, 5637.0, 5317.0, 5403.0 (number of hits: 3)
15	5280	9	1	333	1	5469.0, 5548.0, 5479.0, 5353.0, 5630.0, 5645.0, 5704.0, 5494.0, 5540.0, 5609.0, 5302.0, 5319.0, 5547.0, 5718.0, 5441.0, 5677.0, 5404.0, 5589.0, 5298.0, 5257.0, 5443.0, 5702.0, 5524.0, 5276.0, 5576.0, 5352.0, 5679.0, 5454.0, 5536.0, 5682.0, 5570.0, 5475.0, 5715.0, 5424.0, 5392.0, 5572.0, 5519.0, 5262.0, 5487.0, 5467.0, 5385.0, 5258.0, 5370.0, 5643.0, 5268.0, 5345.0, 5659.0, 5267.0, 5278.0, 5554.0, 5444.0, 5492.0, 5625.0, 5282.0, 5482.0, 5310.0, 5287.0, 5598.0, 5339.0, 5334.0, 5660.0, 5251.0, 5471.0, 5668.0, 5427.0, 5568.0, 5543.0, 5254.0, 5488.0, 5532.0, 5433.0, 5658.0, 5445.0, 5710.0, 5456.0, 5599.0, 5592.0, 5415.0, 5375.0, 5275.0, 5308.0, 5506.0, 5516.0, 5409.0, 5351.0, 5614.0, 5670.0, 5688.0, 5556.0, 5458.0, 5453.0, 5678.0, 5337.0, 5431.0, 5531.0, 5403.0, 5667.0, 5338.0, 5274.0, 5428.0 (number of hits: 6)
16	5280	9	1	333	1	5696.0, 5394.0, 5709.0, 5686.0, 5704.0, 5669.0, 5676.0, 5428.0, 5610.0, 5611.0, 5724.0, 5287.0, 5382.0, 5653.0, 5579.0, 5699.0, 5384.0, 5564.0, 5607.0, 5445.0, 5702.0, 5691.0, 5444.0, 5630.0, 5303.0, 5465.0, 5448.0, 5486.0, 5499.0, 5570.0, 5306.0, 5405.0, 5362.0, 5548.0, 5310.0, 5367.0, 5334.0, 5698.0, 5662.0, 5685.0, 5639.0, 5533.0, 5683.0, 5360.0, 5489.0, 5385.0, 5425.0, 5602.0, 5427.0, 5547.0, 5574.0, 5419.0, 5398.0, 5261.0, 5518.0, 5291.0, 5520.0, 5321.0, 5396.0, 5525.0, 5301.0, 5266.0, 5429.0, 5346.0, 5637.0, 5538.0, 5521.0, 5309.0, 5327.0, 5622.0, 5586.0, 5361.0, 5373.0, 5467.0, 5514.0, 5590.0, 5354.0, 5336.0, 5665.0, 5352.0, 5339.0, 5285.0, 5672.0, 5252.0, 5636.0, 5433.0, 5331.0, 5432.0, 5400.0, 5288.0,

						5604.0, 5440.0, 5402.0, 5635.0, 5713.0, 5457.0, 5682.0, 5317.0, 5687.0, 5600.0 (number of hits: 3)
17	5280	9	1	333	0	
18	5280	9	1	333	1	5254.0, 5459.0, 5515.0, 5285.0, 5313.0, 5329.0, 5551.0, 5293.0, 5455.0, 5433.0, 5286.0, 5556.0, 5706.0, 5507.0, 5480.0, 5382.0, 5499.0, 5300.0, 5602.0, 5437.0, 5375.0, 5651.0, 5502.0, 5287.0, 5678.0, 5643.0, 5399.0, 5680.0, 5647.0, 5415.0, 5603.0, 5700.0, 5653.0, 5536.0, 5582.0, 5290.0, 5265.0, 5423.0, 5637.0, 5638.0, 5693.0, 5320.0, 5584.0, 5272.0, 5630.0, 5685.0, 5325.0, 5340.0, 5670.0, 5698.0, 5470.0, 5468.0, 5628.0, 5312.0, 5646.0, 5546.0, 5631.0, 5568.0, 5360.0, 5639.0, 5401.0, 5559.0, 5497.0, 5538.0, 5309.0, 5525.0, 5548.0, 5421.0, 5611.0, 5363.0, 5381.0, 5597.0, 5367.0, 5537.0, 5303.0, 5713.0, 5565.0, 5607.0, 5250.0, 5533.0, 5302.0, 5524.0, 5475.0, 5633.0, 5555.0, 5422.0, 5482.0, 5311.0, 5386.0, 5512.0, 5580.0, 5570.0, 5688.0, 5561.0, 5711.0, 5256.0, 5575.0, 5397.0, 5560.0, 5718.0 (number of hits: 4)
19	5280	9	1	333	1	5340.0, 5561.0, 5327.0, 5714.0, 5632.0, 5276.0, 5586.0, 5306.0, 5618.0, 5620.0, 5701.0, 5295.0, 5471.0, 5481.0, 5666.0, 5642.0, 5485.0, 5268.0, 5264.0, 5697.0, 5630.0, 5490.0, 5575.0, 5396.0, 5338.0, 5378.0, 5255.0, 5537.0, 5583.0, 5442.0, 5677.0, 5279.0, 5640.0, 5654.0, 5703.0, 5626.0, 5565.0, 5381.0, 5564.0, 5580.0, 5650.0, 5453.0, 5611.0, 5532.0, 5359.0, 5435.0, 5329.0, 5572.0, 5403.0, 5524.0, 5684.0, 5457.0, 5269.0, 5535.0, 5579.0, 5434.0, 5336.0, 5351.0, 5552.0, 5685.0, 5397.0, 5499.0, 5518.0, 5450.0, 5686.0, 5271.0, 5711.0, 5405.0, 5617.0, 5466.0, 5641.0, 5702.0, 5530.0, 5724.0, 5263.0, 5627.0, 5291.0, 5325.0, 5425.0, 5294.0, 5463.0, 5262.0, 5438.0, 5383.0, 5487.0, 5623.0, 5723.0, 5720.0, 5331.0, 5605.0, 5668.0, 5656.0, 5285.0, 5680.0, 5270.0, 5439.0, 5479.0, 5341.0, 5716.0, 5251.0 (number of hits: 5)
20	5280	9	1	333	1	5417.0, 5353.0, 5565.0, 5257.0, 5560.0, 5253.0, 5519.0, 5651.0, 5335.0, 5283.0, 5374.0, 5379.0, 5334.0, 5606.0, 5427.0, 5694.0, 5502.0, 5311.0, 5637.0, 5388.0, 5345.0, 5718.0, 5627.0, 5713.0, 5597.0, 5523.0, 5520.0, 5656.0, 5332.0, 5412.0, 5494.0, 5392.0, 5349.0, 5390.0, 5685.0, 5485.0, 5467.0, 5588.0, 5479.0, 5649.0, 5538.0, 5413.0, 5595.0, 5496.0, 5505.0, 5282.0, 5555.0, 5278.0, 5716.0, 5298.0, 5370.0, 5671.0, 5615.0, 5399.0, 5402.0, 5366.0, 5256.0, 5518.0, 5687.0, 5705.0, 5289.0, 5251.0, 5438.0, 5291.0, 5641.0, 5265.0, 5619.0, 5407.0, 5440.0, 5572.0,

						5314.0, 5362.0, 5290.0, 5355.0, 5558.0, 5550.0, 5628.0, 5577.0, 5621.0, 5488.0, 5646.0, 5376.0, 5465.0, 5309.0, 5688.0, 5549.0, 5408.0, 5667.0, 5273.0, 5312.0, 5292.0, 5331.0, 5622.0, 5611.0, 5457.0, 5336.0, 5566.0, 5672.0, 5717.0, 5702.0 (number of hits: 5)
21	5280	9	1	333	1	5577.0, 5688.0, 5706.0, 5370.0, 5605.0, 5720.0, 5378.0, 5599.0, 5256.0, 5259.0, 5373.0, 5328.0, 5578.0, 5686.0, 5428.0, 5435.0, 5254.0, 5529.0, 5574.0, 5345.0, 5436.0, 5614.0, 5570.0, 5597.0, 5722.0, 5560.0, 5581.0, 5707.0, 5257.0, 5721.0, 5684.0, 5476.0, 5448.0, 5379.0, 5303.0, 5467.0, 5478.0, 5537.0, 5455.0, 5615.0, 5262.0, 5263.0, 5400.0, 5432.0, 5640.0, 5663.0, 5297.0, 5426.0, 5430.0, 5360.0, 5443.0, 5441.0, 5447.0, 5473.0, 5484.0, 5314.0, 5566.0, 5409.0, 5586.0, 5710.0, 5603.0, 5623.0, 5444.0, 5515.0, 5673.0, 5716.0, 5523.0, 5489.0, 5316.0, 5365.0, 5648.0, 5425.0, 5385.0, 5564.0, 5287.0, 5568.0, 5546.0, 5387.0, 5408.0, 5697.0, 5702.0, 5550.0, 5394.0, 5390.0, 5571.0, 5405.0, 5526.0, 5298.0, 5510.0, 5326.0, 5637.0, 5468.0, 5420.0, 5376.0, 5694.0, 5404.0, 5347.0, 5619.0, 5359.0, 5652.0 (number of hits: 1)
22	5280	9	1	333	1	5608.0, 5260.0, 5637.0, 5562.0, 5258.0, 5519.0, 5428.0, 5449.0, 5280.0, 5490.0, 5568.0, 5537.0, 5661.0, 5634.0, 5712.0, 5366.0, 5453.0, 5632.0, 5392.0, 5682.0, 5395.0, 5623.0, 5326.0, 5491.0, 5270.0, 5281.0, 5529.0, 5464.0, 5461.0, 5299.0, 5601.0, 5282.0, 5559.0, 5262.0, 5641.0, 5429.0, 5590.0, 5336.0, 5284.0, 5580.0, 5329.0, 5617.0, 5658.0, 5475.0, 5531.0, 5679.0, 5720.0, 5505.0, 5436.0, 5516.0, 5340.0, 5523.0, 5277.0, 5469.0, 5301.0, 5664.0, 5324.0, 5548.0, 5613.0, 5528.0, 5263.0, 5553.0, 5372.0, 5362.0, 5621.0, 5593.0, 5463.0, 5293.0, 5571.0, 5542.0, 5348.0, 5425.0, 5487.0, 5311.0, 5488.0, 5347.0, 5538.0, 5434.0, 5554.0, 5503.0, 5401.0, 5626.0, 5380.0, 5357.0, 5314.0, 5294.0, 5552.0, 5437.0, 5479.0, 5484.0, 5400.0, 5698.0, 5388.0, 5694.0, 5662.0, 5545.0, 5652.0, 5250.0, 5415.0, 5423.0 (number of hits: 6)
23	5280	9	1	333	1	5374.0, 5484.0, 5361.0, 5600.0, 5345.0, 5539.0, 5662.0, 5604.0, 5252.0, 5468.0, 5502.0, 5647.0, 5331.0, 5387.0, 5548.0, 5572.0, 5630.0, 5272.0, 5583.0, 5556.0, 5643.0, 5326.0, 5538.0, 5348.0, 5377.0, 5498.0, 5667.0, 5275.0, 5547.0, 5312.0, 5324.0, 5395.0, 5614.0, 5334.0, 5408.0, 5336.0, 5444.0, 5483.0, 5549.0, 5709.0, 5381.0, 5264.0, 5543.0, 5349.0, 5554.0, 5530.0, 5682.0, 5629.0, 5496.0, 5333.0, 5511.0, 5606.0, 5669.0, 5363.0, 5504.0,

						5536.0, 5332.0, 5320.0, 5718.0, 5292.0, 5460.0, 5261.0, 5295.0, 5410.0, 5478.0, 5491.0, 5289.0, 5550.0, 5645.0, 5405.0, 5360.0, 5358.0, 5489.0, 5329.0, 5404.0, 5680.0, 5435.0, 5661.0, 5357.0, 5632.0, 5585.0, 5356.0, 5367.0, 5723.0, 5508.0, 5610.0, 5597.0, 5565.0, 5464.0, 5654.0, 5598.0, 5306.0, 5581.0, 5621.0, 5524.0, 5254.0, 5316.0, 5615.0, 5255.0, 5453.0 (number of hits: 3)
24	5280	9	1	333	1	5523.0, 5713.0, 5309.0, 5435.0, 5637.0, 5621.0, 5302.0, 5550.0, 5268.0, 5255.0, 5425.0, 5601.0, 5496.0, 5673.0, 5602.0, 5539.0, 5378.0, 5468.0, 5658.0, 5663.0, 5280.0, 5387.0, 5654.0, 5474.0, 5367.0, 5661.0, 5607.0, 5706.0, 5306.0, 5261.0, 5481.0, 5559.0, 5298.0, 5292.0, 5680.0, 5552.0, 5593.0, 5651.0, 5517.0, 5653.0, 5411.0, 5614.0, 5603.0, 5389.0, 5437.0, 5675.0, 5522.0, 5608.0, 5508.0, 5391.0, 5422.0, 5596.0, 5506.0, 5331.0, 5645.0, 5446.0, 5569.0, 5428.0, 5257.0, 5317.0, 5273.0, 5357.0, 5262.0, 5598.0, 5494.0, 5498.0, 5710.0, 5342.0, 5618.0, 5684.0, 5697.0, 5664.0, 5691.0, 5329.0, 5289.0, 5568.0, 5567.0, 5679.0, 5413.0, 5671.0, 5294.0, 5616.0, 5702.0, 5635.0, 5340.0, 5475.0, 5549.0, 5291.0, 5384.0, 5321.0, 5711.0, 5674.0, 5488.0, 5556.0, 5495.0, 5441.0, 5414.0, 5622.0, 5514.0, 5330.0 (number of hits: 3)
25	5280	9	1	333	1	5403.0, 5342.0, 5678.0, 5301.0, 5636.0, 5429.0, 5621.0, 5329.0, 5474.0, 5561.0, 5287.0, 5350.0, 5704.0, 5509.0, 5654.0, 5533.0, 5457.0, 5380.0, 5495.0, 5357.0, 5420.0, 5662.0, 5641.0, 5520.0, 5712.0, 5646.0, 5441.0, 5652.0, 5567.0, 5664.0, 5259.0, 5619.0, 5452.0, 5376.0, 5648.0, 5549.0, 5668.0, 5293.0, 5548.0, 5660.0, 5296.0, 5303.0, 5691.0, 5319.0, 5455.0, 5706.0, 5469.0, 5268.0, 5409.0, 5307.0, 5582.0, 5346.0, 5279.0, 5400.0, 5603.0, 5365.0, 5283.0, 5299.0, 5594.0, 5305.0, 5722.0, 5557.0, 5663.0, 5392.0, 5418.0, 5630.0, 5422.0, 5485.0, 5607.0, 5615.0, 5518.0, 5458.0, 5433.0, 5611.0, 5425.0, 5390.0, 5321.0, 5416.0, 5325.0, 5314.0, 5298.0, 5517.0, 5292.0, 5399.0, 5419.0, 5470.0, 5477.0, 5345.0, 5568.0, 5550.0, 5338.0, 5483.0, 5361.0, 5714.0, 5713.0, 5577.0, 5565.0, 5501.0, 5261.0, 5631.0 (number of hits: 3)
26	5280	9	1	333	1	5377.0, 5379.0, 5563.0, 5356.0, 5614.0, 5400.0, 5398.0, 5670.0, 5382.0, 5673.0, 5705.0, 5706.0, 5312.0, 5383.0, 5678.0, 5275.0, 5496.0, 5468.0, 5576.0, 5287.0, 5439.0, 5539.0, 5445.0, 5456.0, 5396.0, 5325.0, 5425.0, 5551.0, 5485.0, 5558.0, 5530.0, 5698.0, 5470.0, 5619.0, 5601.0, 5297.0, 5472.0, 5545.0, 5552.0, 5484.0,

						5498.0, 5700.0, 5257.0, 5461.0, 5632.0, 5665.0, 5718.0, 5667.0, 5362.0, 5347.0, 5519.0, 5684.0, 5618.0, 5401.0, 5330.0, 5458.0, 5499.0, 5486.0, 5309.0, 5265.0, 5611.0, 5430.0, 5348.0, 5592.0, 5524.0, 5320.0, 5476.0, 5349.0, 5306.0, 5570.0, 5627.0, 5560.0, 5469.0, 5341.0, 5290.0, 5358.0, 5540.0, 5529.0, 5419.0, 5334.0, 5666.0, 5582.0, 5687.0, 5459.0, 5692.0, 5572.0, 5364.0, 5280.0, 5613.0, 5549.0, 5641.0, 5617.0, 5284.0, 5423.0, 5675.0, 5508.0, 5259.0, 5407.0, 5657.0, 5626.0 (number of hits: 4)
27	5280	9	1	333	1	5591.0, 5290.0, 5341.0, 5411.0, 5675.0, 5662.0, 5406.0, 5640.0, 5371.0, 5523.0, 5281.0, 5705.0, 5420.0, 5364.0, 5657.0, 5621.0, 5560.0, 5270.0, 5342.0, 5455.0, 5438.0, 5608.0, 5623.0, 5680.0, 5471.0, 5526.0, 5443.0, 5278.0, 5259.0, 5312.0, 5392.0, 5697.0, 5263.0, 5525.0, 5361.0, 5482.0, 5685.0, 5567.0, 5350.0, 5614.0, 5599.0, 5495.0, 5655.0, 5533.0, 5659.0, 5624.0, 5649.0, 5611.0, 5357.0, 5293.0, 5627.0, 5539.0, 5316.0, 5706.0, 5279.0, 5409.0, 5403.0, 5395.0, 5432.0, 5423.0, 5367.0, 5318.0, 5265.0, 5619.0, 5515.0, 5419.0, 5468.0, 5652.0, 5448.0, 5339.0, 5383.0, 5711.0, 5647.0, 5481.0, 5492.0, 5333.0, 5461.0, 5372.0, 5677.0, 5282.0, 5563.0, 5469.0, 5355.0, 5694.0, 5518.0, 5447.0, 5353.0, 5285.0, 5606.0, 5507.0, 5520.0, 5692.0, 5549.0, 5660.0, 5554.0, 5401.0, 5324.0, 5297.0, 5426.0, 5656.0 (number of hits: 6)
28	5280	9	1	333	1	5327.0, 5374.0, 5494.0, 5316.0, 5463.0, 5613.0, 5665.0, 5691.0, 5438.0, 5408.0, 5512.0, 5647.0, 5621.0, 5549.0, 5467.0, 5492.0, 5366.0, 5557.0, 5675.0, 5695.0, 5552.0, 5332.0, 5672.0, 5612.0, 5300.0, 5521.0, 5605.0, 5263.0, 5392.0, 5669.0, 5505.0, 5609.0, 5587.0, 5381.0, 5656.0, 5604.0, 5251.0, 5718.0, 5687.0, 5528.0, 5361.0, 5259.0, 5518.0, 5447.0, 5688.0, 5603.0, 5540.0, 5670.0, 5673.0, 5477.0, 5620.0, 5256.0, 5402.0, 5458.0, 5433.0, 5472.0, 5423.0, 5653.0, 5280.0, 5297.0, 5654.0, 5394.0, 5650.0, 5288.0, 5496.0, 5353.0, 5661.0, 5610.0, 5323.0, 5469.0, 5517.0, 5535.0, 5545.0, 5678.0, 5692.0, 5388.0, 5715.0, 5450.0, 5320.0, 5704.0, 5275.0, 5308.0, 5301.0, 5590.0, 5686.0, 5277.0, 5542.0, 5289.0, 5681.0, 5389.0, 5632.0, 5574.0, 5413.0, 5507.0, 5589.0, 5466.0, 5479.0, 5575.0, 5454.0, 5410.0 (number of hits: 5)
29	5280	9	1	333	1	5538.0, 5357.0, 5674.0, 5481.0, 5281.0, 5402.0, 5597.0, 5345.0, 5529.0, 5365.0, 5614.0, 5487.0, 5383.0, 5432.0, 5441.0, 5624.0, 5418.0, 5292.0, 5254.0, 5430.0, 5532.0, 5369.0, 5518.0, 5335.0, 5549.0,

						5333.0, 5283.0, 5424.0, 5401.0, 5297.0, 5446.0, 5470.0, 5547.0, 5528.0, 5460.0, 5466.0, 5260.0, 5444.0, 5324.0, 5638.0, 5468.0, 5705.0, 5286.0, 5314.0, 5658.0, 5558.0, 5370.0, 5414.0, 5395.0, 5282.0, 5452.0, 5562.0, 5609.0, 5352.0, 5504.0, 5661.0, 5589.0, 5625.0, 5699.0, 5683.0, 5492.0, 5320.0, 5521.0, 5399.0, 5412.0, 5503.0, 5318.0, 5497.0, 5560.0, 5453.0, 5613.0, 5693.0, 5675.0, 5571.0, 5396.0, 5630.0, 5290.0, 5564.0, 5628.0, 5361.0, 5269.0, 5687.0, 5397.0, 5523.0, 5294.0, 5718.0, 5422.0, 5587.0, 5289.0, 5592.0, 5591.0, 5533.0, 5596.0, 5253.0, 5660.0, 5348.0, 5502.0, 5257.0, 5366.0, 5670.0 (number of hits: 5)
30	5280	9	1	333	1	5297.0, 5300.0, 5614.0, 5588.0, 5641.0, 5491.0, 5707.0, 5599.0, 5616.0, 5687.0, 5477.0, 5639.0, 5643.0, 5600.0, 5709.0, 5464.0, 5650.0, 5370.0, 5705.0, 5487.0, 5638.0, 5692.0, 5572.0, 5504.0, 5527.0, 5275.0, 5295.0, 5334.0, 5353.0, 5498.0, 5378.0, 5456.0, 5311.0, 5605.0, 5636.0, 5436.0, 5667.0, 5468.0, 5442.0, 5433.0, 5534.0, 5360.0, 5547.0, 5676.0, 5503.0, 5606.0, 5490.0, 5396.0, 5556.0, 5387.0, 5437.0, 5496.0, 5613.0, 5610.0, 5645.0, 5392.0, 5693.0, 5266.0, 5688.0, 5530.0, 5626.0, 5414.0, 5678.0, 5307.0, 5420.0, 5544.0, 5492.0, 5352.0, 5479.0, 5675.0, 5461.0, 5481.0, 5398.0, 5346.0, 5423.0, 5269.0, 5280.0, 5471.0, 5637.0, 5617.0, 5716.0, 5584.0, 5644.0, 5476.0, 5458.0, 5555.0, 5596.0, 5267.0, 5663.0, 5262.0, 5484.0, 5298.0, 5386.0, 5383.0, 5357.0, 5341.0, 5612.0, 5546.0, 5608.0, 5465.0 (number of hits: 2)

40MHz,

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	93.3%	60%	pass
Type 1B	15	93.3%		
Type 2	30	90 %	60%	Pass
Type 3	30	86.7 %	60%	Pass
Type 4	30	90 %	60%	Pass
Aggregate(Type1 to 4)	120	90 %	80%	Pass
Type 5	30	90%	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	67	1	798	1
2	5270	83	1	638	1
3	5270	102	1	518	1
4	5270	78	1	678	1
5	5270	61	1	878	1
6	5270	72	1	738	1
7	5270	95	1	558	1
8	5270	62	1	858	1
9	5270	86	1	618	1
10	5270	81	1	658	1
11	5270	58	1	918	1
12	5270	65	1	818	1
13	5270	89	1	598	1
14	5270	99	1	538	0
15	5270	74	1	718	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	5270	52	1	1021	1
2	5270	18	1	3040	1
3	5270	23	1	2370	1
4	5270	31	1	1723	1
5	5270	22	1	2420	1
6	5270	55	1	962	1
7	5270	67	1	792	1
8	5270	25	1	2151	1
9	5270	25	1	2191	1
10	5270	46	1	1153	1
11	5270	41	1	1303	1
12	5270	19	1	2855	1
13	5270	53	1	1006	1
14	5270	44	1	1215	1
15	5270	47	1	1144	0
Detection Percentage: 93.3 % (>60%)					

Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	29	4	178	1
2	5270	25	3	217	1
3	5270	23	3.8	200	1
4	5270	27	4.7	213	1
5	5270	24	4.6	168	1
6	5270	26	2.8	184	1
7	5270	24	2.8	165	1
8	5270	23	2.2	153	1
9	5270	26	1.6	152	1
10	5270	27	4.3	183	1
11	5270	28	4.7	181	1
12	5270	23	1.4	169	1
13	5270	28	2.8	227	1
14	5270	29	4.2	180	0
15	5270	29	3.3	171	0
16	5270	27	4.2	212	1
17	5270	29	2.1	182	1
18	5270	25	4.9	226	0
19	5270	29	4.7	153	1
20	5270	27	2.2	204	1
21	5270	27	1.4	221	1
22	5270	24	3	188	1
23	5270	27	2.7	198	1
24	5270	28	3	188	1
25	5270	26	2.6	218	1
26	5270	25	1.9	217	1
27	5270	25	3.2	204	1
28	5270	27	4.9	203	1
29	5270	27	1.4	178	1
30	5270	28	3.1	180	1
Detection Percentage: 90 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	16	8.1	218	1
2	5270	17	8.9	453	1
3	5270	16	8.1	442	1
4	5270	16	7.3	427	0
5	5270	17	7.3	269	0
6	5270	18	7	408	1
7	5270	18	6.3	406	0
8	5270	17	6.9	226	1
9	5270	16	9.5	304	1
10	5270	17	10	454	1
11	5270	16	8.7	398	1
12	5270	16	9.8	435	1
13	5270	17	6.9	235	1
14	5270	18	9.5	214	1
15	5270	17	7.6	223	1
16	5270	18	7.6	222	1
17	5270	16	8.1	470	1
18	5270	16	7.7	437	1
19	5270	16	7.7	267	0
20	5270	17	8.7	268	1
21	5270	16	8.8	385	1
22	5270	17	9.3	338	1
23	5270	16	8.7	207	1
24	5270	16	7.9	331	1
25	5270	16	6.4	235	1
26	5270	16	9.2	283	1
27	5270	16	9.7	410	1
28	5270	18	9.8	295	1
29	5270	17	7.4	237	1
30	5270	16	7.9	495	1
Detection Percentage: 86.7% (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	15	12.9	498	1
2	5270	16	16.4	457	1
3	5270	16	14.6	416	1
4	5270	14	17.8	239	1
5	5270	16	19.5	380	1
6	5270	15	16	451	0
7	5270	16	11.6	414	1
8	5270	14	19.2	441	1
9	5270	15	11	399	1
10	5270	13	11.4	268	1
11	5270	14	14	231	1
12	5270	15	14.7	391	0
13	5270	15	13.2	330	1
14	5270	13	17.4	335	1
15	5270	12	13.9	348	1
16	5270	16	18	205	1
17	5270	16	13.9	292	1
18	5270	13	17.3	295	1
19	5270	14	13.8	469	1
20	5270	16	11.2	337	1
21	5270	14	11.5	431	1
22	5270	14	16.5	215	1
23	5270	15	14.5	435	1
24	5270	16	12.4	362	1
25	5270	13	19.5	461	1
26	5270	13	11.2	375	1
27	5270	15	19.7	377	1
28	5270	12	18.2	455	0
29	5270	14	11.5	490	1
30	5270	16	19.5	489	1
Detection Percentage: 90 % (>60%)					

Radar Type 5 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	81.3	7			527.35	1
2	11	72.8	7	1463	1077	410.581	
3	11	82.6	7	1109		197.462	
4	11	57.3	7	1906		25.713	
5	11	84.7	7	1201		670.664	
6	11	69.6	7	1612		825.335	
7	11	76.3	7			15.315	
8	11	82.7	7	1481	923	1044.716	
9	11	92.8	7	1335		361.917	
10	11	87.7	7	1760		382.918	
11	11	52.6	7			667.909	

Statistics 2 (ChirpCenter Frequency: 5280 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	59.6	6	1729		30.275	1
2	14	62	6	1754	1213	681.867	
3	14	90	6	1449		611.244	
4	14	97.4	6	1798		368.281	
5	14	62.2	6	1175	1488	194.439	
6	14	78.6	6	974		488.066	
7	14	53	6	1677		795.833	
8	14	86.3	6			16.9	
9	14	74	6			834.897	
10	14	86.7	6			305.684	
11	14	54.7	6	1369		595.481	
12	14	50.4	6	1559		374.529	
13	14	71.2	6	1572	1866	599.686	
14	14	93.8	6			814.343	

Statistics 3 (ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	73.6	6	1620		256.855	1
2	14	55.5	6	1059	1925	696.607	
3	14	95.3	6	917		655.734	
4	14	93.5	6	1671	1021	745.251	
5	14	81	6			393.429	
6	14	82.5	6	1410	1147	480.526	
7	14	88.9	6			309.953	
8	14	63.1	6	1203		399.98	
9	14	80.3	6	1431		20.887	
10	14	51.2	6	1472	1417	33.534	
11	14	85.1	6			411.591	
12	14	67.1	6	1263		437.539	
13	14	88.5	6	1365	1381	517.086	
14	14	65.4	6			293.943	

Statistics 4 (ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	70.4	5	1883	1336	606.971	1
2	19	67	5	1140		350.193	
3	19	72.2	5	1631		380.002	
4	19	88.2	5	1700		101.333	
5	19	81	5	1259		82.124	
6	19	79.8	5	1482	1645	95.215	
7	19	83.1	5	1111		256.166	
8	19	88.2	5	1582		134.167	
9	19	76.5	5	1743		466.728	
10	19	99.8	5	1517		575.759	
11	19	81.9	5	1227		385.341	
12	19	68.3	5			264.502	
13	19	68.5	5			344.443	
14	19	55.7	5	1659	1130	463.364	
15	19	83.1	5	1461		424.825	
16	19	72.1	5	1728	1346	278.916	
17	19	93	5	1529	998	357.437	
18	19	74.8	5	1630		233.158	
19	19	90.5	5	1402		201.979	

Statistics 5(ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	90.3	5	1413	1693	579.697	1
2	13	95.5	5	1590	1902	903.023	
3	13	91	5	911		226.566	
4	13	70.1	5	1221		502.159	
5	13	52.2	5	1314		19.102	
6	13	69.8	5	1298		580.225	
7	13	91.4	5			512.258	
8	13	59.1	5			463.512	
9	13	91.7	5	1821		229.285	
10	13	90.4	5			64.668	
11	13	63.8	5	1576		248.421	
12	13	88.2	5	1439		850.754	
13	13	82.6	5	1523	1220	607.777	

Statistics 6 (ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	62.5	5	1768		91.276	1
2	17	57.9	5	1883		586.568	
3	17	78	5	1522		646.585	
4	17	97.6	5	1834		649.903	
5	17	90	5	1240	1767	674.221	
6	17	96.2	5	1355		328.568	
7	17	57.3	5	1189		469.816	
8	17	77.2	5	1456		524.814	
9	17	69.3	5	1340	930	689.371	
10	17	58.3	5	1239	1914	85.149	
11	17	94.6	5			526.186	
12	17	55.6	5			648.374	
13	17	70.7	5	1925	1147	653.982	
14	17	54.4	5	1175	1186	87.519	
15	17	56.6	5	1688	1323	321.747	
16	17	86.2	5	1837		269.265	
17	17	80.9	5	1544	931	295.782	

Statistics 7(ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	65.7	5	1707	1246	643.615	1
2	12	76.8	5	1617	1418	609.72	
3	12	64.8	5	968	1438	3.46	
4	12	91.2	5			353.68	
5	12	85.2	5	1558		142.1	
6	12	70.5	5	1544	1167	516.34	
7	12	51.1	5			458.27	
8	12	96	5	1727		730.37	
9	12	83.2	5	1028	1492	699.95	
10	12	50.9	5			712.04	
11	12	68.8	5	1294		243.6	
12	12	92.4	5	1532		474.3	

Statistics 8 (ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.5	6	1402	1262	660.483	1
2	15	52	6	1212		309.68	
3	15	61.1	6	1227		43.31	
4	15	88.8	6			770.69	
5	15	70.4	6			430.91	
6	15	60.9	6			727.54	
7	15	89	6	1719	1608	99	
8	15	50.5	6	1458	1547	180.85	
9	15	93	6	1608	1027	316.24	
10	15	53.9	6	1117		684.43	
11	15	69.9	6	1593	1917	134.61	
12	15	94.1	6	1296	1157	68.42	
13	15	51.4	6	1808		776.7	
14	15	88.8	6	1530		105.6	
15	15	56.2	6	1298		407	

Statistics 9 (ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	55.1	6	1932		447.874	1
2	17	76.8	6	1820	1599	128.997	
3	17	80.4	6	1538		455.845	
4	17	64.5	6	1691	1250	318.453	
5	17	64.7	6	998	1144	601.861	
6	17	79	6	1063		621.738	
7	17	60	6			529.346	
8	17	83.7	6	1528		681.324	
9	17	92.4	6			452.121	
10	17	73.5	6	1185	1509	590.469	
11	17	92.6	6			420.516	
12	17	69.5	6	1298		21.834	
13	17	80.2	6	1334	1576	315.922	
14	17	51.7	6	1168		275.269	
15	17	62.4	6	1910	1194	56.517	
16	17	88.6	6	1903		29.465	
17	17	74.1	6	1662		370.182	

Statistics 10 (ChirpCenter Frequency: 5270 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	99.6	5	1178	1748	236.527	0
2	15	64.4	5	988	1046	596.61	
3	15	54.2	5	1195		780.78	
4	15	83.1	5			483.01	
5	15	89.2	5			11.72	
6	15	80.3	5	1565		266.47	
7	15	63	5	1791		51	
8	15	71.3	5			270.13	
9	15	76.2	5	1323		233.09	
10	15	94.3	5	1160	1621	296.79	
11	15	87.7	5	1626	1864	400.54	
12	15	88.1	5			317.2	
13	15	56.9	5	1078		543.8	
14	15	53.6	5			90.4	
15	15	65.4	5	1803		762.5	

Statistics 11 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	51.7	5	1861	1272	161.026	1
2	20	60.1	5	1494	1053	259.958	
3	20	71.8	5	1209	1810	486.18	
4	20	60.7	5	1762	1522	513.68	
5	20	87.2	5	916	926	99.99	
6	20	85.2	5	951		565.23	
7	20	97.8	5	1402		209.79	
8	20	60.4	5			188.07	
9	20	93.5	5	1484		307.82	
10	20	89.4	5			226.68	
11	20	72	5	1073	1044	405.28	
12	20	50.6	5	981		212.33	
13	20	59.6	5	1542		252.04	
14	20	81.8	5	1151		87.94	
15	20	79.1	5			254.21	
16	20	83.8	5	1565	1240	86.77	
17	20	55.3	5	1470		587.4	
18	20	92.9	5			265.3	
19	20	52.6	5	1450		64.7	
20	20	79.8	5	1240	1349	24.7	

Statistics 12 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	80.9	5	1657		562.762	1
2	20	59.1	5	1489		487.36	
3	20	80.5	5	1208	1121	197.51	
4	20	92.5	5	1518	1620	580.4	
5	20	61.7	5	1018		159.72	
6	20	78.4	5	1100	1656	234.55	
7	20	88.5	5	1092		129.34	
8	20	77.9	5	1797		172.22	
9	20	79.3	5	1042		474.53	
10	20	96.3	5			58.61	
11	20	74.8	5	1618	1155	37.18	
12	20	58.7	5			560.52	
13	20	59.6	5	1484		542.48	
14	20	60.2	5	1617		276.43	
15	20	50.5	5			388.61	
16	20	88.9	5			108.44	
17	20	87.7	5	1715		95.06	
18	20	68	5			52.5	
19	20	52.3	5			367	
20	20	57.8	5	1714		483.2	

Statistics 13 (ChirpCenter Frequency: 5254.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	83.9	7			306.702	1
2	18	82.6	7			130.713	
3	18	84	7	1576		269.837	
4	18	64.4	7	1409	1382	245.7	
5	18	61.8	7			72.973	
6	18	65.2	7	1911	1175	235.297	
7	18	90.8	7	1509		158.85	
8	18	82.1	7	1643	1764	601.853	
9	18	83.1	7			75.617	
10	18	81.6	7			168.4	
11	18	68.1	7	1351		466.183	
12	18	79.5	7			347.027	
13	18	84.3	7	1039		612.24	
14	18	88.8	7			166.273	
15	18	73.8	7	1760	1756	659.807	
16	18	86.2	7	1903		592.3	
17	18	79.3	7			533.033	
18	18	57.6	7	1905		444.767	

Statistics 14 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	69.8	5	1469		507.244	1
2	15	96.7	5	1713		145.971	
3	15	54.8	5	1583	1924	343.02	
4	15	59.2	5	947	1847	226.34	
5	15	76.3	5	1119	1584	365.73	
6	15	96.2	5	1292	1298	656.28	
7	15	99.5	5	1052	1650	667.67	
8	15	82.5	5	1625	1555	136.26	
9	15	85.9	5			786.75	
10	15	78.7	5	1616		536.22	
11	15	73.3	5			456.62	
12	15	73.2	5	1851		22.87	
13	15	86.9	5	920		570.1	
14	15	70.3	5	1843		338	
15	15	55.3	5	1826		401.6	

Statistics 15 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	74.6	5	1375		355.44	
2	19	91.7	5	1603		229.659	
3	19	69.5	5	1767	1426	615.242	
4	19	74.7	5	1757		286.993	
5	19	55.4	5	1197		177.854	
6	19	67.1	5			235.825	
7	19	68.9	5	1473	1181	518.836	
8	19	53.7	5			95.017	
9	19	82.4	5	1470	1704	384.978	
10	19	96.4	5	1594	981	132.059	1
11	19	93.7	5	1260	1250	223.621	
12	19	82.4	5	927		77.282	
13	19	73.8	5	1164	1791	111.973	
14	19	98	5	1680		565.424	
15	19	52.2	5	1700		177.235	
16	19	60.8	5	1397		243.286	
17	19	61.6	5	1768		532.737	
18	19	96.8	5	1345		144.258	
19	19	64	5	984	959	40.379	

Statistics 16 (ChirpCenter Frequency: 5277MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	97.3	6	1334		256.425	
2	13	73.1	6	1805		499.423	
3	13	70.1	6			297.286	
4	13	78.9	6			57.059	
5	13	62	6	1752	1599	186.182	
6	13	98.5	6	1144	1431	589.225	
7	13	84	6	1445	1454	800.838	1
8	13	63.5	6	1536	1115	302.432	
9	13	71.3	6	1637		913.975	
10	13	90.5	6	1361		132.078	
11	13	73	6	1194	1613	519.651	
12	13	83.9	6	1277		56.654	
13	13	71.3	6	1596		778.577	

Statistics 17 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	61	5			297.054	1
2	18	83.7	5	1893		441.633	
3	18	60.4	5	1433		447.077	
4	18	88.9	5	1571		191.02	
5	18	51.8	5	1092		70.923	
6	18	83.5	5			473.297	
7	18	60.9	5	1390		94.95	
8	18	57.3	5	1243		88.843	
9	18	93.3	5	1523		219.407	
10	18	83.5	5	1629	1022	112.55	
11	18	85.9	5			583.103	
12	18	53.9	5	1488		536.507	
13	18	93.9	5			177.87	
14	18	70.5	5			433.163	
15	18	72.3	5	1334		374.307	
16	18	91.7	5			478.5	
17	18	88.6	5	1076	1883	633.333	
18	18	68.1	5	1168	1240	434.967	

Statistics 18 (ChirpCenter Frequency: 5254MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	10	56.5	5	1485		59.854	0
2	10	53.6	5	1089	1066	214.29	
3	10	77.7	5	932		432.98	
4	10	89.5	5	1298		1096.8	
5	10	83.4	5			573.89	
6	10	62.6	5	1499		231.44	
7	10	72.9	5	1002		576.3	
8	10	62.7	5	1494		2.18	
9	10	51.8	5	1326		565.6	
10	10	59.9	5	1390	1492	673.6	

Statistics 19 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	54.4	5			459.028	1
2	19	94.1	5			108.929	
3	19	75.7	5	1648		426.402	
4	19	68.4	5	1024	1824	576.153	
5	19	83	5	1113	1521	503.334	
6	19	60.2	5	1918	1074	592.855	
7	19	54.9	5	1705		30.716	
8	19	85.4	5	1336		57.297	
9	19	99.3	5			253.958	
10	19	97.3	5	1293	1629	353.369	
11	19	82.5	5	1367		520.181	
12	19	55.7	5	1496		260.852	
13	19	65.5	5	1620	1188	64.143	
14	19	61.9	5	1730		198.284	
15	19	92.7	5	1776	1859	305.215	
16	19	78.9	5	1166	1029	353.016	
17	19	86.4	5	1007	1497	411.637	
18	19	80.8	5	1537		386.758	
19	19	86.9	5	1090		512.579	

Statistics 20 (ChirpCenter Frequency: 5254MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	84.4	5	1730		177.565	1
2	11	75.3	5	1354		140.831	
3	11	94.7	5	1024		241.902	
4	11	51.9	5			199.483	
5	11	80.6	5	974		536.604	
6	11	60.8	5			66.335	
7	11	75	5			810.375	
8	11	74.4	5	1422	1633	944.706	
9	11	92.9	5	1708		1026.727	
10	11	66.9	5	944	1893	476.418	
11	11	79.9	5	1125		578.209	

Statistics 21 (ChirpCenter Frequency: 5285.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	97.3	6			458.123	1
2	18	61.1	6	1217		17.92	
3	18	80.6	6	1774		390.567	
4	18	64.7	6	1321	1827	402.03	
5	18	94.4	6	1688		102.873	
6	18	91.2	6	1247		20.697	
7	18	68.9	6	1102		524.29	
8	18	74.6	6	1609		84.373	
9	18	74.7	6	1227	1531	206.127	
10	18	82.6	6	1525		285.98	
11	18	81.3	6	1314		105.063	
12	18	66.6	6	1577		118.627	
13	18	86.5	6	1167	1406	422.32	
14	18	62.8	6	1919		4.333	
15	18	82.2	6	1127		150.757	
16	18	79.4	6	1452		385.7	
17	18	91.7	6			160.033	
18	18	92.5	6	1497	1571	418.467	

Statistics 22 (ChirpCenter Frequency: 5285.2 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	73.2	7	1332	1061	119.741	0
2	12	78.4	7	1401		592.27	
3	12	93.8	7			907.17	
4	12	80.5	7			294.54	
5	12	82.4	7	1415		277.74	
6	12	90.7	7	1899	1644	716.23	
7	12	56.9	7			304.14	
8	12	73.6	7	1191		372.72	
9	12	62.4	7			518.42	
10	12	98.7	7	1175	1306	453.67	
11	12	77.4	7	1266	1636	913.3	
12	12	82.7	7	1703		180.9	

Statistics 23 (ChirpCenter Frequency: 5285.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	66.6	6	1520	1572	25.653	1
2	15	78.3	6	1852		697.36	
3	15	75.2	6	1365	1829	123.48	
4	15	69	6	1302		262.33	
5	15	69.1	6			307.33	
6	15	83.7	6	1750	1075	661.38	
7	15	59.5	6	998		80.48	
8	15	88	6			700.09	
9	15	93.3	6			599.81	
10	15	51.6	6	1814	1223	239.02	
11	15	87.6	6	1745	1646	273.36	
12	15	50.2	6	1043		631.01	
13	15	76.5	6			622.9	
14	15	95.3	6	1815	1679	192.7	
15	15	53.3	6	1621		214.9	

Statistics 24 (ChirpCenter Frequency: 5286 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	90.9	5	1357	1274	242.421	1
2	19	55.5	5			478.681	
3	19	56	5			287.442	
4	19	66.3	5			117.423	
5	19	76.5	5			509.794	
6	19	68.1	5	1134	1478	496.275	
7	19	67.3	5	1484		345.666	
8	19	80	5			416.117	
9	19	77.1	5	1402		475.138	
10	19	71	5			49.539	
11	19	73	5	1402	1659	118.371	
12	19	53	5			296.112	
13	19	53.3	5	1158	1319	244.913	
14	19	82.3	5	1269	1598	279.014	
15	19	80.1	5	1803		125.335	
16	19	97.6	5	1496	1099	369.756	
17	19	80.2	5	1030	1036	393.837	
18	19	91.6	5	1290		53.358	
19	19	59.4	5	1453	1496	553.879	

Statistics 25 (ChirpCenter Frequency: 5286 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	62.3	5			513.765	1
2	16	66.7	5	1005	1547	395.91	
3	16	93.7	5	1904		46.75	
4	16	66.1	5	1828		587.25	
5	16	81.7	5	1178		259.23	
6	16	96.5	5			636.66	
7	16	68	5	1368		295.39	
8	16	72	5			662.29	
9	16	89.7	5			347.87	
10	16	53.7	5			118.81	
11	16	57.2	5	1477	1625	640.78	
12	16	75.1	5	1712		637.89	
13	16	72.3	5	969		656.01	
14	16	61.7	5	1454	1731	133.31	
15	16	78.8	5	1501		349.9	
16	16	62.6	5	1104		222.8	

Statistics 26 (ChirpCenter Frequency: 5286 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	53.5	5	1864		361.909	1
2	18	90.3	5	1884	1635	94.562	
3	18	90.8	5	1799	1234	477.417	
4	18	67.2	5	1420	1883	179.35	
5	18	68.6	5			129.343	
6	18	57.8	5	1446		21.577	
7	18	61.9	5	1812		591.39	
8	18	53.5	5	1602		363.313	
9	18	71.1	5	1850	1730	172.547	
10	18	86.7	5	1255	1714	97.23	
11	18	87.4	5	1813		129.583	
12	18	65.9	5	1486		313.197	
13	18	94.8	5	1327		46.11	
14	18	74.4	5	1728		601.613	
15	18	76.3	5	1427		68.447	
16	18	75.7	5	1545	1384	31.1	
17	18	68.3	5	1187		261.133	
18	18	88.4	5	1165		543.867	

Statistics 27 (ChirpCenter Frequency: 5286 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	94.8	5			71.018	1
2	15	92.4	5			374.62	
3	15	82.4	5	1310	923	172.44	
4	15	59.9	5	1729		756.92	
5	15	69.7	5			188.28	
6	15	51.8	5	1908	1336	581.96	
7	15	82.2	5	1531	1219	63.38	
8	15	92.4	5	1182		315.55	
9	15	67.3	5	1671		412.58	
10	15	65.9	5	1497		528.25	
11	15	86.9	5	1823		394.38	
12	15	77.7	5			646.53	
13	15	89.2	5	1149	1882	438	
14	15	81.3	5	1454		363.4	
15	15	61.8	5	1119		628.1	

Statistics 28 (ChirpCenter Frequency: 5285.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.3	6	1357		116.045	1
2	15	53.3	6			290.82	
3	15	78.5	6	1635	962	427.99	
4	15	62.9	6			119.42	
5	15	85.8	6	1479	1621	624.72	
6	15	82.9	6	1627		787.89	
7	15	89.3	6	1490	1434	48.6	
8	15	53.3	6	1740		511.01	
9	15	94.4	6	1481		267.44	
10	15	62.4	6	1512		591.08	
11	15	52.5	6			653.11	
12	15	51.8	6	1089		396.64	
13	15	96.3	6	1899		468.1	
14	15	71.4	6	1329		67.8	
15	15	53.4	6	1669	1386	640.3	

Statistics 29 (ChirpCenter Frequency: 5286 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	93.9	5	1327		10.057	1
2	18	94.4	5	1035		578.453	
3	18	66.4	5	1689		239.867	
4	18	60.1	5	1377		470.83	
5	18	89	5			205.903	
6	18	71.7	5	1336	1020	632.377	
7	18	75.5	5			326.87	
8	18	51.8	5	1314		568.403	
9	18	57.9	5			445.687	
10	18	61.2	5	1511		362.23	
11	18	61.9	5	1394		347.893	
12	18	88	5	1435		581.917	
13	18	99.6	5	1427	1455	384.42	
14	18	52.4	5	1617	1148	276.123	
15	18	83.2	5			553.187	
16	18	74.7	5	1168	1245	336.6	
17	18	53.6	5	952		53.933	
18	18	93.4	5	1116		184.867	

Statistics 30 (ChirpCenter Frequency: 5284.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	52.5	8	1096	1130	457.955	1
2	16	65.2	8			573.43	
3	16	51.5	8	1801		366.79	
4	16	84.5	8	1762	1172	689.78	
5	16	90.6	8	1109		565.93	
6	16	92.9	8	1279		391.78	
7	16	66.5	8	936		592.18	
8	16	87.1	8	1487		449.89	
9	16	76.3	8	1743	1874	163.98	
10	16	62.3	8	1168		607	
11	16	54.9	8			92.58	
12	16	83.5	8	1697		425.37	
13	16	92	8	1579		420.9	
14	16	82.9	8	1182		551.9	
15	16	72.9	8	1288	1018	689	
16	16	62.1	8			100	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5270	9	1	333	1	5453.0, 5475.0, 5297.0, 5647.0, 5534.0, 5371.0, 5553.0, 5298.0, 5469.0, 5616.0, 5598.0, 5707.0, 5665.0, 5653.0, 5295.0, 5615.0, 5427.0, 5391.0, 5467.0, 5383.0, 5549.0, 5634.0, 5252.0, 5542.0, 5514.0, 5372.0, 5496.0, 5699.0, 5388.0, 5574.0, 5569.0, 5306.0, 5666.0, 5442.0, 5261.0, 5519.0, 5575.0, 5503.0, 5350.0, 5567.0, 5341.0, 5292.0, 5551.0, 5502.0, 5550.0, 5443.0, 5431.0, 5530.0, 5404.0, 5265.0, 5652.0, 5556.0, 5625.0, 5305.0, 5377.0, 5704.0, 5486.0, 5546.0, 5436.0, 5300.0, 5352.0, 5498.0, 5671.0, 5451.0, 5554.0, 5621.0, 5386.0, 5457.0, 5309.0, 5328.0, 5266.0, 5428.0, 5338.0, 5670.0, 5474.0, 5354.0, 5583.0, 5462.0, 5547.0, 5680.0, 5269.0, 5712.0, 5363.0, 5579.0, 5291.0, 5492.0, 5521.0, 5329.0, 5301.0, 5441.0, 5459.0, 5311.0, 5576.0, 5464.0, 5282.0, 5272.0, 5332.0, 5420.0, 5258.0, 5374.0 (number of hits: 8)
2	5270	9	1	333	1	5384.0, 5376.0, 5652.0, 5719.0, 5665.0, 5335.0, 5339.0, 5532.0, 5649.0, 5635.0, 5458.0, 5658.0, 5655.0, 5639.0, 5347.0, 5710.0, 5398.0, 5444.0, 5584.0, 5703.0, 5357.0, 5616.0, 5702.0, 5503.0, 5699.0, 5455.0, 5472.0, 5673.0, 5452.0, 5479.0, 5677.0, 5713.0, 5537.0, 5453.0, 5482.0, 5641.0, 5512.0, 5418.0, 5718.0, 5659.0, 5618.0, 5547.0, 5362.0, 5684.0, 5264.0, 5571.0, 5363.0, 5563.0, 5605.0, 5510.0, 5708.0, 5582.0, 5565.0, 5660.0, 5326.0, 5576.0, 5402.0, 5322.0, 5400.0, 5705.0, 5307.0, 5645.0, 5356.0, 5683.0, 5477.0, 5330.0, 5411.0, 5386.0, 5442.0, 5478.0, 5367.0, 5638.0, 5519.0, 5651.0, 5318.0, 5592.0, 5620.0, 5419.0, 5412.0, 5408.0, 5672.0, 5480.0, 5506.0, 5450.0, 5401.0, 5449.0, 5695.0, 5289.0, 5663.0, 5396.0, 5364.0, 5471.0, 5421.0, 5688.0, 5489.0, 5653.0, 5601.0, 5517.0, 5320.0, 5409.0 (number of hits: 2)
3	5270	9	1	333	1	5543.0, 5589.0, 5598.0, 5495.0, 5297.0, 5710.0, 5317.0, 5470.0, 5438.0, 5412.0, 5593.0, 5499.0, 5577.0, 5696.0, 5370.0, 5668.0, 5279.0, 5358.0, 5318.0, 5264.0, 5413.0, 5507.0, 5701.0, 5301.0, 5558.0, 5333.0, 5573.0, 5384.0, 5402.0, 5283.0, 5666.0, 5346.0, 5656.0, 5311.0, 5334.0, 5672.0, 5523.0, 5546.0, 5518.0, 5525.0, 5583.0, 5722.0, 5340.0, 5574.0, 5354.0, 5349.0, 5300.0, 5648.0, 5393.0, 5561.0, 5312.0, 5548.0, 5465.0, 5713.0, 5463.0, 5295.0, 5262.0, 5560.0, 5642.0, 5662.0,

						5376.0, 5641.0, 5425.0, 5365.0, 5527.0, 5506.0, 5327.0, 5441.0, 5457.0, 5489.0, 5657.0, 5337.0, 5503.0, 5396.0, 5619.0, 5535.0, 5439.0, 5522.0, 5303.0, 5536.0, 5626.0, 5408.0, 5274.0, 5534.0, 5640.0, 5401.0, 5420.0, 5479.0, 5324.0, 5326.0, 5424.0, 5460.0, 5564.0, 5540.0, 5704.0, 5385.0, 5602.0, 5550.0, 5285.0, 5382.0 (number of hits: 6)
4	5270	9	1	333	1	5261.0, 5652.0, 5275.0, 5710.0, 5417.0, 5596.0, 5691.0, 5706.0, 5500.0, 5568.0, 5339.0, 5433.0, 5551.0, 5583.0, 5341.0, 5478.0, 5672.0, 5650.0, 5353.0, 5474.0, 5486.0, 5444.0, 5366.0, 5683.0, 5276.0, 5515.0, 5298.0, 5412.0, 5315.0, 5594.0, 5262.0, 5408.0, 5560.0, 5548.0, 5435.0, 5476.0, 5621.0, 5394.0, 5386.0, 5429.0, 5553.0, 5449.0, 5509.0, 5392.0, 5269.0, 5373.0, 5519.0, 5552.0, 5485.0, 5578.0, 5282.0, 5658.0, 5671.0, 5349.0, 5309.0, 5253.0, 5646.0, 5700.0, 5410.0, 5505.0, 5301.0, 5705.0, 5490.0, 5516.0, 5574.0, 5545.0, 5595.0, 5484.0, 5268.0, 5670.0, 5290.0, 5590.0, 5543.0, 5348.0, 5718.0, 5311.0, 5488.0, 5391.0, 5637.0, 5385.0, 5532.0, 5584.0, 5314.0, 5405.0, 5630.0, 5572.0, 5475.0, 5411.0, 5308.0, 5278.0, 5675.0, 5624.0, 5389.0, 5716.0, 5606.0, 5695.0, 5272.0, 5438.0, 5618.0, 5460.0 (number of hits: 10)
5	5270	9	1	333	1	5276.0, 5499.0, 5722.0, 5297.0, 5301.0, 5440.0, 5590.0, 5593.0, 5330.0, 5602.0, 5577.0, 5471.0, 5581.0, 5455.0, 5704.0, 5439.0, 5555.0, 5554.0, 5673.0, 5487.0, 5449.0, 5684.0, 5347.0, 5380.0, 5543.0, 5596.0, 5374.0, 5407.0, 5422.0, 5639.0, 5608.0, 5438.0, 5473.0, 5670.0, 5621.0, 5514.0, 5569.0, 5450.0, 5263.0, 5495.0, 5341.0, 5384.0, 5319.0, 5604.0, 5548.0, 5526.0, 5398.0, 5309.0, 5315.0, 5636.0, 5676.0, 5724.0, 5307.0, 5274.0, 5388.0, 5663.0, 5291.0, 5270.0, 5253.0, 5275.0, 5255.0, 5538.0, 5461.0, 5696.0, 5496.0, 5502.0, 5651.0, 5665.0, 5589.0, 5644.0, 5396.0, 5680.0, 5387.0, 5375.0, 5624.0, 5611.0, 5339.0, 5623.0, 5586.0, 5649.0, 5328.0, 5479.0, 5566.0, 5700.0, 5308.0, 5338.0, 5537.0, 5480.0, 5498.0, 5578.0, 5626.0, 5706.0, 5669.0, 5599.0, 5425.0, 5477.0, 5552.0, 5598.0, 5434.0, 5389.0 (number of hits: 7)
6	5270	9	1	333	1	5719.0, 5325.0, 5490.0, 5648.0, 5565.0, 5401.0, 5627.0, 5594.0, 5493.0, 5567.0, 5392.0, 5690.0, 5466.0, 5432.0, 5610.0, 5435.0, 5714.0, 5502.0, 5644.0, 5362.0, 5449.0, 5326.0, 5629.0, 5430.0, 5452.0, 5299.0, 5539.0, 5582.0, 5673.0, 5562.0, 5358.0, 5535.0, 5261.0, 5706.0, 5617.0, 5486.0, 5587.0, 5274.0, 5477.0, 5590.0, 5424.0, 5446.0, 5335.0, 5348.0, 5378.0,

						5641.0, 5572.0, 5304.0, 5569.0, 5708.0, 5626.0, 5504.0, 5374.0, 5309.0, 5413.0, 5262.0, 5404.0, 5484.0, 5625.0, 5306.0, 5550.0, 5583.0, 5260.0, 5678.0, 5688.0, 5651.0, 5720.0, 5428.0, 5298.0, 5255.0, 5347.0, 5473.0, 5459.0, 5383.0, 5284.0, 5519.0, 5635.0, 5297.0, 5271.0, 5264.0, 5356.0, 5479.0, 5281.0, 5687.0, 5621.0, 5289.0, 5573.0, 5321.0, 5489.0, 5522.0, 5273.0, 5638.0, 5433.0, 5616.0, 5577.0, 5272.0, 5598.0, 5533.0, 5658.0, 5270.0 (number of hits: 13)
7	5270	9	1	333	1	5621.0, 5493.0, 5514.0, 5671.0, 5552.0, 5576.0, 5634.0, 5577.0, 5295.0, 5470.0, 5388.0, 5547.0, 5321.0, 5641.0, 5629.0, 5692.0, 5384.0, 5302.0, 5635.0, 5637.0, 5389.0, 5449.0, 5286.0, 5471.0, 5410.0, 5702.0, 5527.0, 5413.0, 5722.0, 5693.0, 5282.0, 5423.0, 5548.0, 5323.0, 5316.0, 5359.0, 5260.0, 5463.0, 5446.0, 5365.0, 5455.0, 5386.0, 5569.0, 5603.0, 5571.0, 5482.0, 5415.0, 5353.0, 5616.0, 5469.0, 5596.0, 5310.0, 5546.0, 5281.0, 5378.0, 5608.0, 5284.0, 5510.0, 5306.0, 5650.0, 5253.0, 5366.0, 5630.0, 5525.0, 5351.0, 5486.0, 5566.0, 5585.0, 5319.0, 5519.0, 5623.0, 5632.0, 5622.0, 5326.0, 5642.0, 5344.0, 5530.0, 5508.0, 5664.0, 5502.0, 5477.0, 5496.0, 5506.0, 5265.0, 5299.0, 5559.0, 5589.0, 5592.0, 5440.0, 5376.0, 5337.0, 5668.0, 5491.0, 5651.0, 5659.0, 5599.0, 5336.0, 5267.0, 5601.0, 5662.0 (number of hits: 8)
8	5270	9	1	333	1	5533.0, 5588.0, 5656.0, 5574.0, 5647.0, 5570.0, 5439.0, 5584.0, 5464.0, 5649.0, 5381.0, 5518.0, 5431.0, 5560.0, 5712.0, 5317.0, 5262.0, 5264.0, 5702.0, 5591.0, 5370.0, 5724.0, 5717.0, 5624.0, 5593.0, 5334.0, 5299.0, 5275.0, 5710.0, 5654.0, 5398.0, 5484.0, 5617.0, 5626.0, 5632.0, 5278.0, 5400.0, 5646.0, 5645.0, 5356.0, 5261.0, 5545.0, 5532.0, 5614.0, 5425.0, 5384.0, 5251.0, 5697.0, 5567.0, 5510.0, 5686.0, 5438.0, 5580.0, 5689.0, 5290.0, 5653.0, 5498.0, 5497.0, 5575.0, 5409.0, 5256.0, 5665.0, 5562.0, 5525.0, 5269.0, 5599.0, 5391.0, 5709.0, 5596.0, 5613.0, 5346.0, 5595.0, 5569.0, 5625.0, 5696.0, 5650.0, 5454.0, 5422.0, 5276.0, 5426.0, 5460.0, 5684.0, 5452.0, 5281.0, 5597.0, 5442.0, 5480.0, 5701.0,

						5499.0, 5543.0, 5521.0, 5609.0, 5284.0, 5663.0, 5418.0, 5291.0, 5308.0, 5718.0, 5458.0, 5407.0 (number of hits: 11)
9	5270	9	1	333	1	5626.0, 5419.0, 5376.0, 5521.0, 5688.0, 5489.0, 5519.0, 5377.0, 5563.0, 5704.0, 5346.0, 5605.0, 5583.0, 5388.0, 5623.0, 5646.0, 5528.0, 5509.0, 5607.0, 5265.0, 5352.0, 5488.0, 5546.0, 5554.0, 5584.0, 5697.0, 5421.0, 5698.0, 5294.0, 5287.0, 5620.0, 5451.0, 5256.0, 5331.0, 5717.0, 5678.0, 5402.0, 5702.0, 5396.0, 5326.0, 5394.0, 5555.0, 5336.0, 5267.0, 5715.0, 5719.0, 5529.0, 5414.0, 5358.0, 5312.0, 5345.0, 5479.0, 5412.0, 5284.0, 5667.0, 5291.0, 5696.0, 5334.0, 5537.0, 5596.0, 5629.0, 5671.0, 5482.0, 5303.0, 5602.0, 5447.0, 5499.0, 5666.0, 5470.0, 5491.0, 5453.0, 5707.0, 5534.0, 5401.0, 5268.0, 5581.0, 5387.0, 5539.0, 5372.0, 5367.0, 5398.0, 5615.0, 5661.0, 5724.0, 5625.0, 5577.0, 5283.0, 5466.0, 5304.0, 5495.0, 5417.0, 5257.0, 5452.0, 5420.0, 5604.0, 5435.0, 5496.0, 5573.0, 5423.0, 5492.0 (number of hits: 8)
10	5270	9	1	333	1	5513.0, 5364.0, 5322.0, 5451.0, 5405.0, 5289.0, 5368.0, 5268.0, 5622.0, 5456.0, 5434.0, 5464.0, 5642.0, 5703.0, 5258.0, 5596.0, 5623.0, 5332.0, 5487.0, 5371.0, 5658.0, 5366.0, 5678.0, 5602.0, 5315.0, 5605.0, 5553.0, 5424.0, 5547.0, 5376.0, 5514.0, 5476.0, 5700.0, 5491.0, 5581.0, 5558.0, 5398.0, 5655.0, 5610.0, 5414.0, 5679.0, 5570.0, 5681.0, 5305.0, 5303.0, 5640.0, 5519.0, 5333.0, 5369.0, 5311.0, 5293.0, 5497.0, 5560.0, 5356.0, 5677.0, 5550.0, 5601.0, 5713.0, 5566.0, 5292.0, 5317.0, 5401.0, 5423.0, 5541.0, 5493.0, 5468.0, 5297.0, 5257.0, 5316.0, 5370.0, 5295.0, 5418.0, 5706.0, 5285.0, 5494.0, 5360.0, 5675.0, 5626.0, 5506.0, 5628.0, 5420.0, 5592.0, 5501.0, 5666.0, 5334.0, 5473.0, 5575.0, 5465.0, 5630.0, 5349.0, 5264.0, 5482.0, 5597.0, 5716.0, 5388.0, 5671.0, 5582.0, 5287.0, 5618.0, 5686.0 (number of hits: 7)
11	5270	9	1	333	1	5703.0, 5469.0, 5441.0, 5630.0, 5263.0, 5647.0, 5681.0, 5666.0, 5476.0, 5340.0, 5318.0, 5403.0, 5682.0, 5554.0, 5449.0, 5559.0,

						5623.0, 5382.0, 5581.0, 5633.0, 5542.0, 5434.0, 5652.0, 5566.0, 5675.0, 5407.0, 5527.0, 5659.0, 5606.0, 5365.0, 5350.0, 5375.0, 5525.0, 5690.0, 5503.0, 5691.0, 5272.0, 5711.0, 5427.0, 5512.0, 5491.0, 5395.0, 5319.0, 5270.0, 5570.0, 5291.0, 5553.0, 5368.0, 5721.0, 5289.0, 5293.0, 5349.0, 5514.0, 5621.0, 5297.0, 5470.0, 5402.0, 5312.0, 5251.0, 5723.0, 5629.0, 5692.0, 5677.0, 5432.0, 5500.0, 5567.0, 5698.0, 5620.0, 5409.0, 5619.0, 5483.0, 5440.0, 5455.0, 5256.0, 5550.0, 5494.0, 5549.0, 5634.0, 5447.0, 5277.0, 5530.0, 5720.0, 5337.0, 5580.0, 5315.0, 5346.0, 5461.0, 5276.0, 5302.0, 5361.0, 5304.0, 5344.0, 5394.0, 5501.0, 5435.0, 5597.0, 5684.0, 5283.0, 5610.0, 5614.0 (number of hits: 9)
12	5270	9	1	333	1	5426.0, 5489.0, 5425.0, 5575.0, 5678.0, 5570.0, 5672.0, 5716.0, 5677.0, 5484.0, 5571.0, 5440.0, 5468.0, 5280.0, 5427.0, 5343.0, 5610.0, 5376.0, 5643.0, 5586.0, 5429.0, 5265.0, 5365.0, 5460.0, 5282.0, 5633.0, 5322.0, 5564.0, 5632.0, 5278.0, 5552.0, 5361.0, 5449.0, 5436.0, 5454.0, 5492.0, 5306.0, 5711.0, 5687.0, 5515.0, 5665.0, 5568.0, 5715.0, 5649.0, 5589.0, 5655.0, 5714.0, 5601.0, 5326.0, 5669.0, 5563.0, 5679.0, 5560.0, 5362.0, 5366.0, 5707.0, 5302.0, 5554.0, 5699.0, 5250.0, 5637.0, 5463.0, 5631.0, 5503.0, 5258.0, 5375.0, 5315.0, 5605.0, 5683.0, 5293.0, 5314.0, 5697.0, 5660.0, 5371.0, 5520.0, 5433.0, 5636.0, 5385.0, 5635.0, 5514.0, 5435.0, 5691.0, 5701.0, 5713.0, 5619.0, 5540.0, 5325.0, 5381.0, 5525.0, 5469.0, 5651.0, 5548.0, 5334.0, 5577.0, 5595.0, 5409.0, 5602.0, 5458.0, 5648.0, 5419.0 (number of hits: 6)
13	5270	9	1	333	1	5535.0, 5285.0, 5607.0, 5618.0, 5276.0, 5453.0, 5392.0, 5458.0, 5378.0, 5464.0, 5415.0, 5499.0, 5585.0, 5436.0, 5493.0, 5724.0, 5554.0, 5630.0, 5403.0, 5385.0, 5401.0, 5650.0, 5530.0, 5602.0, 5406.0, 5628.0, 5383.0, 5270.0, 5268.0, 5322.0, 5423.0, 5599.0, 5705.0, 5324.0, 5316.0, 5470.0, 5701.0, 5254.0, 5651.0, 5402.0, 5348.0, 5380.0, 5706.0, 5454.0, 5604.0, 5518.0, 5516.0, 5572.0,

						5488.0, 5636.0, 5399.0, 5482.0, 5679.0, 5416.0, 5360.0, 5262.0, 5501.0, 5649.0, 5418.0, 5697.0, 5605.0, 5263.0, 5720.0, 5681.0, 5319.0, 5558.0, 5377.0, 5635.0, 5281.0, 5256.0, 5286.0, 5306.0, 5390.0, 5576.0, 5355.0, 5509.0, 5666.0, 5337.0, 5606.0, 5677.0, 5586.0, 5709.0, 5704.0, 5692.0, 5590.0, 5637.0, 5539.0, 5384.0, 5603.0, 5624.0, 5698.0, 5718.0, 5424.0, 5328.0, 5594.0, 5274.0, 5521.0, 5551.0, 5438.0, 5714.0 (number of hits: 11)
14	5270	9	1	333	1	5440.0, 5470.0, 5465.0, 5697.0, 5518.0, 5614.0, 5597.0, 5376.0, 5633.0, 5544.0, 5659.0, 5612.0, 5490.0, 5642.0, 5403.0, 5341.0, 5605.0, 5568.0, 5323.0, 5586.0, 5457.0, 5626.0, 5585.0, 5446.0, 5453.0, 5512.0, 5621.0, 5569.0, 5521.0, 5333.0, 5350.0, 5500.0, 5584.0, 5276.0, 5428.0, 5288.0, 5479.0, 5616.0, 5608.0, 5462.0, 5432.0, 5397.0, 5669.0, 5494.0, 5635.0, 5321.0, 5524.0, 5351.0, 5646.0, 5261.0, 5330.0, 5502.0, 5382.0, 5598.0, 5673.0, 5553.0, 5439.0, 5665.0, 5338.0, 5574.0, 5472.0, 5460.0, 5708.0, 5703.0, 5717.0, 5699.0, 5268.0, 5657.0, 5718.0, 5538.0, 5592.0, 5489.0, 5624.0, 5448.0, 5394.0, 5541.0, 5695.0, 5458.0, 5656.0, 5571.0, 5636.0, 5283.0, 5623.0, 5510.0, 5296.0, 5707.0, 5483.0, 5401.0, 5442.0, 5404.0, 5343.0, 5686.0, 5588.0, 5320.0, 5420.0, 5668.0, 5615.0, 5342.0, 5709.0, 5328.0 (number of hits: 5)
15	5270	9	1	333	1	5682.0, 5433.0, 5360.0, 5298.0, 5322.0, 5410.0, 5331.0, 5692.0, 5466.0, 5346.0, 5636.0, 5318.0, 5498.0, 5541.0, 5607.0, 5359.0, 5640.0, 5509.0, 5303.0, 5694.0, 5425.0, 5642.0, 5299.0, 5411.0, 5403.0, 5380.0, 5293.0, 5585.0, 5526.0, 5510.0, 5353.0, 5269.0, 5445.0, 5477.0, 5512.0, 5366.0, 5302.0, 5348.0, 5596.0, 5665.0, 5263.0, 5377.0, 5668.0, 5635.0, 5714.0, 5436.0, 5280.0, 5441.0, 5650.0, 5643.0, 5521.0, 5676.0, 5434.0, 5399.0, 5387.0, 5272.0, 5476.0, 5281.0, 5720.0, 5420.0, 5339.0, 5457.0, 5409.0, 5673.0, 5288.0, 5284.0, 5250.0, 5254.0, 5557.0, 5683.0, 5316.0, 5677.0, 5518.0, 5703.0, 5347.0, 5603.0, 5623.0, 5641.0, 5501.0, 5252.0,

						5469.0, 5647.0, 5637.0, 5533.0, 5600.0, 5690.0, 5565.0, 5305.0, 5536.0, 5257.0, 5628.0, 5260.0, 5325.0, 5273.0, 5307.0, 5617.0, 5544.0, 5555.0, 5679.0, 5486.0 (number of hits: 13)
16	5270	9	1	333	1	5356.0, 5711.0, 5593.0, 5637.0, 5697.0, 5686.0, 5449.0, 5549.0, 5521.0, 5371.0, 5672.0, 5543.0, 5390.0, 5409.0, 5640.0, 5536.0, 5421.0, 5656.0, 5723.0, 5625.0, 5457.0, 5497.0, 5602.0, 5661.0, 5606.0, 5569.0, 5560.0, 5599.0, 5306.0, 5515.0, 5441.0, 5330.0, 5572.0, 5689.0, 5618.0, 5605.0, 5262.0, 5671.0, 5367.0, 5582.0, 5320.0, 5570.0, 5415.0, 5359.0, 5592.0, 5721.0, 5354.0, 5685.0, 5722.0, 5411.0, 5471.0, 5434.0, 5447.0, 5305.0, 5571.0, 5402.0, 5384.0, 5591.0, 5545.0, 5717.0, 5585.0, 5442.0, 5705.0, 5648.0, 5580.0, 5644.0, 5680.0, 5321.0, 5329.0, 5510.0, 5479.0, 5425.0, 5267.0, 5296.0, 5332.0, 5716.0, 5706.0, 5509.0, 5278.0, 5324.0, 5347.0, 5583.0, 5368.0, 5276.0, 5287.0, 5547.0, 5410.0, 5375.0, 5394.0, 5352.0, 5280.0, 5607.0, 5469.0, 5266.0, 5720.0, 5664.0, 5704.0, 5520.0, 5516.0, 5555.0 (number of hits: 7)
17	5270	9	1	333	1	5255.0, 5293.0, 5597.0, 5462.0, 5270.0, 5275.0, 5533.0, 5566.0, 5371.0, 5269.0, 5545.0, 5383.0, 5658.0, 5615.0, 5703.0, 5505.0, 5329.0, 5449.0, 5341.0, 5482.0, 5596.0, 5337.0, 5529.0, 5373.0, 5404.0, 5460.0, 5546.0, 5401.0, 5430.0, 5542.0, 5282.0, 5612.0, 5520.0, 5458.0, 5669.0, 5559.0, 5547.0, 5414.0, 5478.0, 5632.0, 5415.0, 5614.0, 5659.0, 5354.0, 5557.0, 5684.0, 5627.0, 5290.0, 5705.0, 5322.0, 5497.0, 5525.0, 5276.0, 5389.0, 5544.0, 5370.0, 5551.0, 5277.0, 5672.0, 5425.0, 5378.0, 5532.0, 5320.0, 5584.0, 5492.0, 5365.0, 5716.0, 5537.0, 5680.0, 5442.0, 5671.0, 5629.0, 5651.0, 5498.0, 5715.0, 5515.0, 5543.0, 5467.0, 5323.0, 5484.0, 5664.0, 5299.0, 5526.0, 5575.0, 5405.0, 5536.0, 5289.0, 5709.0, 5359.0, 5356.0, 5518.0, 5673.0, 5681.0, 5503.0, 5697.0, 5499.0, 5464.0, 5549.0, 5649.0, 5490.0 (number of hits: 8)
18	5270	9	1	333	1	5383.0, 5289.0, 5516.0, 5487.0, 5273.0, 5544.0, 5458.0, 5363.0,

						5311.0, 5323.0, 5510.0, 5690.0, 5426.0, 5280.0, 5300.0, 5701.0, 5299.0, 5713.0, 5528.0, 5291.0, 5684.0, 5279.0, 5421.0, 5359.0, 5716.0, 5385.0, 5640.0, 5720.0, 5476.0, 5588.0, 5271.0, 5481.0, 5400.0, 5483.0, 5333.0, 5594.0, 5506.0, 5650.0, 5357.0, 5648.0, 5633.0, 5447.0, 5408.0, 5403.0, 5282.0, 5478.0, 5688.0, 5425.0, 5638.0, 5591.0, 5462.0, 5596.0, 5603.0, 5661.0, 5259.0, 5642.0, 5284.0, 5267.0, 5353.0, 5416.0, 5524.0, 5257.0, 5712.0, 5519.0, 5575.0, 5602.0, 5553.0, 5694.0, 5404.0, 5375.0, 5568.0, 5265.0, 5283.0, 5398.0, 5376.0, 5331.0, 5475.0, 5297.0, 5328.0, 5646.0, 5454.0, 5570.0, 5707.0, 5599.0, 5453.0, 5312.0, 5302.0, 5554.0, 5349.0, 5673.0, 5465.0, 5418.0, 5290.0, 5561.0, 5305.0, 5496.0, 5653.0, 5580.0, 5379.0, 5464.0 (number of hits: 12)
19	5270	9	1	333	1	5319.0, 5693.0, 5365.0, 5360.0, 5703.0, 5539.0, 5461.0, 5680.0, 5513.0, 5582.0, 5718.0, 5545.0, 5599.0, 5297.0, 5421.0, 5515.0, 5558.0, 5642.0, 5466.0, 5712.0, 5579.0, 5262.0, 5442.0, 5650.0, 5302.0, 5571.0, 5716.0, 5636.0, 5370.0, 5457.0, 5695.0, 5252.0, 5414.0, 5417.0, 5278.0, 5257.0, 5300.0, 5561.0, 5541.0, 5516.0, 5559.0, 5623.0, 5534.0, 5415.0, 5446.0, 5550.0, 5533.0, 5672.0, 5578.0, 5279.0, 5686.0, 5683.0, 5458.0, 5358.0, 5489.0, 5724.0, 5292.0, 5491.0, 5459.0, 5329.0, 5382.0, 5656.0, 5588.0, 5314.0, 5351.0, 5529.0, 5307.0, 5378.0, 5492.0, 5719.0, 5296.0, 5607.0, 5258.0, 5462.0, 5605.0, 5611.0, 5630.0, 5326.0, 5294.0, 5352.0, 5546.0, 5535.0, 5581.0, 5613.0, 5497.0, 5471.0, 5614.0, 5666.0, 5688.0, 5647.0, 5697.0, 5438.0, 5507.0, 5654.0, 5514.0, 5518.0, 5286.0, 5289.0, 5493.0, 5271.0 (number of hits: 9)
20	5270	9	1	333	1	5686.0, 5668.0, 5653.0, 5716.0, 5591.0, 5481.0, 5590.0, 5484.0, 5493.0, 5550.0, 5311.0, 5443.0, 5638.0, 5375.0, 5641.0, 5428.0, 5640.0, 5548.0, 5280.0, 5649.0, 5449.0, 5256.0, 5290.0, 5365.0, 5410.0, 5361.0, 5389.0, 5433.0, 5273.0, 5672.0, 5661.0, 5689.0, 5665.0, 5430.0, 5494.0, 5559.0, 5538.0, 5542.0, 5694.0, 5488.0,

						5519.0, 5654.0, 5676.0, 5678.0, 5448.0, 5284.0, 5366.0, 5308.0, 5509.0, 5286.0, 5621.0, 5631.0, 5402.0, 5512.0, 5660.0, 5312.0, 5376.0, 5502.0, 5364.0, 5345.0, 5537.0, 5288.0, 5576.0, 5702.0, 5453.0, 5301.0, 5455.0, 5321.0, 5292.0, 5454.0, 5362.0, 5360.0, 5408.0, 5596.0, 5319.0, 5699.0, 5356.0, 5470.0, 5275.0, 5383.0, 5429.0, 5258.0, 5532.0, 5335.0, 5466.0, 5271.0, 5295.0, 5269.0, 5680.0, 5438.0, 5444.0, 5583.0, 5409.0, 5650.0, 5592.0, 5525.0, 5268.0, 5374.0, 5285.0, 5711.0 (number of hits: 12)
21	5270	9	1	333	1	5680.0, 5668.0, 5378.0, 5278.0, 5338.0, 5716.0, 5533.0, 5429.0, 5600.0, 5427.0, 5416.0, 5646.0, 5329.0, 5307.0, 5585.0, 5684.0, 5318.0, 5438.0, 5357.0, 5475.0, 5466.0, 5626.0, 5370.0, 5579.0, 5253.0, 5395.0, 5386.0, 5256.0, 5672.0, 5689.0, 5642.0, 5708.0, 5656.0, 5676.0, 5324.0, 5586.0, 5575.0, 5593.0, 5400.0, 5576.0, 5488.0, 5522.0, 5369.0, 5604.0, 5425.0, 5315.0, 5606.0, 5463.0, 5650.0, 5664.0, 5421.0, 5594.0, 5468.0, 5507.0, 5615.0, 5538.0, 5500.0, 5433.0, 5335.0, 5616.0, 5691.0, 5721.0, 5445.0, 5464.0, 5601.0, 5658.0, 5452.0, 5469.0, 5417.0, 5350.0, 5543.0, 5263.0, 5363.0, 5393.0, 5495.0, 5472.0, 5333.0, 5343.0, 5435.0, 5470.0, 5451.0, 5264.0, 5342.0, 5267.0, 5510.0, 5557.0, 5514.0, 5273.0, 5595.0, 5698.0, 5669.0, 5283.0, 5589.0, 5271.0, 5605.0, 5392.0, 5332.0, 5636.0, 5286.0, 5588.0 (number of hits: 10)
22	5270	9	1	333	1	5315.0, 5272.0, 5308.0, 5723.0, 5480.0, 5631.0, 5499.0, 5565.0, 5326.0, 5719.0, 5407.0, 5704.0, 5491.0, 5717.0, 5348.0, 5283.0, 5506.0, 5554.0, 5585.0, 5686.0, 5590.0, 5617.0, 5475.0, 5681.0, 5568.0, 5419.0, 5489.0, 5346.0, 5709.0, 5314.0, 5531.0, 5592.0, 5391.0, 5261.0, 5711.0, 5511.0, 5720.0, 5358.0, 5260.0, 5395.0, 5355.0, 5430.0, 5482.0, 5569.0, 5405.0, 5449.0, 5427.0, 5574.0, 5443.0, 5579.0, 5469.0, 5558.0, 5510.0, 5485.0, 5638.0, 5667.0, 5508.0, 5334.0, 5627.0, 5280.0, 5402.0, 5472.0, 5307.0, 5460.0, 5572.0, 5613.0, 5255.0, 5541.0, 5703.0, 5591.0, 5496.0, 5643.0,

						5570.0, 5452.0, 5281.0, 5654.0, 5269.0, 5341.0, 5329.0, 5253.0, 5609.0, 5582.0, 5663.0, 5453.0, 5388.0, 5361.0, 5688.0, 5606.0, 5640.0, 5325.0, 5303.0, 5660.0, 5702.0, 5682.0, 5320.0, 5415.0, 5328.0, 5520.0, 5536.0, 5503.0 (number of hits: 9)
23	5270	9	1	333	1	5287.0, 5576.0, 5269.0, 5494.0, 5285.0, 5490.0, 5652.0, 5369.0, 5506.0, 5342.0, 5710.0, 5355.0, 5258.0, 5295.0, 5589.0, 5438.0, 5714.0, 5390.0, 5474.0, 5608.0, 5650.0, 5701.0, 5686.0, 5543.0, 5640.0, 5367.0, 5692.0, 5525.0, 5378.0, 5547.0, 5471.0, 5708.0, 5394.0, 5300.0, 5329.0, 5326.0, 5597.0, 5601.0, 5602.0, 5534.0, 5518.0, 5352.0, 5290.0, 5262.0, 5691.0, 5573.0, 5358.0, 5299.0, 5412.0, 5562.0, 5482.0, 5457.0, 5256.0, 5707.0, 5420.0, 5532.0, 5612.0, 5657.0, 5503.0, 5696.0, 5585.0, 5600.0, 5721.0, 5683.0, 5512.0, 5538.0, 5541.0, 5587.0, 5488.0, 5476.0, 5453.0, 5715.0, 5392.0, 5548.0, 5440.0, 5559.0, 5428.0, 5293.0, 5463.0, 5486.0, 5411.0, 5406.0, 5468.0, 5675.0, 5427.0, 5499.0, 5429.0, 5318.0, 5516.0, 5380.0, 5364.0, 5702.0, 5279.0, 5492.0, 5284.0, 5522.0, 5259.0, 5384.0, 5665.0, 5454.0 (number of hits: 9)
24	5270	9	1	333	1	5653.0, 5447.0, 5464.0, 5599.0, 5502.0, 5436.0, 5329.0, 5441.0, 5651.0, 5640.0, 5703.0, 5509.0, 5564.0, 5699.0, 5578.0, 5437.0, 5612.0, 5626.0, 5543.0, 5412.0, 5286.0, 5600.0, 5316.0, 5370.0, 5334.0, 5657.0, 5702.0, 5389.0, 5678.0, 5309.0, 5399.0, 5579.0, 5608.0, 5532.0, 5487.0, 5343.0, 5307.0, 5265.0, 5435.0, 5393.0, 5558.0, 5616.0, 5583.0, 5463.0, 5691.0, 5333.0, 5368.0, 5705.0, 5520.0, 5666.0, 5566.0, 5357.0, 5425.0, 5294.0, 5669.0, 5293.0, 5707.0, 5404.0, 5392.0, 5684.0, 5690.0, 5362.0, 5397.0, 5431.0, 5427.0, 5352.0, 5266.0, 5268.0, 5675.0, 5321.0, 5287.0, 5550.0, 5636.0, 5457.0, 5527.0, 5637.0, 5475.0, 5619.0, 5438.0, 5698.0, 5433.0, 5494.0, 5665.0, 5526.0, 5418.0, 5658.0, 5376.0, 5432.0, 5348.0, 5416.0, 5514.0, 5477.0, 5706.0, 5639.0, 5646.0, 5301.0, 5674.0, 5322.0, 5529.0, 5289.0 (number of hits: 6)

25	5270	9	1	333	1	5590.0, 5709.0, 5274.0, 5602.0, 5397.0, 5604.0, 5693.0, 5498.0, 5595.0, 5670.0, 5707.0, 5564.0, 5657.0, 5720.0, 5319.0, 5330.0, 5598.0, 5257.0, 5489.0, 5596.0, 5665.0, 5377.0, 5416.0, 5540.0, 5386.0, 5714.0, 5385.0, 5549.0, 5479.0, 5574.0, 5542.0, 5298.0, 5654.0, 5368.0, 5715.0, 5272.0, 5689.0, 5453.0, 5393.0, 5476.0, 5343.0, 5435.0, 5310.0, 5346.0, 5493.0, 5703.0, 5671.0, 5620.0, 5656.0, 5652.0, 5627.0, 5608.0, 5444.0, 5273.0, 5472.0, 5597.0, 5402.0, 5331.0, 5295.0, 5643.0, 5673.0, 5508.0, 5610.0, 5421.0, 5568.0, 5616.0, 5380.0, 5635.0, 5626.0, 5349.0, 5537.0, 5664.0, 5384.0, 5509.0, 5358.0, 5606.0, 5621.0, 5447.0, 5696.0, 5433.0, 5505.0, 5394.0, 5286.0, 5345.0, 5491.0, 5269.0, 5259.0, 5573.0, 5711.0, 5475.0, 5700.0, 5565.0, 5462.0, 5706.0, 5494.0, 5342.0, 5436.0, 5369.0, 5551.0, 5302.0 (number of hits: 7)
26	5270	9	1	333	1	5710.0, 5252.0, 5663.0, 5351.0, 5333.0, 5568.0, 5408.0, 5528.0, 5398.0, 5444.0, 5390.0, 5711.0, 5409.0, 5650.0, 5464.0, 5414.0, 5582.0, 5450.0, 5354.0, 5451.0, 5529.0, 5652.0, 5286.0, 5542.0, 5510.0, 5509.0, 5617.0, 5612.0, 5331.0, 5320.0, 5717.0, 5363.0, 5547.0, 5274.0, 5280.0, 5380.0, 5446.0, 5296.0, 5273.0, 5334.0, 5281.0, 5458.0, 5712.0, 5682.0, 5546.0, 5560.0, 5584.0, 5308.0, 5660.0, 5344.0, 5532.0, 5399.0, 5257.0, 5401.0, 5707.0, 5525.0, 5604.0, 5326.0, 5621.0, 5622.0, 5368.0, 5330.0, 5265.0, 5571.0, 5462.0, 5258.0, 5658.0, 5317.0, 5454.0, 5256.0, 5370.0, 5264.0, 5488.0, 5336.0, 5490.0, 5412.0, 5697.0, 5541.0, 5272.0, 5325.0, 5291.0, 5307.0, 5347.0, 5379.0, 5593.0, 5470.0, 5312.0, 5688.0, 5573.0, 5410.0, 5263.0, 5613.0, 5615.0, 5564.0, 5552.0, 5539.0, 5506.0, 5598.0, 5417.0, 5413.0 (number of hits: 13)
27	5270	9	1	333	1	5691.0, 5257.0, 5707.0, 5473.0, 5665.0, 5517.0, 5631.0, 5482.0, 5331.0, 5475.0, 5277.0, 5368.0, 5553.0, 5600.0, 5708.0, 5488.0, 5635.0, 5718.0, 5551.0, 5393.0, 5278.0, 5637.0, 5595.0, 5291.0, 5617.0, 5299.0, 5586.0, 5381.0, 5711.0, 5348.0, 5265.0, 5713.0,

						5634.0, 5705.0, 5667.0, 5599.0, 5522.0, 5295.0, 5518.0, 5350.0, 5468.0, 5575.0, 5565.0, 5281.0, 5404.0, 5574.0, 5451.0, 5582.0, 5689.0, 5605.0, 5578.0, 5279.0, 5649.0, 5534.0, 5633.0, 5535.0, 5715.0, 5568.0, 5550.0, 5486.0, 5650.0, 5495.0, 5387.0, 5642.0, 5685.0, 5431.0, 5619.0, 5516.0, 5657.0, 5276.0, 5293.0, 5722.0, 5510.0, 5294.0, 5296.0, 5361.0, 5694.0, 5267.0, 5373.0, 5269.0, 5659.0, 5540.0, 5409.0, 5287.0, 5557.0, 5465.0, 5576.0, 5352.0, 5496.0, 5275.0, 5613.0, 5481.0, 5494.0, 5520.0, 5301.0, 5280.0, 5272.0, 5314.0, 5687.0, 5442.0 (number of hits: 13)
28	5270	9	1	333	1	5297.0, 5679.0, 5497.0, 5478.0, 5368.0, 5264.0, 5286.0, 5394.0, 5561.0, 5308.0, 5301.0, 5626.0, 5309.0, 5318.0, 5442.0, 5403.0, 5555.0, 5457.0, 5619.0, 5595.0, 5487.0, 5558.0, 5420.0, 5424.0, 5453.0, 5321.0, 5367.0, 5278.0, 5270.0, 5641.0, 5604.0, 5431.0, 5672.0, 5554.0, 5689.0, 5594.0, 5564.0, 5659.0, 5466.0, 5645.0, 5376.0, 5596.0, 5681.0, 5684.0, 5658.0, 5377.0, 5387.0, 5640.0, 5456.0, 5673.0, 5635.0, 5303.0, 5676.0, 5624.0, 5618.0, 5518.0, 5609.0, 5517.0, 5605.0, 5345.0, 5587.0, 5274.0, 5359.0, 5511.0, 5531.0, 5600.0, 5254.0, 5527.0, 5718.0, 5435.0, 5590.0, 5449.0, 5719.0, 5515.0, 5508.0, 5506.0, 5287.0, 5357.0, 5327.0, 5542.0, 5584.0, 5454.0, 5579.0, 5598.0, 5653.0, 5333.0, 5510.0, 5481.0, 5597.0, 5706.0, 5692.0, 5495.0, 5353.0, 5284.0, 5268.0, 5325.0, 5289.0, 5300.0, 5686.0, 5362.0 (number of hits: 10)
29	5270	9	1	333	1	5621.0, 5395.0, 5618.0, 5680.0, 5443.0, 5550.0, 5253.0, 5634.0, 5351.0, 5671.0, 5368.0, 5517.0, 5599.0, 5383.0, 5700.0, 5686.0, 5473.0, 5320.0, 5321.0, 5656.0, 5330.0, 5452.0, 5487.0, 5545.0, 5532.0, 5652.0, 5648.0, 5620.0, 5341.0, 5323.0, 5617.0, 5258.0, 5448.0, 5549.0, 5704.0, 5698.0, 5629.0, 5570.0, 5631.0, 5622.0, 5663.0, 5538.0, 5427.0, 5567.0, 5274.0, 5484.0, 5387.0, 5566.0, 5611.0, 5650.0, 5316.0, 5364.0, 5584.0, 5688.0, 5431.0, 5382.0, 5518.0, 5299.0, 5709.0, 5496.0, 5537.0, 5343.0, 5559.0, 5384.0,

						5438.0, 5500.0, 5435.0, 5691.0, 5571.0, 5297.0, 5415.0, 5340.0, 5510.0, 5689.0, 5348.0, 5578.0, 5329.0, 5552.0, 5604.0, 5659.0, 5437.0, 5467.0, 5267.0, 5557.0, 5373.0, 5623.0, 5534.0, 5407.0, 5345.0, 5260.0, 5357.0, 5408.0, 5697.0, 5717.0, 5286.0, 5542.0, 5536.0, 5374.0, 5346.0, 5603.0 (number of hits: 6)
30	5270	9	1	333	1	5325.0, 5426.0, 5315.0, 5620.0, 5376.0, 5709.0, 5665.0, 5681.0, 5390.0, 5680.0, 5506.0, 5472.0, 5476.0, 5670.0, 5515.0, 5256.0, 5528.0, 5254.0, 5455.0, 5415.0, 5328.0, 5635.0, 5298.0, 5481.0, 5348.0, 5400.0, 5691.0, 5568.0, 5572.0, 5625.0, 5302.0, 5352.0, 5614.0, 5544.0, 5532.0, 5503.0, 5519.0, 5393.0, 5543.0, 5627.0, 5708.0, 5556.0, 5513.0, 5656.0, 5411.0, 5422.0, 5293.0, 5504.0, 5457.0, 5561.0, 5319.0, 5406.0, 5491.0, 5719.0, 5716.0, 5401.0, 5610.0, 5615.0, 5386.0, 5693.0, 5332.0, 5398.0, 5477.0, 5622.0, 5710.0, 5624.0, 5689.0, 5643.0, 5541.0, 5640.0, 5489.0, 5383.0, 5459.0, 5467.0, 5632.0, 5636.0, 5483.0, 5460.0, 5557.0, 5356.0, 5410.0, 5317.0, 5723.0, 5346.0, 5420.0, 5399.0, 5306.0, 5654.0, 5389.0, 5604.0, 5305.0, 5520.0, 5405.0, 5344.0, 5555.0, 5575.0, 5442.0, 5266.0, 5498.0, 5418.0 (number of hits: 3)

80MHz,

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	100%	60%	pass
Type 1B	15	100%		
Type 2	30	83.3 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	96.7 %	60%	Pass
Aggregate(Type1 to 4)	120	94.2 %	80%	Pass
Type 5	30	86.6%	80%	Pass
Type 6	30	96.7 %	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	70	1	758	1
2	5290	86	1	618	1
3	5290	92	1	578	1
4	5290	63	1	838	1
5	5290	61	1	878	1
6	5290	95	1	558	1
7	5290	89	1	598	1
8	5290	57	1	938	1
9	5290	81	1	658	1
10	5290	68	1	778	1
11	5290	76	1	698	1
12	5290	58	1	918	1
13	5290	78	1	678	1
14	5290	65	1	818	1
15	5290	99	1	538	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	19	1	2911	1
2	5290	31	1	1716	1
3	5290	37	1	1432	1
4	5290	19	1	2901	1
5	5290	45	1	1174	1
6	5290	67	1	799	1
7	5290	94	1	565	1
8	5290	21	1	2567	1
9	5290	46	1	1162	1
10	5290	20	1	2723	1
11	5290	23	1	2341	1
12	5290	28	1	1939	1
13	5290	23	1	2390	1
14	5290	20	1	2716	1
15	5290	56	1	949	1
Detection Percentage: 100 % (>60%)					

Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	23	2.1	222	1
2	5290	25	1.6	210	1
3	5290	28	3.2	164	1
4	5290	25	2.7	199	1
5	5290	25	3.4	181	1
6	5290	29	4.8	168	1
7	5290	26	3.1	203	0
8	5290	27	4.7	214	1
9	5290	25	4.9	151	1
10	5290	29	2.2	156	1
11	5290	25	3	188	1
12	5290	26	1.2	208	1
13	5290	23	4.5	153	0
14	5290	27	2	216	1
15	5290	25	1.1	216	0
16	5290	26	4.2	220	1
17	5290	27	3.9	202	1
18	5290	29	2.8	188	1
19	5290	28	4.9	176	1
20	5290	24	1.5	179	1
21	5290	29	3.7	193	0
22	5290	29	4.2	191	1
23	5290	27	5	209	1
24	5290	25	2.7	180	0
25	5290	28	2.8	209	1
26	5290	29	3	218	1
27	5290	28	4.9	207	1
28	5290	26	4	195	1
29	5290	23	4.2	226	1
30	5290	29	2.7	177	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	5290	17	8.6	268	1
2	5290	17	9.9	316	1
3	5290	17	8.1	262	1
4	5290	18	9.9	497	1
5	5290	18	6	361	1
6	5290	18	8.8	434	1
7	5290	16	7.8	309	1
8	5290	18	9.2	482	1
9	5290	17	6.1	361	1
10	5290	18	6.5	397	1
11	5290	18	9.1	489	1
12	5290	16	8.2	333	1
13	5290	18	6.9	356	1
14	5290	17	8.6	337	1
15	5290	17	7.3	309	1
16	5290	17	8.3	266	1
17	5290	17	6.3	479	1
18	5290	18	8.7	487	1
19	5290	16	8.3	419	1
20	5290	17	7.3	381	1
21	5290	18	8.5	397	1
22	5290	16	7.6	332	0
23	5290	18	9.6	492	1
24	5290	17	7.8	363	1
25	5290	18	6.7	431	1
26	5290	18	8.5	357	1
27	5290	16	9.1	453	1
28	5290	16	8.7	354	1
29	5290	16	8	293	1
30	5290	16	6.2	341	1
Detection Percentage: 96.7 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	15	14.9	456	1
2	5290	13	19	277	1
3	5290	14	14.1	299	1
4	5290	13	13.5	332	1
5	5290	16	16	416	1
6	5290	15	13.8	243	1
7	5290	13	17.5	282	1
8	5290	13	12.3	421	1
9	5290	16	14.1	224	1
10	5290	16	13.6	346	1
11	5290	16	17.6	467	1
12	5290	15	13.8	471	1
13	5290	13	14.7	321	1
14	5290	16	12.1	343	1
15	5290	16	14.8	349	1
16	5290	13	14.7	288	1
17	5290	16	13.3	458	0
18	5290	14	13.8	252	1
19	5290	12	17.3	311	1
20	5290	16	16.5	449	1
21	5290	16	16.4	481	1
22	5290	15	19.1	209	1
23	5290	16	12.5	263	1
24	5290	12	14.5	222	1
25	5290	13	12.3	263	1
26	5290	16	16.9	379	1
27	5290	14	16.8	283	1
28	5290	12	12.3	499	1
29	5290	15	12.5	483	1
30	5290	13	14.2	495	1
Detection Percentage: 96.7 % (>60%)					

Radar Type 5 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5290 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	81.3	7			527.35	1
2	11	72.8	7	1463	1077	410.581	
3	11	82.6	7	1109		197.462	
4	11	57.3	7	1906		25.713	
5	11	84.7	7	1201		670.664	
6	11	69.6	7	1612		825.335	
7	11	76.3	7			15.315	
8	11	82.7	7	1481	923	1044.716	
9	11	92.8	7	1335		361.917	
10	11	87.7	7	1760		382.918	
11	11	52.6	7			667.909	

Statistics 2 (ChirpCenter Frequency: 5290 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	59.6	6	1729		30.275	1
2	14	62	6	1754	1213	681.867	
3	14	90	6	1449		611.244	
4	14	97.4	6	1798		368.281	
5	14	62.2	6	1175	1488	194.439	
6	14	78.6	6	974		488.066	
7	14	53	6	1677		795.833	
8	14	86.3	6			16.9	
9	14	74	6			834.897	
10	14	86.7	6			305.684	
11	14	54.7	6	1369		595.481	
12	14	50.4	6	1559		374.529	
13	14	71.2	6	1572	1866	599.686	
14	14	93.8	6			814.343	

Statistics 3 (ChirpCenter Frequency: 5290 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	73.6	6	1620		256.855	1
2	14	55.5	6	1059	1925	696.607	
3	14	95.3	6	917		655.734	
4	14	93.5	6	1671	1021	745.251	
5	14	81	6			393.429	
6	14	82.5	6	1410	1147	480.526	
7	14	88.9	6			309.953	
8	14	63.1	6	1203		399.98	
9	14	80.3	6	1431		20.887	
10	14	51.2	6	1472	1417	33.534	
11	14	85.1	6			411.591	
12	14	67.1	6	1263		437.539	
13	14	88.5	6	1365	1381	517.086	
14	14	65.4	6			293.943	

Statistics 4 (ChirpCenter Frequency: 5290 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	70.4	5	1883	1336	606.971	1
2	19	67	5	1140		350.193	
3	19	72.2	5	1631		380.002	
4	19	88.2	5	1700		101.333	
5	19	81	5	1259		82.124	
6	19	79.8	5	1482	1645	95.215	
7	19	83.1	5	1111		256.166	
8	19	88.2	5	1582		134.167	
9	19	76.5	5	1743		466.728	
10	19	99.8	5	1517		575.759	
11	19	81.9	5	1227		385.341	
12	19	68.3	5			264.502	
13	19	68.5	5			344.443	
14	19	55.7	5	1659	1130	463.364	
15	19	83.1	5	1461		424.825	
16	19	72.1	5	1728	1346	278.916	
17	19	93	5	1529	998	357.437	
18	19	74.8	5	1630		233.158	
19	19	90.5	5	1402		201.979	

Statistics 5(ChirpCenter Frequency: 5290 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	90.3	5	1413	1693	579.697	1
2	13	95.5	5	1590	1902	903.023	
3	13	91	5	911		226.566	
4	13	70.1	5	1221		502.159	
5	13	52.2	5	1314		19.102	
6	13	69.8	5	1298		580.225	
7	13	91.4	5			512.258	
8	13	59.1	5			463.512	
9	13	91.7	5	1821		229.285	
10	13	90.4	5			64.668	
11	13	63.8	5	1576		248.421	
12	13	88.2	5	1439		850.754	
13	13	82.6	5	1523	1220	607.777	

Statistics 6 (ChirpCenter Frequency: 52 90MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	62.5	5	1768		91.276	1
2	17	57.9	5	1883		586.568	
3	17	78	5	1522		646.585	
4	17	97.6	5	1834		649.903	
5	17	90	5	1240	1767	674.221	
6	17	96.2	5	1355		328.568	
7	17	57.3	5	1189		469.816	
8	17	77.2	5	1456		524.814	
9	17	69.3	5	1340	930	689.371	
10	17	58.3	5	1239	1914	85.149	
11	17	94.6	5			526.186	
12	17	55.6	5			648.374	
13	17	70.7	5	1925	1147	653.982	
14	17	54.4	5	1175	1186	87.519	
15	17	56.6	5	1688	1323	321.747	
16	17	86.2	5	1837		269.265	
17	17	80.9	5	1544	931	295.782	

Statistics 7(ChirpCenter Frequency: 5290MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	65.7	5	1707	1246	643.615	1
2	12	76.8	5	1617	1418	609.72	
3	12	64.8	5	968	1438	3.46	
4	12	91.2	5			353.68	
5	12	85.2	5	1558		142.1	
6	12	70.5	5	1544	1167	516.34	
7	12	51.1	5			458.27	
8	12	96	5	1727		730.37	
9	12	83.2	5	1028	1492	699.95	
10	12	50.9	5			712.04	
11	12	68.8	5	1294		243.6	
12	12	92.4	5	1532		474.3	

Statistics 8 (ChirpCenter Frequency: 5290 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.5	6	1402	1262	660.483	1
2	15	52	6	1212		309.68	
3	15	61.1	6	1227		43.31	
4	15	88.8	6			770.69	
5	15	70.4	6			430.91	
6	15	60.9	6			727.54	
7	15	89	6	1719	1608	99	
8	15	50.5	6	1458	1547	180.85	
9	15	93	6	1608	1027	316.24	
10	15	53.9	6	1117		684.43	
11	15	69.9	6	1593	1917	134.61	
12	15	94.1	6	1296	1157	68.42	
13	15	51.4	6	1808		776.7	
14	15	88.8	6	1530		105.6	
15	15	56.2	6	1298		407	

Statistics 9 (ChirpCenter Frequency: 5290 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	55.1	6	1932		447.874	1
2	17	76.8	6	1820	1599	128.997	
3	17	80.4	6	1538		455.845	
4	17	64.5	6	1691	1250	318.453	
5	17	64.7	6	998	1144	601.861	
6	17	79	6	1063		621.738	
7	17	60	6			529.346	
8	17	83.7	6	1528		681.324	
9	17	92.4	6			452.121	
10	17	73.5	6	1185	1509	590.469	
11	17	92.6	6			420.516	
12	17	69.5	6	1298		21.834	
13	17	80.2	6	1334	1576	315.922	
14	17	51.7	6	1168		275.269	
15	17	62.4	6	1910	1194	56.517	
16	17	88.6	6	1903		29.465	
17	17	74.1	6	1662		370.182	

Statistics 10 (ChirpCenter Frequency: 5290 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	99.6	5	1178	1748	236.527	0
2	15	64.4	5	988	1046	596.61	
3	15	54.2	5	1195		780.78	
4	15	83.1	5			483.01	
5	15	89.2	5			11.72	
6	15	80.3	5	1565		266.47	
7	15	63	5	1791		51	
8	15	71.3	5			270.13	
9	15	76.2	5	1323		233.09	
10	15	94.3	5	1160	1621	296.79	
11	15	87.7	5	1626	1864	400.54	
12	15	88.1	5			317.2	
13	15	56.9	5	1078		543.8	
14	15	53.6	5			90.4	
15	15	65.4	5	1803		762.5	

Statistics 11 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	51.7	5	1861	1272	161.026	1
2	20	60.1	5	1494	1053	259.958	
3	20	71.8	5	1209	1810	486.18	
4	20	60.7	5	1762	1522	513.68	
5	20	87.2	5	916	926	99.99	
6	20	85.2	5	951		565.23	
7	20	97.8	5	1402		209.79	
8	20	60.4	5			188.07	
9	20	93.5	5	1484		307.82	
10	20	89.4	5			226.68	
11	20	72	5	1073	1044	405.28	
12	20	50.6	5	981		212.33	
13	20	59.6	5	1542		252.04	
14	20	81.8	5	1151		87.94	
15	20	79.1	5			254.21	
16	20	83.8	5	1565	1240	86.77	
17	20	55.3	5	1470		587.4	
18	20	92.9	5			265.3	
19	20	52.6	5	1450		64.7	
20	20	79.8	5	1240	1349	24.7	

Statistics 12 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	80.9	5	1657		562.762	1
2	20	59.1	5	1489		487.36	
3	20	80.5	5	1208	1121	197.51	
4	20	92.5	5	1518	1620	580.4	
5	20	61.7	5	1018		159.72	
6	20	78.4	5	1100	1656	234.55	
7	20	88.5	5	1092		129.34	
8	20	77.9	5	1797		172.22	
9	20	79.3	5	1042		474.53	
10	20	96.3	5			58.61	
11	20	74.8	5	1618	1155	37.18	
12	20	58.7	5			560.52	
13	20	59.6	5	1484		542.48	
14	20	60.2	5	1617		276.43	
15	20	50.5	5			388.61	
16	20	88.9	5			108.44	
17	20	87.7	5	1715		95.06	
18	20	68	5			52.5	
19	20	52.3	5			367	
20	20	57.8	5	1714		483.2	

Statistics 13 (ChirpCenter Frequency: 5254.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	83.9	7			306.702	1
2	18	82.6	7			130.713	
3	18	84	7	1576		269.837	
4	18	64.4	7	1409	1382	245.7	
5	18	61.8	7			72.973	
6	18	65.2	7	1911	1175	235.297	
7	18	90.8	7	1509		158.85	
8	18	82.1	7	1643	1764	601.853	
9	18	83.1	7			75.617	
10	18	81.6	7			168.4	
11	18	68.1	7	1351		466.183	
12	18	79.5	7			347.027	
13	18	84.3	7	1039		612.24	
14	18	88.8	7			166.273	
15	18	73.8	7	1760	1756	659.807	
16	18	86.2	7	1903		592.3	
17	18	79.3	7			533.033	
18	18	57.6	7	1905		444.767	

Statistics 14 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	69.8	5	1469		507.244	1
2	15	96.7	5	1713		145.971	
3	15	54.8	5	1583	1924	343.02	
4	15	59.2	5	947	1847	226.34	
5	15	76.3	5	1119	1584	365.73	
6	15	96.2	5	1292	1298	656.28	
7	15	99.5	5	1052	1650	667.67	
8	15	82.5	5	1625	1555	136.26	
9	15	85.9	5			786.75	
10	15	78.7	5	1616		536.22	
11	15	73.3	5			456.62	
12	15	73.2	5	1851		22.87	
13	15	86.9	5	920		570.1	
14	15	70.3	5	1843		338	
15	15	55.3	5	1826		401.6	

Statistics 15 (ChirpCenter Frequency: 5254MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	74.6	5	1375		355.44	1
2	19	91.7	5	1603		229.659	
3	19	69.5	5	1767	1426	615.242	
4	19	74.7	5	1757		286.993	
5	19	55.4	5	1197		177.854	
6	19	67.1	5			235.825	
7	19	68.9	5	1473	1181	518.836	
8	19	53.7	5			95.017	
9	19	82.4	5	1470	1704	384.978	
10	19	96.4	5	1594	981	132.059	
11	19	93.7	5	1260	1250	223.621	
12	19	82.4	5	927		77.282	
13	19	73.8	5	1164	1791	111.973	
14	19	98	5	1680		565.424	
15	19	52.2	5	1700		177.235	
16	19	60.8	5	1397		243.286	
17	19	61.6	5	1768		532.737	
18	19	96.8	5	1345		144.258	
19	19	64	5	984	959	40.379	

Statistics 16 (ChirpCenter Frequency: 5254.4 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	97.3	6	1334		256.425	1
2	13	73.1	6	1805		499.423	
3	13	70.1	6			297.286	
4	13	78.9	6			57.059	
5	13	62	6	1752	1599	186.182	
6	13	98.5	6	1144	1431	589.225	
7	13	84	6	1445	1454	800.838	
8	13	63.5	6	1536	1115	302.432	
9	13	71.3	6	1637		913.975	
10	13	90.5	6	1361		132.078	
11	13	73	6	1194	1613	519.651	
12	13	83.9	6	1277		56.654	
13	13	71.3	6	1596		778.577	

Statistics 17 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	61	5			297.054	1
2	18	83.7	5	1893		441.633	
3	18	60.4	5	1433		447.077	
4	18	88.9	5	1571		191.02	
5	18	51.8	5	1092		70.923	
6	18	83.5	5			473.297	
7	18	60.9	5	1390		94.95	
8	18	57.3	5	1243		88.843	
9	18	93.3	5	1523		219.407	
10	18	83.5	5	1629	1022	112.55	
11	18	85.9	5			583.103	
12	18	53.9	5	1488		536.507	
13	18	93.9	5			177.87	
14	18	70.5	5			433.163	
15	18	72.3	5	1334		374.307	
16	18	91.7	5			478.5	
17	18	88.6	5	1076	1883	633.333	
18	18	68.1	5	1168	1240	434.967	

Statistics 18 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	10	56.5	5	1485		59.854	0
2	10	53.6	5	1089	1066	214.29	
3	10	77.7	5	932		432.98	
4	10	89.5	5	1298		1096.8	
5	10	83.4	5			573.89	
6	10	62.6	5	1499		231.44	
7	10	72.9	5	1002		576.3	
8	10	62.7	5	1494		2.18	
9	10	51.8	5	1326		565.6	
10	10	59.9	5	1390	1492	673.6	

Statistics 19 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	54.4	5			459.028	1
2	19	94.1	5			108.929	
3	19	75.7	5	1648		426.402	
4	19	68.4	5	1024	1824	576.153	
5	19	83	5	1113	1521	503.334	
6	19	60.2	5	1918	1074	592.855	
7	19	54.9	5	1705		30.716	
8	19	85.4	5	1336		57.297	
9	19	99.3	5			253.958	
10	19	97.3	5	1293	1629	353.369	
11	19	82.5	5	1367		520.181	
12	19	55.7	5	1496		260.852	
13	19	65.5	5	1620	1188	64.143	
14	19	61.9	5	1730		198.284	
15	19	92.7	5	1776	1859	305.215	
16	19	78.9	5	1166	1029	353.016	
17	19	86.4	5	1007	1497	411.637	
18	19	80.8	5	1537		386.758	
19	19	86.9	5	1090		512.579	

Statistics 20 (ChirpCenter Frequency: 5254 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	84.4	5	1730		177.565	1
2	11	75.3	5	1354		140.831	
3	11	94.7	5	1024		241.902	
4	11	51.9	5			199.483	
5	11	80.6	5	974		536.604	
6	11	60.8	5			66.335	
7	11	75	5			810.375	
8	11	74.4	5	1422	1633	944.706	
9	11	92.9	5	1708		1026.727	
10	11	66.9	5	944	1893	476.418	
11	11	79.9	5	1125		578.209	

Statistics 21 (ChirpCenter Frequency: 5325.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	97.3	6			458.123	1
2	18	61.1	6	1217		17.92	
3	18	80.6	6	1774		390.567	
4	18	64.7	6	1321	1827	402.03	
5	18	94.4	6	1688		102.873	
6	18	91.2	6	1247		20.697	
7	18	68.9	6	1102		524.29	
8	18	74.6	6	1609		84.373	
9	18	74.7	6	1227	1531	206.127	
10	18	82.6	6	1525		285.98	
11	18	81.3	6	1314		105.063	
12	18	66.6	6	1577		118.627	
13	18	86.5	6	1167	1406	422.32	
14	18	62.8	6	1919		4.333	
15	18	82.2	6	1127		150.757	
16	18	79.4	6	1452		385.7	
17	18	91.7	6			160.033	
18	18	92.5	6	1497	1571	418.467	

Statistics 22 (ChirpCenter Frequency: 5325.2)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	73.2	7	1332	1061	119.741	0
2	12	78.4	7	1401		592.27	
3	12	93.8	7			907.17	
4	12	80.5	7			294.54	
5	12	82.4	7	1415		277.74	
6	12	90.7	7	1899	1644	716.23	
7	12	56.9	7			304.14	
8	12	73.6	7	1191		372.72	
9	12	62.4	7			518.42	
10	12	98.7	7	1175	1306	453.67	
11	12	77.4	7	1266	1636	913.3	
12	12	82.7	7	1703		180.9	

Statistics 23 (ChirpCenter Frequency: 5325.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	66.6	6	1520	1572	25.653	1
2	15	78.3	6	1852		697.36	
3	15	75.2	6	1365	1829	123.48	
4	15	69	6	1302		262.33	
5	15	69.1	6			307.33	
6	15	83.7	6	1750	1075	661.38	
7	15	59.5	6	998		80.48	
8	15	88	6			700.09	
9	15	93.3	6			599.81	
10	15	51.6	6	1814	1223	239.02	
11	15	87.6	6	1745	1646	273.36	
12	15	50.2	6	1043		631.01	
13	15	76.5	6			622.9	
14	15	95.3	6	1815	1679	192.7	
15	15	53.3	6	1621		214.9	

Statistics 24 (ChirpCenter Frequency: 5326 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	90.9	5	1357	1274	242.421	1
2	19	55.5	5			478.681	
3	19	56	5			287.442	
4	19	66.3	5			117.423	
5	19	76.5	5			509.794	
6	19	68.1	5	1134	1478	496.275	
7	19	67.3	5	1484		345.666	
8	19	80	5			416.117	
9	19	77.1	5	1402		475.138	
10	19	71	5			49.539	
11	19	73	5	1402	1659	118.371	
12	19	53	5			296.112	
13	19	53.3	5	1158	1319	244.913	
14	19	82.3	5	1269	1598	279.014	
15	19	80.1	5	1803		125.335	
16	19	97.6	5	1496	1099	369.756	
17	19	80.2	5	1030	1036	393.837	
18	19	91.6	5	1290		53.358	
19	19	59.4	5	1453	1496	553.879	

Statistics 25 (ChirpCenter Frequency: 5326 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	62.3	5			513.765	1
2	16	66.7	5	1005	1547	395.91	
3	16	93.7	5	1904		46.75	
4	16	66.1	5	1828		587.25	
5	16	81.7	5	1178		259.23	
6	16	96.5	5			636.66	
7	16	68	5	1368		295.39	
8	16	72	5			662.29	
9	16	89.7	5			347.87	
10	16	53.7	5			118.81	
11	16	57.2	5	1477	1625	640.78	
12	16	75.1	5	1712		637.89	
13	16	72.3	5	969		656.01	
14	16	61.7	5	1454	1731	133.31	
15	16	78.8	5	1501		349.9	
16	16	62.6	5	1104		222.8	

Statistics 26 (ChirpCenter Frequency: 5326 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	53.5	6	1864		361.909	1
2	18	90.3	6	1884	1635	94.562	
3	18	90.8	6	1799	1234	477.417	
4	18	67.2	6	1420	1883	179.35	
5	18	68.6	6			129.343	
6	18	57.8	6	1446		21.577	
7	18	61.9	6	1812		591.39	
8	18	53.5	6	1602		363.313	
9	18	71.1	6	1850	1730	172.547	
10	18	86.7	6	1255	1714	97.23	
11	18	87.4	6	1813		129.583	
12	18	65.9	6	1486		313.197	
13	18	94.8	6	1327		46.11	
14	18	74.4	6	1728		601.613	
15	18	76.3	6	1427		68.447	
16	18	75.7	6	1545	1384	31.1	
17	18	68.3	6	1187		261.133	
18	18	88.4	6	1165		543.867	

Statistics 27 (ChirpCenter Frequency: 5326 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	94.8	5			71.018	0
2	15	92.4	5			374.62	
3	15	82.4	5	1310	923	172.44	
4	15	59.9	5	1729		756.92	
5	15	69.7	5			188.28	
6	15	51.8	5	1908	1336	581.96	
7	15	82.2	5	1531	1219	63.38	
8	15	92.4	5	1182		315.55	
9	15	67.3	5	1671		412.58	
10	15	65.9	5	1497		528.25	
11	15	86.9	5	1823		394.38	
12	15	77.7	5			646.53	
13	15	89.2	5	1149	1882	438	
14	15	81.3	5	1454		363.4	
15	15	61.8	5	1119		628.1	

Statistics 28 (ChirpCenter Frequency: 5325.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.3	6	1357		116.045	1
2	15	53.3	6			290.82	
3	15	78.5	6	1635	962	427.99	
4	15	62.9	6			119.42	
5	15	85.8	6	1479	1621	624.72	
6	15	82.9	6	1627		787.89	
7	15	89.3	6	1490	1434	48.6	
8	15	53.3	6	1740		511.01	
9	15	94.4	6	1481		267.44	
10	15	62.4	6	1512		591.08	
11	15	52.5	6			653.11	
12	15	51.8	6	1089		396.64	
13	15	96.3	6	1899		468.1	
14	15	71.4	6	1329		67.8	
15	15	53.4	6	1669	1386	640.3	

Statistics 29 (ChirpCenter Frequency: 5326 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	93.9	5	1327		10.057	1
2	18	94.4	5	1035		578.453	
3	18	66.4	5	1689		239.867	
4	18	60.1	5	1377		470.83	
5	18	89	5			205.903	
6	18	71.7	5	1336	1020	632.377	
7	18	75.5	5			326.87	
8	18	51.8	5	1314		568.403	
9	18	57.9	5			445.687	
10	18	61.2	5	1511		362.23	
11	18	61.9	5	1394		347.893	
12	18	88	5	1435		581.917	
13	18	99.6	5	1427	1455	384.42	
14	18	52.4	5	1617	1148	276.123	
15	18	83.2	5			553.187	
16	18	74.7	5	1168	1245	336.6	
17	18	53.6	5	952		53.933	
18	18	93.4	5	1116		184.867	

Statistics 30 (ChirpCenter Frequency: 5324.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	52.5	8	1096	1130	457.955	1
2	16	65.2	8			573.43	
3	16	51.5	8	1801		366.79	
4	16	84.5	8	1762	1172	689.78	
5	16	90.6	8	1109		565.93	
6	16	92.9	8	1279		391.78	
7	16	66.5	8	936		592.18	
8	16	87.1	8	1487		449.89	
9	16	76.3	8	1743	1874	163.98	
10	16	62.3	8	1168		607	
11	16	54.9	8			92.58	
12	16	83.5	8	1697		425.37	
13	16	92	8	1579		420.9	
14	16	82.9	8	1182		551.9	
15	16	72.9	8	1288	1018	689	
16	16	62.1	8			100	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5290	9	1	333	1	5393.0, 5665.0, 5475.0, 5560.0, 5358.0, 5326.0, 5546.0, 5719.0, 5483.0, 5283.0, 5383.0, 5324.0, 5455.0, 5414.0, 5508.0, 5367.0, 5371.0, 5584.0, 5375.0, 5440.0, 5486.0, 5541.0, 5436.0, 5504.0, 5297.0, 5252.0, 5543.0, 5523.0, 5714.0, 5559.0, 5577.0, 5496.0, 5257.0, 5356.0, 5620.0, 5670.0, 5688.0, 5680.0, 5264.0, 5294.0, 5386.0, 5432.0, 5667.0, 5388.0, 5652.0, 5704.0, 5426.0, 5421.0, 5428.0, 5718.0, 5462.0, 5307.0, 5716.0, 5596.0, 5623.0, 5610.0, 5565.0, 5296.0, 5260.0, 5595.0, 5699.0, 5710.0, 5679.0, 5534.0, 5615.0, 5497.0, 5321.0, 5707.0, 5317.0, 5274.0, 5374.0, 5724.0, 5370.0, 5379.0, 5632.0, 5649.0, 5675.0, 5580.0, 5713.0, 5482.0, 5364.0, 5702.0, 5687.0, 5265.0, 5691.0, 5415.0, 5472.0, 5549.0, 5399.0, 5396.0, 5318.0, 5502.0, 5256.0, 5382.0, 5329.0, 5310.0, 5668.0, 5331.0, 5477.0, 5373.0 (number of hits: 19)
2	5290	9	1	333	1	5513.0, 5394.0, 5621.0, 5637.0, 5407.0, 5719.0, 5403.0, 5348.0, 5687.0, 5574.0, 5389.0, 5650.0, 5607.0, 5631.0, 5692.0, 5521.0, 5700.0, 5373.0, 5489.0, 5284.0, 5461.0, 5296.0, 5481.0, 5707.0, 5552.0, 5386.0, 5310.0, 5396.0, 5681.0, 5274.0, 5501.0, 5364.0, 5414.0, 5459.0, 5504.0, 5708.0, 5541.0, 5355.0, 5381.0, 5648.0, 5270.0, 5307.0, 5533.0, 5525.0, 5322.0, 5411.0, 5613.0, 5718.0, 5524.0, 5580.0, 5657.0, 5434.0, 5321.0, 5529.0, 5384.0, 5326.0, 5709.0, 5662.0, 5567.0, 5280.0, 5559.0, 5573.0, 5258.0, 5273.0, 5693.0, 5691.0, 5642.0, 5587.0, 5599.0, 5269.0, 5367.0, 5451.0, 5401.0, 5417.0, 5255.0, 5545.0, 5334.0, 5405.0, 5490.0, 5535.0, 5695.0, 5723.0, 5676.0, 5487.0, 5602.0, 5482.0, 5542.0, 5336.0, 5471.0, 5306.0, 5639.0, 5638.0, 5554.0, 5685.0, 5288.0, 5388.0, 5431.0, 5342.0, 5365.0, 5578.0 (number of hits: 16)

3	5290	9	1	333	1	5329.0, 5278.0, 5319.0, 5283.0, 5275.0, 5307.0, 5587.0, 5485.0, 5267.0, 5405.0, 5449.0, 5586.0, 5352.0, 5696.0, 5317.0, 5581.0, 5445.0, 5403.0, 5330.0, 5721.0, 5562.0, 5321.0, 5304.0, 5402.0, 5608.0, 5391.0, 5623.0, 5700.0, 5469.0, 5313.0, 5527.0, 5409.0, 5430.0, 5646.0, 5678.0, 5451.0, 5302.0, 5606.0, 5677.0, 5348.0, 5414.0, 5658.0, 5686.0, 5363.0, 5632.0, 5263.0, 5514.0, 5477.0, 5438.0, 5595.0, 5530.0, 5652.0, 5697.0, 5344.0, 5423.0, 5573.0, 5547.0, 5444.0, 5576.0, 5508.0, 5661.0, 5434.0, 5559.0, 5499.0, 5695.0, 5594.0, 5513.0, 5486.0, 5439.0, 5250.0, 5270.0, 5266.0, 5662.0, 5338.0, 5389.0, 5650.0, 5364.0, 5553.0, 5311.0, 5692.0, 5604.0, 5265.0, 5694.0, 5339.0, 5625.0, 5316.0, 5504.0, 5535.0, 5493.0, 5713.0, 5388.0, 5689.0, 5377.0, 5723.0, 5561.0, 5261.0, 5470.0, 5709.0, 5509.0, 5334.0 (number of hits: 20)
4	5290	9	1	333	1	5297.0, 5656.0, 5264.0, 5713.0, 5393.0, 5681.0, 5503.0, 5376.0, 5319.0, 5653.0, 5611.0, 5458.0, 5478.0, 5695.0, 5721.0, 5285.0, 5454.0, 5629.0, 5604.0, 5289.0, 5542.0, 5309.0, 5704.0, 5346.0, 5322.0, 5378.0, 5714.0, 5709.0, 5310.0, 5663.0, 5678.0, 5668.0, 5318.0, 5398.0, 5532.0, 5622.0, 5564.0, 5621.0, 5330.0, 5551.0, 5524.0, 5671.0, 5509.0, 5498.0, 5382.0, 5543.0, 5556.0, 5577.0, 5359.0, 5531.0, 5667.0, 5624.0, 5288.0, 5597.0, 5616.0, 5649.0, 5512.0, 5660.0, 5529.0, 5424.0, 5292.0, 5530.0, 5575.0, 5675.0, 5612.0, 5275.0, 5356.0, 5448.0, 5486.0, 5655.0, 5286.0, 5609.0, 5560.0, 5691.0, 5590.0, 5684.0, 5591.0, 5719.0, 5447.0, 5358.0, 5465.0, 5384.0, 5545.0, 5380.0, 5689.0, 5479.0, 5457.0, 5687.0, 5517.0, 5449.0, 5692.0, 5470.0, 5665.0, 5333.0, 5272.0, 5274.0, 5295.0, 5572.0, 5499.0, 5311.0 (number of hits: 17)
5	5290	9	1	333	1	5368.0, 5274.0, 5567.0, 5348.0, 5700.0, 5662.0, 5319.0, 5527.0, 5558.0, 5611.0, 5460.0, 5387.0, 5434.0, 5253.0, 5278.0, 5334.0, 5485.0, 5562.0, 5349.0, 5369.0, 5332.0, 5296.0, 5715.0, 5377.0, 5672.0, 5444.0, 5431.0, 5398.0, 5658.0, 5322.0, 5417.0, 5542.0, 5259.0, 5572.0, 5724.0, 5575.0, 5295.0, 5393.0, 5690.0, 5414.0, 5663.0, 5329.0, 5668.0, 5373.0, 5576.0, 5469.0, 5287.0, 5616.0, 5678.0, 5644.0, 5446.0, 5655.0, 5478.0, 5697.0, 5496.0, 5303.0, 5405.0, 5534.0, 5344.0, 5465.0, 5720.0, 5543.0, 5493.0, 5554.0, 5265.0,

						5617.0, 5390.0, 5536.0, 5282.0, 5342.0, 5375.0, 5599.0, 5326.0, 5448.0, 5619.0, 5409.0, 5328.0, 5569.0, 5646.0, 5260.0, 5593.0, 5261.0, 5615.0, 5511.0, 5335.0, 5321.0, 5673.0, 5477.0, 5564.0, 5356.0, 5675.0, 5388.0, 5507.0, 5487.0, 5384.0, 5479.0, 5565.0, 5447.0, 5289.0, 5464.0 (number of hits: 19)
6	5290	9	1	333	1	5467.0, 5504.0, 5670.0, 5495.0, 5377.0, 5724.0, 5275.0, 5341.0, 5273.0, 5687.0, 5382.0, 5648.0, 5300.0, 5508.0, 5419.0, 5579.0, 5489.0, 5406.0, 5465.0, 5598.0, 5286.0, 5251.0, 5721.0, 5466.0, 5314.0, 5440.0, 5630.0, 5523.0, 5684.0, 5716.0, 5431.0, 5347.0, 5693.0, 5380.0, 5252.0, 5610.0, 5605.0, 5283.0, 5470.0, 5525.0, 5379.0, 5498.0, 5363.0, 5499.0, 5325.0, 5691.0, 5702.0, 5270.0, 5320.0, 5371.0, 5318.0, 5692.0, 5683.0, 5589.0, 5650.0, 5688.0, 5370.0, 5560.0, 5565.0, 5291.0, 5521.0, 5321.0, 5626.0, 5675.0, 5439.0, 5405.0, 5333.0, 5519.0, 5535.0, 5512.0, 5481.0, 5600.0, 5577.0, 5530.0, 5462.0, 5265.0, 5339.0, 5475.0, 5295.0, 5696.0, 5292.0, 5594.0, 5322.0, 5354.0, 5296.0, 5471.0, 5636.0, 5614.0, 5572.0, 5409.0, 5666.0, 5319.0, 5408.0, 5497.0, 5388.0, 5421.0, 5268.0, 5634.0, 5492.0, 5448.0 (number of hits: 21)
7	5290	9	1	333	1	5665.0, 5305.0, 5367.0, 5348.0, 5581.0, 5525.0, 5406.0, 5712.0, 5363.0, 5507.0, 5264.0, 5575.0, 5268.0, 5342.0, 5309.0, 5681.0, 5394.0, 5306.0, 5514.0, 5580.0, 5576.0, 5706.0, 5276.0, 5675.0, 5601.0, 5419.0, 5267.0, 5668.0, 5663.0, 5344.0, 5331.0, 5398.0, 5690.0, 5324.0, 5417.0, 5643.0, 5515.0, 5591.0, 5265.0, 5558.0, 5354.0, 5316.0, 5484.0, 5640.0, 5683.0, 5560.0, 5543.0, 5555.0, 5297.0, 5611.0, 5603.0, 5722.0, 5631.0, 5343.0, 5441.0, 5420.0, 5517.0, 5506.0, 5374.0, 5479.0, 5333.0, 5592.0, 5445.0, 5691.0, 5341.0, 5538.0, 5351.0, 5391.0, 5456.0, 5314.0, 5718.0, 5382.0, 5717.0, 5326.0, 5251.0, 5361.0, 5540.0, 5713.0, 5653.0, 5290.0, 5505.0, 5424.0, 5320.0, 5370.0, 5491.0, 5503.0, 5375.0, 5373.0, 5553.0, 5685.0, 5615.0, 5413.0, 5632.0, 5308.0, 5646.0, 5414.0, 5521.0, 5295.0, 5444.0, 5310.0 (number of hits: 19)
8	5290	9	1	333	1	5715.0, 5619.0, 5424.0, 5403.0, 5344.0, 5540.0, 5395.0, 5570.0, 5462.0, 5350.0, 5632.0, 5722.0, 5252.0, 5576.0, 5626.0, 5397.0, 5712.0, 5597.0, 5347.0, 5488.0, 5268.0, 5340.0, 5539.0, 5635.0, 5407.0, 5472.0, 5281.0, 5312.0, 5547.0, 5534.0, 5645.0, 5600.0, 5613.0, 5476.0, 5668.0, 5466.0, 5596.0, 5567.0, 5427.0, 5490.0, 5366.0, 5714.0, 5482.0, 5656.0, 5415.0, 5465.0, 5337.0, 5410.0, 5458.0, 5329.0,

						5370.0, 5309.0, 5283.0, 5264.0, 5402.0, 5719.0, 5293.0, 5394.0, 5528.0, 5718.0, 5563.0, 5546.0, 5584.0, 5538.0, 5296.0, 5288.0, 5589.0, 5276.0, 5614.0, 5625.0, 5628.0, 5442.0, 5392.0, 5285.0, 5357.0, 5541.0, 5266.0, 5564.0, 5310.0, 5683.0, 5297.0, 5328.0, 5586.0, 5562.0, 5522.0, 5338.0, 5313.0, 5287.0, 5571.0, 5577.0, 5251.0, 5618.0, 5682.0, 5302.0, 5660.0, 5291.0, 5257.0, 5487.0, 5406.0, 5380.0 (number of hits: 23)
9	5290	9	1	333	1	5718.0, 5685.0, 5721.0, 5414.0, 5291.0, 5471.0, 5332.0, 5611.0, 5331.0, 5515.0, 5357.0, 5333.0, 5713.0, 5614.0, 5609.0, 5696.0, 5576.0, 5343.0, 5460.0, 5563.0, 5716.0, 5508.0, 5446.0, 5507.0, 5477.0, 5360.0, 5407.0, 5426.0, 5301.0, 5267.0, 5597.0, 5389.0, 5505.0, 5306.0, 5377.0, 5518.0, 5610.0, 5592.0, 5499.0, 5658.0, 5633.0, 5259.0, 5536.0, 5636.0, 5289.0, 5310.0, 5579.0, 5300.0, 5463.0, 5606.0, 5549.0, 5441.0, 5624.0, 5564.0, 5315.0, 5585.0, 5691.0, 5724.0, 5690.0, 5276.0, 5656.0, 5458.0, 5620.0, 5257.0, 5692.0, 5374.0, 5547.0, 5445.0, 5409.0, 5351.0, 5448.0, 5537.0, 5334.0, 5438.0, 5510.0, 5461.0, 5709.0, 5498.0, 5421.0, 5336.0, 5528.0, 5679.0, 5436.0, 5552.0, 5623.0, 5603.0, 5264.0, 5557.0, 5475.0, 5378.0, 5517.0, 5481.0, 5387.0, 5365.0, 5425.0, 5580.0, 5277.0, 5404.0, 5593.0, 5392.0 (number of hits: 13)
10	5290	9	1	333	1	5504.0, 5701.0, 5450.0, 5550.0, 5639.0, 5350.0, 5606.0, 5374.0, 5289.0, 5363.0, 5573.0, 5537.0, 5654.0, 5394.0, 5549.0, 5311.0, 5279.0, 5554.0, 5301.0, 5273.0, 5421.0, 5521.0, 5474.0, 5559.0, 5612.0, 5622.0, 5672.0, 5706.0, 5500.0, 5299.0, 5425.0, 5615.0, 5540.0, 5518.0, 5664.0, 5264.0, 5448.0, 5621.0, 5408.0, 5614.0, 5370.0, 5649.0, 5709.0, 5520.0, 5277.0, 5267.0, 5565.0, 5385.0, 5431.0, 5389.0, 5331.0, 5584.0, 5507.0, 5453.0, 5428.0, 5717.0, 5433.0, 5320.0, 5268.0, 5325.0, 5718.0, 5281.0, 5378.0, 5386.0, 5536.0, 5290.0, 5613.0, 5683.0, 5617.0, 5705.0, 5252.0, 5359.0, 5692.0, 5397.0, 5561.0, 5263.0, 5480.0, 5645.0, 5356.0, 5535.0, 5502.0, 5673.0, 5633.0, 5553.0, 5478.0, 5538.0, 5623.0, 5650.0, 5658.0, 5607.0, 5582.0, 5592.0, 5644.0, 5618.0, 5545.0, 5656.0, 5375.0, 5372.0, 5296.0, 5282.0 (number of hits: 18)
11	5290	9	1	333	1	5724.0, 5686.0, 5492.0, 5613.0, 5478.0, 5263.0, 5356.0, 5527.0, 5434.0, 5502.0, 5522.0, 5607.0, 5371.0, 5372.0, 5439.0, 5536.0, 5680.0, 5343.0, 5550.0, 5366.0, 5703.0, 5260.0, 5534.0, 5615.0, 5266.0, 5654.0, 5520.0, 5548.0, 5261.0, 5302.0, 5652.0, 5498.0, 5637.0, 5319.0, 5344.0,

						5609.0, 5258.0, 5384.0, 5587.0, 5511.0, 5639.0, 5528.0, 5641.0, 5523.0, 5364.0, 5287.0, 5699.0, 5704.0, 5546.0, 5270.0, 5445.0, 5309.0, 5687.0, 5419.0, 5632.0, 5433.0, 5618.0, 5425.0, 5298.0, 5326.0, 5255.0, 5402.0, 5334.0, 5267.0, 5321.0, 5444.0, 5429.0, 5669.0, 5325.0, 5306.0, 5289.0, 5374.0, 5254.0, 5601.0, 5431.0, 5720.0, 5349.0, 5375.0, 5555.0, 5410.0, 5698.0, 5272.0, 5500.0, 5656.0, 5399.0, 5380.0, 5412.0, 5411.0, 5657.0, 5628.0, 5381.0, 5554.0, 5619.0, 5253.0, 5430.0, 5508.0, 5707.0, 5370.0, 5612.0, 5635.0 (number of hits: 21)
12	5290	9	1	333	1	5695.0, 5631.0, 5308.0, 5627.0, 5262.0, 5505.0, 5716.0, 5710.0, 5269.0, 5661.0, 5373.0, 5422.0, 5664.0, 5271.0, 5354.0, 5543.0, 5405.0, 5548.0, 5321.0, 5531.0, 5463.0, 5284.0, 5406.0, 5477.0, 5483.0, 5341.0, 5554.0, 5508.0, 5427.0, 5447.0, 5509.0, 5252.0, 5687.0, 5454.0, 5629.0, 5648.0, 5544.0, 5550.0, 5402.0, 5539.0, 5551.0, 5411.0, 5530.0, 5367.0, 5298.0, 5724.0, 5662.0, 5316.0, 5521.0, 5387.0, 5715.0, 5719.0, 5498.0, 5315.0, 5478.0, 5481.0, 5305.0, 5415.0, 5289.0, 5567.0, 5333.0, 5299.0, 5600.0, 5365.0, 5693.0, 5267.0, 5593.0, 5709.0, 5618.0, 5675.0, 5334.0, 5343.0, 5476.0, 5449.0, 5443.0, 5276.0, 5385.0, 5520.0, 5300.0, 5452.0, 5372.0, 5514.0, 5351.0, 5436.0, 5524.0, 5278.0, 5722.0, 5275.0, 5647.0, 5358.0, 5424.0, 5656.0, 5353.0, 5683.0, 5451.0, 5397.0, 5420.0, 5329.0, 5347.0, 5394.0 (number of hits: 19)
13	5290	9	1	333	1	5577.0, 5575.0, 5522.0, 5252.0, 5422.0, 5554.0, 5322.0, 5496.0, 5279.0, 5296.0, 5588.0, 5611.0, 5472.0, 5695.0, 5563.0, 5281.0, 5330.0, 5431.0, 5667.0, 5326.0, 5308.0, 5266.0, 5403.0, 5535.0, 5276.0, 5576.0, 5416.0, 5530.0, 5691.0, 5603.0, 5473.0, 5721.0, 5489.0, 5703.0, 5656.0, 5648.0, 5328.0, 5688.0, 5313.0, 5283.0, 5407.0, 5491.0, 5264.0, 5250.0, 5618.0, 5717.0, 5689.0, 5556.0, 5594.0, 5701.0, 5286.0, 5664.0, 5694.0, 5511.0, 5290.0, 5311.0, 5385.0, 5544.0, 5373.0, 5599.0, 5541.0, 5354.0, 5627.0, 5722.0, 5401.0, 5555.0, 5359.0, 5387.0, 5516.0, 5719.0, 5593.0, 5434.0, 5675.0, 5523.0, 5521.0, 5668.0, 5698.0, 5428.0, 5559.0, 5587.0, 5263.0, 5638.0, 5357.0, 5641.0, 5707.0, 5361.0, 5319.0, 5547.0, 5482.0, 5451.0, 5632.0, 5683.0, 5421.0, 5288.0, 5684.0, 5454.0, 5592.0, 5468.0, 5497.0, 5363.0 (number of hits: 20)
14	5290	9	1	333	1	5641.0, 5599.0, 5295.0, 5277.0, 5690.0, 5426.0, 5716.0, 5304.0, 5255.0, 5528.0, 5573.0, 5354.0, 5522.0, 5654.0, 5540.0, 5585.0, 5512.0, 5545.0, 5468.0, 5720.0,

						5351.0, 5519.0, 5262.0, 5341.0, 5397.0, 5693.0, 5346.0, 5422.0, 5440.0, 5591.0, 5476.0, 5256.0, 5332.0, 5626.0, 5507.0, 5368.0, 5409.0, 5712.0, 5338.0, 5625.0, 5515.0, 5508.0, 5296.0, 5546.0, 5364.0, 5460.0, 5367.0, 5549.0, 5696.0, 5701.0, 5461.0, 5634.0, 5569.0, 5594.0, 5520.0, 5580.0, 5631.0, 5331.0, 5269.0, 5418.0, 5429.0, 5459.0, 5493.0, 5677.0, 5574.0, 5498.0, 5652.0, 5427.0, 5583.0, 5481.0, 5605.0, 5622.0, 5279.0, 5487.0, 5375.0, 5662.0, 5521.0, 5451.0, 5651.0, 5551.0, 5265.0, 5619.0, 5384.0, 5395.0, 5263.0, 5538.0, 5360.0, 5542.0, 5399.0, 5466.0, 5534.0, 5710.0, 5715.0, 5293.0, 5504.0, 5449.0, 5358.0, 5495.0, 5300.0, 5637.0 (number of hits: 13)
15	5290	9	1	333	1	5712.0, 5586.0, 5469.0, 5483.0, 5436.0, 5576.0, 5397.0, 5688.0, 5506.0, 5307.0, 5637.0, 5562.0, 5264.0, 5433.0, 5356.0, 5338.0, 5528.0, 5330.0, 5691.0, 5628.0, 5531.0, 5350.0, 5510.0, 5361.0, 5667.0, 5689.0, 5450.0, 5406.0, 5671.0, 5539.0, 5253.0, 5711.0, 5379.0, 5440.0, 5523.0, 5583.0, 5601.0, 5292.0, 5692.0, 5555.0, 5474.0, 5560.0, 5324.0, 5574.0, 5257.0, 5452.0, 5644.0, 5569.0, 5701.0, 5288.0, 5463.0, 5575.0, 5572.0, 5391.0, 5273.0, 5530.0, 5622.0, 5423.0, 5444.0, 5703.0, 5388.0, 5359.0, 5650.0, 5251.0, 5366.0, 5279.0, 5502.0, 5297.0, 5694.0, 5363.0, 5676.0, 5368.0, 5661.0, 5566.0, 5617.0, 5488.0, 5480.0, 5535.0, 5439.0, 5362.0, 5513.0, 5664.0, 5595.0, 5705.0, 5722.0, 5475.0, 5296.0, 5500.0, 5304.0, 5371.0, 5283.0, 5708.0, 5719.0, 5686.0, 5407.0, 5666.0, 5384.0, 5558.0, 5367.0, 5275.0 (number of hits: 15)
16	5290	9	1	333	1	5293.0, 5479.0, 5282.0, 5399.0, 5571.0, 5671.0, 5306.0, 5400.0, 5412.0, 5250.0, 5383.0, 5657.0, 5681.0, 5365.0, 5470.0, 5513.0, 5425.0, 5455.0, 5332.0, 5484.0, 5589.0, 5523.0, 5464.0, 5269.0, 5597.0, 5347.0, 5490.0, 5713.0, 5350.0, 5586.0, 5519.0, 5582.0, 5549.0, 5563.0, 5436.0, 5392.0, 5599.0, 5608.0, 5475.0, 5537.0, 5636.0, 5497.0, 5646.0, 5704.0, 5260.0, 5532.0, 5453.0, 5642.0, 5451.0, 5380.0, 5255.0, 5458.0, 5603.0, 5580.0, 5434.0, 5369.0, 5364.0, 5421.0, 5682.0, 5581.0, 5456.0, 5557.0, 5588.0, 5420.0, 5706.0, 5690.0, 5546.0, 5415.0, 5612.0, 5572.0, 5385.0, 5465.0, 5634.0, 5292.0, 5520.0, 5285.0, 5289.0, 5395.0, 5459.0, 5645.0, 5533.0, 5348.0, 5640.0, 5691.0, 5394.0, 5431.0, 5303.0, 5626.0, 5672.0, 5544.0, 5328.0, 5679.0, 5312.0, 5398.0, 5637.0, 5630.0, 5483.0, 5305.0, 5286.0, 5254.0 (number of hits: 16)
17	5290	9	1	333	0	

18	5290	9	1	333	1	5464.0, 5394.0, 5334.0, 5299.0, 5673.0, 5529.0, 5444.0, 5533.0, 5272.0, 5578.0, 5271.0, 5307.0, 5541.0, 5257.0, 5432.0, 5679.0, 5688.0, 5694.0, 5351.0, 5298.0, 5515.0, 5671.0, 5463.0, 5475.0, 5631.0, 5424.0, 5633.0, 5291.0, 5523.0, 5707.0, 5360.0, 5539.0, 5335.0, 5561.0, 5349.0, 5615.0, 5545.0, 5331.0, 5434.0, 5403.0, 5295.0, 5338.0, 5550.0, 5393.0, 5404.0, 5277.0, 5705.0, 5698.0, 5522.0, 5520.0, 5613.0, 5415.0, 5339.0, 5642.0, 5265.0, 5540.0, 5423.0, 5649.0, 5491.0, 5300.0, 5332.0, 5358.0, 5567.0, 5587.0, 5602.0, 5316.0, 5485.0, 5626.0, 5392.0, 5471.0, 5556.0, 5354.0, 5502.0, 5320.0, 5309.0, 5518.0, 5328.0, 5660.0, 5286.0, 5544.0, 5337.0, 5636.0, 5665.0, 5375.0, 5488.0, 5717.0, 5457.0, 5422.0, 5352.0, 5638.0, 5445.0, 5546.0, 5527.0, 5684.0, 5340.0, 5604.0, 5689.0, 5259.0, 5635.0, 5620.0 (number of hits: 17)
19	5290	9	1	333	1	5629.0, 5357.0, 5588.0, 5258.0, 5439.0, 5285.0, 5348.0, 5618.0, 5595.0, 5698.0, 5269.0, 5488.0, 5498.0, 5284.0, 5570.0, 5276.0, 5353.0, 5366.0, 5326.0, 5535.0, 5440.0, 5582.0, 5352.0, 5505.0, 5694.0, 5706.0, 5313.0, 5605.0, 5537.0, 5430.0, 5666.0, 5586.0, 5510.0, 5613.0, 5371.0, 5301.0, 5523.0, 5544.0, 5389.0, 5450.0, 5502.0, 5407.0, 5278.0, 5281.0, 5283.0, 5300.0, 5291.0, 5370.0, 5446.0, 5265.0, 5356.0, 5519.0, 5364.0, 5395.0, 5555.0, 5716.0, 5663.0, 5478.0, 5332.0, 5665.0, 5621.0, 5719.0, 5632.0, 5390.0, 5495.0, 5380.0, 5549.0, 5522.0, 5400.0, 5299.0, 5649.0, 5638.0, 5561.0, 5619.0, 5427.0, 5347.0, 5447.0, 5474.0, 5328.0, 5687.0, 5525.0, 5423.0, 5431.0, 5501.0, 5492.0, 5253.0, 5268.0, 5685.0, 5565.0, 5280.0, 5387.0, 5263.0, 5496.0, 5713.0, 5604.0, 5515.0, 5489.0, 5518.0, 5298.0, 5321.0 (number of hits: 22)
20	5290	9	1	333	1	5558.0, 5373.0, 5465.0, 5372.0, 5477.0, 5315.0, 5328.0, 5510.0, 5513.0, 5406.0, 5295.0, 5398.0, 5509.0, 5300.0, 5554.0, 5331.0, 5260.0, 5433.0, 5420.0, 5468.0, 5710.0, 5384.0, 5319.0, 5719.0, 5336.0, 5542.0, 5507.0, 5501.0, 5266.0, 5702.0, 5385.0, 5312.0, 5255.0, 5462.0, 5600.0, 5401.0, 5633.0, 5680.0, 5548.0, 5409.0, 5271.0, 5358.0, 5320.0, 5679.0, 5413.0, 5470.0, 5622.0, 5415.0, 5431.0, 5655.0, 5508.0, 5390.0, 5604.0, 5450.0, 5609.0, 5522.0, 5675.0, 5408.0, 5269.0, 5644.0, 5416.0, 5572.0, 5374.0, 5388.0, 5671.0, 5539.0, 5303.0, 5640.0, 5459.0, 5281.0, 5685.0, 5469.0, 5309.0, 5457.0, 5380.0, 5596.0, 5614.0, 5543.0, 5417.0, 5711.0, 5500.0, 5521.0, 5338.0, 5593.0, 5278.0, 5460.0, 5526.0, 5391.0, 5393.0, 5672.0,

						5642.0, 5616.0, 5407.0, 5337.0, 5488.0, 5288.0, 5568.0, 5597.0, 5695.0, 5484.0 (number of hits: 17)
21	5290	9	1	333	1	5474.0, 5698.0, 5639.0, 5718.0, 5579.0, 5357.0, 5267.0, 5340.0, 5371.0, 5420.0, 5394.0, 5275.0, 5680.0, 5511.0, 5250.0, 5372.0, 5559.0, 5405.0, 5700.0, 5491.0, 5352.0, 5323.0, 5450.0, 5519.0, 5286.0, 5272.0, 5427.0, 5723.0, 5471.0, 5443.0, 5265.0, 5512.0, 5672.0, 5264.0, 5467.0, 5304.0, 5619.0, 5389.0, 5580.0, 5411.0, 5658.0, 5435.0, 5333.0, 5431.0, 5417.0, 5332.0, 5678.0, 5714.0, 5584.0, 5496.0, 5648.0, 5422.0, 5537.0, 5470.0, 5268.0, 5719.0, 5292.0, 5504.0, 5596.0, 5655.0, 5309.0, 5713.0, 5514.0, 5355.0, 5503.0, 5313.0, 5253.0, 5709.0, 5469.0, 5464.0, 5310.0, 5472.0, 5699.0, 5603.0, 5461.0, 5299.0, 5599.0, 5418.0, 5622.0, 5575.0, 5349.0, 5457.0, 5620.0, 5662.0, 5438.0, 5544.0, 5475.0, 5660.0, 5350.0, 5390.0, 5644.0, 5386.0, 5712.0, 5321.0, 5588.0, 5335.0, 5258.0, 5254.0, 5581.0, 5306.0 (number of hits: 20)
22	5290	9	1	333	1	5436.0, 5608.0, 5296.0, 5426.0, 5428.0, 5337.0, 5341.0, 5456.0, 5445.0, 5669.0, 5663.0, 5692.0, 5563.0, 5327.0, 5276.0, 5585.0, 5429.0, 5605.0, 5503.0, 5320.0, 5713.0, 5694.0, 5314.0, 5538.0, 5615.0, 5462.0, 5606.0, 5297.0, 5304.0, 5639.0, 5652.0, 5520.0, 5702.0, 5291.0, 5580.0, 5610.0, 5566.0, 5388.0, 5593.0, 5542.0, 5476.0, 5474.0, 5510.0, 5661.0, 5323.0, 5340.0, 5598.0, 5432.0, 5351.0, 5475.0, 5491.0, 5442.0, 5696.0, 5410.0, 5724.0, 5374.0, 5346.0, 5455.0, 5574.0, 5676.0, 5431.0, 5259.0, 5504.0, 5708.0, 5689.0, 5315.0, 5267.0, 5480.0, 5529.0, 5418.0, 5582.0, 5517.0, 5354.0, 5413.0, 5633.0, 5627.0, 5682.0, 5363.0, 5409.0, 5332.0, 5643.0, 5343.0, 5420.0, 5698.0, 5497.0, 5277.0, 5662.0, 5472.0, 5395.0, 5642.0, 5319.0, 5358.0, 5415.0, 5703.0, 5525.0, 5611.0, 5720.0, 5685.0, 5306.0, 5635.0 (number of hits: 15)
23	5290	9	1	333	1	5294.0, 5477.0, 5622.0, 5334.0, 5561.0, 5534.0, 5323.0, 5300.0, 5363.0, 5453.0, 5283.0, 5397.0, 5315.0, 5634.0, 5669.0, 5684.0, 5311.0, 5629.0, 5563.0, 5430.0, 5422.0, 5418.0, 5474.0, 5514.0, 5445.0, 5681.0, 5673.0, 5305.0, 5542.0, 5575.0, 5548.0, 5526.0, 5324.0, 5558.0, 5560.0, 5528.0, 5322.0, 5621.0, 5357.0, 5688.0, 5722.0, 5483.0, 5250.0, 5337.0, 5519.0, 5712.0, 5330.0, 5707.0, 5647.0, 5258.0, 5700.0, 5259.0, 5389.0, 5312.0, 5625.0, 5659.0, 5378.0, 5521.0, 5304.0, 5571.0, 5499.0, 5388.0, 5709.0, 5633.0, 5408.0, 5573.0, 5412.0, 5423.0, 5495.0, 5262.0, 5675.0, 5531.0, 5308.0, 5454.0, 5545.0,

						5590.0, 5374.0, 5335.0, 5282.0, 5377.0, 5705.0, 5557.0, 5603.0, 5319.0, 5256.0, 5273.0, 5662.0, 5441.0, 5384.0, 5637.0, 5642.0, 5364.0, 5318.0, 5503.0, 5338.0, 5678.0, 5455.0, 5443.0, 5373.0, 5703.0 (number of hits: 21)
24	5290	9	1	333	1	5724.0, 5382.0, 5507.0, 5282.0, 5482.0, 5452.0, 5617.0, 5373.0, 5428.0, 5701.0, 5457.0, 5601.0, 5566.0, 5455.0, 5625.0, 5483.0, 5349.0, 5365.0, 5509.0, 5471.0, 5600.0, 5521.0, 5646.0, 5550.0, 5398.0, 5447.0, 5444.0, 5590.0, 5296.0, 5571.0, 5409.0, 5292.0, 5367.0, 5426.0, 5318.0, 5417.0, 5636.0, 5273.0, 5258.0, 5314.0, 5309.0, 5644.0, 5547.0, 5480.0, 5488.0, 5526.0, 5574.0, 5667.0, 5353.0, 5640.0, 5311.0, 5669.0, 5344.0, 5433.0, 5437.0, 5343.0, 5532.0, 5260.0, 5511.0, 5406.0, 5696.0, 5706.0, 5423.0, 5605.0, 5658.0, 5280.0, 5717.0, 5624.0, 5544.0, 5393.0, 5563.0, 5708.0, 5499.0, 5555.0, 5326.0, 5577.0, 5250.0, 5467.0, 5611.0, 5378.0, 5525.0, 5322.0, 5589.0, 5672.0, 5438.0, 5598.0, 5682.0, 5281.0, 5533.0, 5687.0, 5670.0, 5585.0, 5599.0, 5512.0, 5538.0, 5536.0, 5662.0, 5690.0, 5328.0, 5252.0 (number of hits: 17)
25	5290	9	1	333	1	5447.0, 5490.0, 5697.0, 5559.0, 5419.0, 5577.0, 5271.0, 5297.0, 5414.0, 5477.0, 5699.0, 5387.0, 5304.0, 5342.0, 5489.0, 5519.0, 5692.0, 5610.0, 5537.0, 5611.0, 5443.0, 5326.0, 5560.0, 5344.0, 5535.0, 5476.0, 5373.0, 5555.0, 5254.0, 5674.0, 5313.0, 5503.0, 5604.0, 5393.0, 5483.0, 5666.0, 5464.0, 5628.0, 5406.0, 5529.0, 5531.0, 5351.0, 5655.0, 5334.0, 5450.0, 5407.0, 5487.0, 5640.0, 5439.0, 5403.0, 5536.0, 5705.0, 5524.0, 5346.0, 5347.0, 5630.0, 5380.0, 5615.0, 5718.0, 5417.0, 5544.0, 5445.0, 5251.0, 5282.0, 5458.0, 5420.0, 5608.0, 5367.0, 5260.0, 5690.0, 5455.0, 5713.0, 5336.0, 5598.0, 5552.0, 5287.0, 5516.0, 5532.0, 5317.0, 5657.0, 5474.0, 5341.0, 5696.0, 5308.0, 5612.0, 5262.0, 5300.0, 5369.0, 5280.0, 5653.0, 5588.0, 5316.0, 5424.0, 5542.0, 5543.0, 5620.0, 5392.0, 5272.0, 5634.0, 5561.0 (number of hits: 17)
26	5290	9	1	333	1	5529.0, 5267.0, 5715.0, 5479.0, 5405.0, 5411.0, 5335.0, 5345.0, 5375.0, 5433.0, 5456.0, 5547.0, 5306.0, 5485.0, 5559.0, 5687.0, 5432.0, 5340.0, 5374.0, 5626.0, 5682.0, 5569.0, 5675.0, 5698.0, 5691.0, 5466.0, 5390.0, 5481.0, 5677.0, 5630.0, 5571.0, 5647.0, 5379.0, 5497.0, 5508.0, 5500.0, 5426.0, 5545.0, 5721.0, 5613.0, 5641.0, 5701.0, 5719.0, 5257.0, 5343.0, 5287.0, 5695.0, 5505.0, 5673.0, 5480.0, 5412.0, 5472.0, 5393.0, 5597.0, 5348.0, 5685.0, 5280.0, 5536.0, 5377.0, 5354.0,

						5451.0, 5302.0, 5606.0, 5714.0, 5696.0, 5312.0, 5402.0, 5263.0, 5260.0, 5521.0, 5711.0, 5250.0, 5539.0, 5365.0, 5525.0, 5406.0, 5661.0, 5563.0, 5609.0, 5401.0, 5493.0, 5282.0, 5366.0, 5293.0, 5441.0, 5473.0, 5620.0, 5469.0, 5575.0, 5333.0, 5394.0, 5527.0, 5576.0, 5470.0, 5604.0, 5298.0, 5446.0, 5256.0, 5368.0, 5642.0 (number of hits: 14)
27	5290	9	1	333	1	5661.0, 5291.0, 5720.0, 5491.0, 5565.0, 5465.0, 5637.0, 5591.0, 5579.0, 5394.0, 5601.0, 5547.0, 5298.0, 5397.0, 5260.0, 5570.0, 5616.0, 5534.0, 5289.0, 5311.0, 5497.0, 5514.0, 5656.0, 5305.0, 5599.0, 5374.0, 5416.0, 5715.0, 5516.0, 5273.0, 5675.0, 5585.0, 5495.0, 5467.0, 5256.0, 5469.0, 5648.0, 5470.0, 5488.0, 5369.0, 5531.0, 5421.0, 5499.0, 5530.0, 5507.0, 5449.0, 5462.0, 5419.0, 5396.0, 5284.0, 5360.0, 5522.0, 5587.0, 5432.0, 5483.0, 5664.0, 5695.0, 5722.0, 5610.0, 5566.0, 5455.0, 5354.0, 5559.0, 5619.0, 5323.0, 5685.0, 5683.0, 5309.0, 5677.0, 5706.0, 5410.0, 5663.0, 5676.0, 5299.0, 5657.0, 5518.0, 5328.0, 5431.0, 5461.0, 5340.0, 5422.0, 5538.0, 5593.0, 5342.0, 5312.0, 5716.0, 5391.0, 5331.0, 5463.0, 5718.0, 5429.0, 5272.0, 5275.0, 5586.0, 5674.0, 5668.0, 5577.0, 5445.0, 5608.0, 5689.0 (number of hits: 16)
28	5290	9	1	333	1	5698.0, 5574.0, 5427.0, 5514.0, 5688.0, 5704.0, 5495.0, 5341.0, 5380.0, 5439.0, 5620.0, 5562.0, 5314.0, 5649.0, 5720.0, 5302.0, 5446.0, 5637.0, 5611.0, 5505.0, 5482.0, 5461.0, 5416.0, 5274.0, 5267.0, 5473.0, 5543.0, 5390.0, 5515.0, 5640.0, 5443.0, 5573.0, 5384.0, 5707.0, 5713.0, 5668.0, 5329.0, 5323.0, 5513.0, 5376.0, 5615.0, 5487.0, 5683.0, 5541.0, 5521.0, 5580.0, 5453.0, 5682.0, 5608.0, 5411.0, 5524.0, 5270.0, 5370.0, 5379.0, 5607.0, 5334.0, 5397.0, 5354.0, 5719.0, 5568.0, 5516.0, 5284.0, 5313.0, 5531.0, 5285.0, 5312.0, 5710.0, 5378.0, 5661.0, 5429.0, 5333.0, 5626.0, 5532.0, 5563.0, 5666.0, 5522.0, 5291.0, 5292.0, 5398.0, 5634.0, 5511.0, 5681.0, 5583.0, 5462.0, 5251.0, 5595.0, 5629.0, 5280.0, 5635.0, 5410.0, 5614.0, 5669.0, 5670.0, 5377.0, 5547.0, 5624.0, 5428.0, 5466.0, 5632.0, 5338.0 (number of hits: 15)
29	5290	9	1	333	1	5327.0, 5547.0, 5642.0, 5551.0, 5540.0, 5313.0, 5265.0, 5664.0, 5367.0, 5412.0, 5525.0, 5637.0, 5531.0, 5716.0, 5578.0, 5506.0, 5545.0, 5521.0, 5398.0, 5597.0, 5691.0, 5402.0, 5263.0, 5695.0, 5561.0, 5520.0, 5722.0, 5603.0, 5363.0, 5311.0, 5374.0, 5460.0, 5343.0, 5558.0, 5337.0, 5481.0, 5567.0, 5689.0, 5371.0, 5288.0, 5553.0, 5529.0, 5354.0, 5434.0, 5297.0,

						5273.0, 5627.0, 5660.0, 5391.0, 5630.0, 5709.0, 5410.0, 5326.0, 5581.0, 5379.0, 5681.0, 5299.0, 5298.0, 5352.0, 5409.0, 5408.0, 5306.0, 5257.0, 5723.0, 5533.0, 5677.0, 5474.0, 5433.0, 5697.0, 5475.0, 5610.0, 5632.0, 5490.0, 5250.0, 5350.0, 5282.0, 5397.0, 5435.0, 5470.0, 5713.0, 5392.0, 5336.0, 5317.0, 5467.0, 5269.0, 5647.0, 5653.0, 5256.0, 5584.0, 5633.0, 5559.0, 5439.0, 5557.0, 5480.0, 5665.0, 5542.0, 5383.0, 5368.0, 5562.0, 5258.0 (number of hits: 19)
30	5290	9	1	333	1	5658.0, 5451.0, 5389.0, 5291.0, 5631.0, 5483.0, 5534.0, 5551.0, 5317.0, 5318.0, 5397.0, 5300.0, 5622.0, 5703.0, 5629.0, 5281.0, 5557.0, 5391.0, 5540.0, 5553.0, 5292.0, 5295.0, 5436.0, 5526.0, 5660.0, 5612.0, 5364.0, 5272.0, 5353.0, 5530.0, 5501.0, 5601.0, 5655.0, 5260.0, 5685.0, 5696.0, 5407.0, 5253.0, 5602.0, 5525.0, 5423.0, 5370.0, 5529.0, 5282.0, 5492.0, 5427.0, 5277.0, 5713.0, 5512.0, 5640.0, 5448.0, 5510.0, 5320.0, 5251.0, 5349.0, 5614.0, 5332.0, 5283.0, 5706.0, 5587.0, 5464.0, 5610.0, 5387.0, 5574.0, 5347.0, 5646.0, 5252.0, 5515.0, 5607.0, 5613.0, 5539.0, 5484.0, 5360.0, 5478.0, 5518.0, 5438.0, 5417.0, 5562.0, 5516.0, 5595.0, 5571.0, 5469.0, 5578.0, 5435.0, 5420.0, 5533.0, 5467.0, 5431.0, 5404.0, 5677.0, 5599.0, 5609.0, 5403.0, 5585.0, 5687.0, 5665.0, 5643.0, 5718.0, 5668.0, 5402.0 (number of hits: 16)

5475-5725MHz, 20MHz Bandwidth

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	93.3 %	60%	Pass
Type 1B	15	93.3%		
Type 2	30	90 %	60%	Pass
Type 3	30	90 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate (Type1 to 4)	120	91.7 %	80%	Pass
Type 5	30	90%	80%	Pass
Type 6	30	96.7 %	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	99	1	538	1
2	5500	76	1	698	1
3	5500	70	1	758	1
4	5500	89	1	598	1
5	5500	62	1	858	1
6	5500	63	1	838	0
7	5500	67	1	798	1
8	5500	65	1	818	1
9	5500	92	1	578	1
10	5500	83	1	638	1
11	5500	78	1	678	1
12	5500	58	1	918	1
13	5500	61	1	878	1
14	5500	86	1	618	1
15	5500	74	1	718	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	21	1	2627	1
2	5500	32	1	1670	1
3	5500	40	1	1344	1
4	5500	58	1	917	1
5	5500	25	1	2160	1
6	5500	27	1	1979	1
7	5500	30	1	1766	1
8	5500	57	1	926	0
9	5500	28	1	1888	1
10	5500	53	1	998	1
11	5500	24	1	2222	1
12	5500	69	1	774	1
13	5500	45	1	1177	1
14	5500	58	1	919	1
15	5500	20	1	2702	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	29	1.9	190	1
2	5500	28	4.4	159	1
3	5500	25	4.4	214	1
4	5500	27	2.5	168	1
5	5500	24	3.9	172	0
6	5500	24	1.1	189	1
7	5500	26	1.7	227	1
8	5500	24	3.1	178	1
9	5500	25	1.8	170	1
10	5500	24	4.5	172	1
11	5500	24	3.5	180	0
12	5500	29	1.7	184	1
13	5500	26	2.2	228	1
14	5500	29	4.6	174	1
15	5500	26	2.1	211	1
16	5500	28	2	192	1
17	5500	23	2.1	177	1
18	5500	27	3.6	175	0
19	5500	27	2.4	180	1
20	5500	26	1.5	164	1
21	5500	25	2.5	152	1
22	5500	28	2.8	203	1
23	5500	23	2.5	181	1
24	5500	27	4.7	170	1
25	5500	23	3.7	172	1
26	5500	24	3.5	171	1
27	5500	28	1.5	179	1
28	5500	28	4.9	213	1
29	5500	24	3.7	209	1
30	5500	29	1.3	166	1
Detection Percentage: 90 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	16	8	407	1
2	5500	16	7.8	302	1
3	5500	17	6.2	446	1
4	5500	16	7.7	383	1
5	5500	16	9.1	337	1
6	5500	16	7.2	476	1
7	5500	18	8.3	249	1
8	5500	16	7.3	381	1
9	5500	18	9	251	1
10	5500	17	8.3	221	0
11	5500	18	6.8	342	1
12	5500	16	6.2	315	1
13	5500	17	9.2	236	1
14	5500	17	6	344	1
15	5500	18	9.9	403	1
16	5500	16	7.1	321	1
17	5500	17	9.1	439	1
18	5500	18	7.8	338	1
19	5500	17	8.7	330	1
20	5500	18	7.2	471	1
21	5500	18	6.8	470	1
22	5500	16	6.5	462	1
23	5500	16	7.6	456	1
24	5500	17	9.2	271	1
25	5500	17	7.9	250	1
26	5500	16	8.1	357	1
27	5500	18	7.7	442	0
28	5500	16	9.6	491	1
29	5500	17	6.8	331	0
30	5500	16	6.9	486	1
Detection Percentage: 90 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	12	16.4	357	1
2	5500	16	19.3	395	1
3	5500	15	17.3	300	1
4	5500	12	11.4	473	1
5	5500	13	20	293	1
6	5500	14	13	212	1
7	5500	16	16	246	1
8	5500	15	11.2	313	0
9	5500	16	17.1	263	1
10	5500	13	19.1	369	1
11	5500	15	13.7	257	1
12	5500	15	18.3	383	1
13	5500	13	18	264	0
14	5500	12	14.5	476	1
15	5500	16	14.3	237	1
16	5500	13	14.5	288	1
17	5500	12	14.6	369	1
18	5500	12	13.3	368	1
19	5500	14	15	203	1
20	5500	14	15.6	478	1
21	5500	16	12.8	418	1
22	5500	16	18.9	308	1
23	5500	16	18.9	309	1
24	5500	15	11.7	310	1
25	5500	14	17.1	334	1
26	5500	13	19.7	410	1
27	5500	13	16	420	1
28	5500	13	18.5	212	1
29	5500	12	17.7	303	1
30	5500	15	11.2	368	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 5 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	81.3	7			527.35	0
2	11	72.8	7	1463	1077	410.581	
3	11	82.6	7	1109		197.462	
4	11	57.3	7	1906		25.713	
5	11	84.7	7	1201		670.664	
6	11	69.6	7	1612		825.335	
7	11	76.3	7			15.315	
8	11	82.7	7	1481	923	1044.716	
9	11	92.8	7	1335		361.917	
10	11	87.7	7	1760		382.918	
11	11	52.6	7			667.909	

Statistics 2 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	9	83.2	7	1488		945.605	1
2	9	51.9	7	1740		700.517	
3	9	82.9	7			756.203	
4	9	70.2	7	1415	1102	403.67	
5	9	74.4	7	1871		289.227	
6	9	67	7	1365		1145.643	
7	9	92.9	7	1346		900.61	
8	9	84.5	7			944.267	
9	9	64.1	7	1757		189.533	

Statistics 3 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	73.6	6	1620		256.855	1
2	14	55.5	6	1059	1925	696.607	
3	14	95.3	6	917		655.734	
4	14	93.5	6	1671	1021	745.251	
5	14	81	6			393.429	
6	14	82.5	6	1410	1147	480.526	
7	14	88.9	6			309.953	
8	14	63.1	6	1203		399.98	
9	14	80.3	6	1431		20.887	
10	14	51.2	6	1472	1417	33.534	
11	14	85.1	6			411.591	
12	14	67.1	6	1263		437.539	
13	14	88.5	6	1365	1381	517.086	
14	14	65.4	6			293.943	

Statistics 4 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	9	64.3	5	1305		920.269	1
2	9	77.9	5	977		232.087	
3	9	71.2	5	1149	1081	919.933	
4	9	74.1	5	1454		1094.67	
5	9	53.8	5	1621		1204.387	
6	9	50	5	1332	1565	495.463	
7	9	55.2	5	1928	1548	581.74	
8	9	87.2	5	1492		1237.067	
9	9	74.9	5	931		118.433	

Statistics 5 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	90.3	5	1413	1693	579.697	1
2	13	95.5	5	1590	1902	903.023	
3	13	91	5	911		226.566	
4	13	70.1	5	1221		502.159	
5	13	52.2	5	1314		19.102	
6	13	69.8	5	1298		580.225	
7	13	91.4	5			512.258	
8	13	59.1	5			463.512	
9	13	91.7	5	1821		229.285	
10	13	90.4	5			64.668	
11	13	63.8	5	1576		248.421	
12	13	88.2	5	1439		850.754	
13	13	82.6	5	1523	1220	607.777	

Statistics 6 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	8	82.1	5			426.507	1
2	8	73.2	5			648.01	
3	8	88	5	1766		536.02	
4	8	54.2	5	992	1463	916.03	
5	8	89.7	5	1361		1281.7	
6	8	100	5	1335	1258	1027.98	
7	8	65.3	5	1280	1218	461.56	
8	8	88.2	5	1750	948	1186.8	

Statistics 7 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	65.7	5	1707	1246	643.615	1
2	12	76.8	5	1617	1418	609.72	
3	12	64.8	5	968	1438	3.46	
4	12	91.2	5			353.68	
5	12	85.2	5	1558		142.1	
6	12	70.5	5	1544	1167	516.34	
7	12	51.1	5			458.27	
8	12	96	5	1727		730.37	
9	12	83.2	5	1028	1492	699.95	
10	12	50.9	5			712.04	
11	12	68.8	5	1294		243.6	
12	12	92.4	5	1532		474.3	

Statistics 8 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.5	6	1402	1262	660.483	1
2	15	52	6	1212		309.68	
3	15	61.1	6	1227		43.31	
4	15	88.8	6			770.69	
5	15	70.4	6			430.91	
6	15	60.9	6			727.54	
7	15	89	6	1719	1608	99	
8	15	50.5	6	1458	1547	180.85	
9	15	93	6	1608	1027	316.24	
10	15	53.9	6	1117		684.43	
11	15	69.9	6	1593	1917	134.61	
12	15	94.1	6	1296	1157	68.42	
13	15	51.4	6	1808		776.7	
14	15	88.8	6	1530		105.6	
15	15	56.2	6	1298		407	

Statistics 9 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	55.1	6	1932		447.874	1
2	17	76.8	6	1820	1599	128.997	
3	17	80.4	6	1538		455.845	
4	17	64.5	6	1691	1250	318.453	
5	17	64.7	6	998	1144	601.861	
6	17	79	6	1063		621.738	
7	17	60	6			529.346	
8	17	83.7	6	1528		681.324	
9	17	92.4	6			452.121	
10	17	73.5	6	1185	1509	590.469	
11	17	92.6	6			420.516	
12	17	69.5	6	1298		21.834	
13	17	80.2	6	1334	1576	315.922	
14	17	51.7	6	1168		275.269	
15	17	62.4	6	1910	1194	56.517	
16	17	88.6	6	1903		29.465	
17	17	74.1	6	1662		370.182	

Statistics 10 (ChirpCenter Frequency: 5500 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	99.6	5	1178	1748	236.527	1
2	15	64.4	5	988	1046	596.61	
3	15	54.2	5	1195		780.78	
4	15	83.1	5			483.01	
5	15	89.2	5			11.72	
6	15	80.3	5	1565		266.47	
7	15	63	5	1791		51	
8	15	71.3	5			270.13	
9	15	76.2	5	1323		233.09	
10	15	94.3	5	1160	1621	296.79	
11	15	87.7	5	1626	1864	400.54	
12	15	88.1	5			317.2	
13	15	56.9	5	1078		543.8	
14	15	53.6	5			90.4	
15	15	65.4	5	1803		762.5	

Statistics 11 (ChirpCenter Frequency: 5493 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	51.7	5	1861	1272	161.026	1
2	20	60.1	5	1494	1053	259.958	
3	20	71.8	5	1209	1810	486.18	
4	20	60.7	5	1762	1522	513.68	
5	20	87.2	5	916	926	99.99	
6	20	85.2	5	951		565.23	
7	20	97.8	5	1402		209.79	
8	20	60.4	5			188.07	
9	20	93.5	5	1484		307.82	
10	20	89.4	5			226.68	
11	20	72	5	1073	1044	405.28	
12	20	50.6	5	981		212.33	
13	20	59.6	5	1542		252.04	
14	20	81.8	5	1151		87.94	
15	20	79.1	5			254.21	
16	20	83.8	5	1565	1240	86.77	
17	20	55.3	5	1470		587.4	
18	20	92.9	5			265.3	
19	20	52.6	5	1450		64.7	
20	20	79.8	5	1240	1349	24.7	

Statistics 12 (ChirpCenter Frequency: 5493 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	82.2	5	1558		534.249	1
2	16	61.8	5			456.34	
3	16	51.5	5	1866		609.45	
4	16	68.9	5	1420	1588	170.18	
5	16	58.1	5			393.16	
6	16	70.4	5	1637		198.74	
7	16	80.8	5			268.51	
8	16	94.2	5	920		309.02	
9	16	67.9	5	1852		100.17	
10	16	70.1	5	1335		291.21	
11	16	57.2	5	1935		482.69	
12	16	96.3	5			612.66	
13	16	55.5	5	1148		87.14	
14	16	80.4	5	1314		494.9	
15	16	75.5	5			515.2	
16	16	95.1	5	1878	1867	98.7	

Statistics 13 (ChirpCenter Frequency: 5493 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	59.6	6	1729		30.275	0
2	14	62	6	1754	1213	681.867	
3	14	90	6	1449		611.244	
4	14	97.4	6	1798		368.281	
5	14	62.2	6	1175	1488	194.439	
6	14	78.6	6	974		488.066	
7	14	53	6	1677		795.833	
8	14	86.3	6			16.9	
9	14	74	6			834.897	
10	14	86.7	6			305.684	
11	14	54.7	6	1369		595.481	
12	14	50.4	6	1559		374.529	
13	14	71.2	6	1572	1866	599.686	
14	14	93.8	6			814.343	

Statistics 14 (ChirpCenter Frequency: 5493 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	69.8	5	1469		507.244	1
2	15	96.7	5	1713		145.971	
3	15	54.8	5	1583	1924	343.02	
4	15	59.2	5	947	1847	226.34	
5	15	76.3	5	1119	1584	365.73	
6	15	96.2	5	1292	1298	656.28	
7	15	99.5	5	1052	1650	667.67	
8	15	82.5	5	1625	1555	136.26	
9	15	85.9	5			786.75	
10	15	78.7	5	1616		536.22	
11	15	73.3	5			456.62	
12	15	73.2	5	1851		22.87	
13	15	86.9	5	920		570.1	
14	15	70.3	5	1843		338	
15	15	55.3	5	1826		401.6	

Statistics 15 (ChirpCenter Frequency: 5493.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	63.1	7	1395	1191	115.304	1
2	11	65.5	7	1878		970.781	
3	11	85	7	1460		696.112	
4	11	73.5	7	1834	1158	931.573	
5	11	85.2	7			283.034	
6	11	68.5	7	1744		185.385	
7	11	55.8	7	1485		182.035	
8	11	98.5	7	1656		931.746	
9	11	58.6	7	1689	1323	791.647	
10	11	58.4	7			868.718	
11	11	50.4	7	1494		893.509	

Statistics 16 (ChirpCenter Frequency: 5493.4 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	97.3	6	1334		256.425	1
2	13	73.1	6	1805		499.423	
3	13	70.1	6			297.286	
4	13	78.9	6			57.059	
5	13	62	6	1752	1599	186.182	
6	13	98.5	6	1144	1431	589.225	
7	13	84	6	1445	1454	800.838	
8	13	63.5	6	1536	1115	302.432	
9	13	71.3	6	1637		913.975	
10	13	90.5	6	1361		132.078	
11	13	73	6	1194	1613	519.651	
12	13	83.9	6	1277		56.654	
13	13	71.3	6	1596		778.577	

Statistics 17 (ChirpCenter Frequency: 5493 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	61	5			297.054	1
2	18	83.7	5	1893		441.633	
3	18	60.4	5	1433		447.077	
4	18	88.9	5	1571		191.02	
5	18	51.8	5	1092		70.923	
6	18	83.5	5			473.297	
7	18	60.9	5	1390		94.95	
8	18	57.3	5	1243		88.843	
9	18	93.3	5	1523		219.407	
10	18	83.5	5	1629	1022	112.55	
11	18	85.9	5			583.103	
12	18	53.9	5	1488		536.507	
13	18	93.9	5			177.87	
14	18	70.5	5			433.163	
15	18	72.3	5	1334		374.307	
16	18	91.7	5			478.5	
17	18	88.6	5	1076	1883	633.333	
18	18	68.1	5	1168	1240	434.967	

Statistics 18 (ChirpCenter Frequency: 5493 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	10	56.5	5	1485		59.854	1
2	10	53.6	5	1089	1066	214.29	
3	10	77.7	5	932		432.98	
4	10	89.5	5	1298		1096.8	
5	10	83.4	5			573.89	
6	10	62.6	5	1499		231.44	
7	10	72.9	5	1002		576.3	
8	10	62.7	5	1494		2.18	
9	10	51.8	5	1326		565.6	
10	10	59.9	5	1390	1492	673.6	

Statistics 19 (ChirpCenter Frequency: 5494.2 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	10	55.3	8	1236		391.371	1
2	10	66.5	8	1102	1232	648.54	
3	10	83.9	8	1439		1036.02	
4	10	96.2	8	1729		326.15	
5	10	54.8	8	1860	1233	915.31	
6	10	57.1	8			965.92	
7	10	93.3	8	922		970.29	
8	10	88.6	8			828.79	
9	10	94.8	8	1233		454.5	
10	10	78.6	8			1077.9	

Statistics 20 (ChirpCenter Frequency: 5493 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	84.4	5	1730		177.565	1
2	11	75.3	5	1354		140.831	
3	11	94.7	5	1024		241.902	
4	11	51.9	5			199.483	
5	11	80.6	5	974		536.604	
6	11	60.8	5			66.335	
7	11	75	5			810.375	
8	11	74.4	5	1422	1633	944.706	
9	11	92.9	5	1708		1026.727	
10	11	66.9	5	944	1893	476.418	
11	11	79.9	5	1125		578.209	

Statistics 21 (ChirpCenter Frequency: 5506.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	97.3	6			458.123	1
2	18	61.1	6	1217		17.92	
3	18	80.6	6	1774		390.567	
4	18	64.7	6	1321	1827	402.03	
5	18	94.4	6	1688		102.873	
6	18	91.2	6	1247		20.697	
7	18	68.9	6	1102		524.29	
8	18	74.6	6	1609		84.373	
9	18	74.7	6	1227	1531	206.127	
10	18	82.6	6	1525		285.98	
11	18	81.3	6	1314		105.063	
12	18	66.6	6	1577		118.627	
13	18	86.5	6	1167	1406	422.32	
14	18	62.8	6	1919		4.333	
15	18	82.2	6	1127		150.757	
16	18	79.4	6	1452		385.7	
17	18	91.7	6			160.033	
18	18	92.5	6	1497	1571	418.467	

Statistics 22 (ChirpCenter Frequency: 5506.2 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	73.2	7	1332	1061	119.741	1
2	12	78.4	7	1401		592.27	
3	12	93.8	7			907.17	
4	12	80.5	7			294.54	
5	12	82.4	7	1415		277.74	
6	12	90.7	7	1899	1644	716.23	
7	12	56.9	7			304.14	
8	12	73.6	7	1191		372.72	
9	12	62.4	7			518.42	
10	12	98.7	7	1175	1306	453.67	
11	12	77.4	7	1266	1636	913.3	
12	12	82.7	7	1703		180.9	

Statistics 23(ChirpCenter Frequency: 5506.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	66.6	6	1520	1572	25.653	1
2	15	78.3	6	1852		697.36	
3	15	75.2	6	1365	1829	123.48	
4	15	69	6	1302		262.33	
5	15	69.1	6			307.33	
6	15	83.7	6	1750	1075	661.38	
7	15	59.5	6	998		80.48	
8	15	88	6			700.09	
9	15	93.3	6			599.81	
10	15	51.6	6	1814	1223	239.02	
11	15	87.6	6	1745	1646	273.36	
12	15	50.2	6	1043		631.01	
13	15	76.5	6			622.9	
14	15	95.3	6	1815	1679	192.7	
15	15	53.3	6	1621		214.9	

Statistics 24(ChirpCenter Frequency: 5507 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	90.9	5	1357	1274	242.421	1
2	19	55.5	5			478.681	
3	19	56	5			287.442	
4	19	66.3	5			117.423	
5	19	76.5	5			509.794	
6	19	68.1	5	1134	1478	496.275	
7	19	67.3	5	1484		345.666	
8	19	80	5			416.117	
9	19	77.1	5	1402		475.138	
10	19	71	5			49.539	
11	19	73	5	1402	1659	118.371	
12	19	53	5			296.112	
13	19	53.3	5	1158	1319	244.913	
14	19	82.3	5	1269	1598	279.014	
15	19	80.1	5	1803		125.335	
16	19	97.6	5	1496	1099	369.756	
17	19	80.2	5	1030	1036	393.837	
18	19	91.6	5	1290		53.358	
19	19	59.4	5	1453	1496	553.879	

Statistics 25(ChirpCenter Frequency: 5507 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	84.2	5	1757	1190	412.846	0
2	11	64.6	5			596.071	
3	11	92.2	5	1357	1215	1064.712	
4	11	81.6	5	1471		87.673	
5	11	52.2	5	1427		118.864	
6	11	56.6	5	1190		744.665	
7	11	53.2	5	1774		673.775	
8	11	64.9	5	1599	1471	991.596	
9	11	92.9	5	1228		109.407	
10	11	58.6	5	1473	1912	624.118	
11	11	54.6	5	1040	1630	55.609	

Statistics 26 (ChirpCenter Frequency: 5507 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	53.5	5	1864		361.909	1
2	18	90.3	5	1884	1635	94.562	
3	18	90.8	5	1799	1234	477.417	
4	18	67.2	5	1420	1883	179.35	
5	18	68.6	5			129.343	
6	18	57.8	5	1446		21.577	
7	18	61.9	5	1812		591.39	
8	18	53.5	5	1602		363.313	
9	18	71.1	5	1850	1730	172.547	
10	18	86.7	5	1255	1714	97.23	
11	18	87.4	5	1813		129.583	
12	18	65.9	5	1486		313.197	
13	18	94.8	5	1327		46.11	
14	18	74.4	5	1728		601.613	
15	18	76.3	5	1427		68.447	
16	18	75.7	5	1545	1384	31.1	
17	18	68.3	5	1187		261.133	
18	18	88.4	5	1165		543.867	

Statistics 27 (ChirpCenter Frequency: 5507 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	94.8	5			71.018	1
2	15	92.4	5			374.62	
3	15	82.4	5	1310	923	172.44	
4	15	59.9	5	1729		756.92	
5	15	69.7	5			188.28	
6	15	51.8	5	1908	1336	581.96	
7	15	82.2	5	1531	1219	63.38	
8	15	92.4	5	1182		315.55	
9	15	67.3	5	1671		412.58	
10	15	65.9	5	1497		528.25	
11	15	86.9	5	1823		394.38	
12	15	77.7	5			646.53	
13	15	89.2	5	1149	1882	438	
14	15	81.3	5	1454		363.4	
15	15	61.8	5	1119		628.1	

Statistics 28 (ChirpCenter Frequency: 5506.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.3	6	1357		116.045	1
2	15	53.3	6			290.82	
3	15	78.5	6	1635	962	427.99	
4	15	62.9	6			119.42	
5	15	85.8	6	1479	1621	624.72	
6	15	82.9	6	1627		787.89	
7	15	89.3	6	1490	1434	48.6	
8	15	53.3	6	1740		511.01	
9	15	94.4	6	1481		267.44	
10	15	62.4	6	1512		591.08	
11	15	52.5	6			653.11	
12	15	51.8	6	1089		396.64	
13	15	96.3	6	1899		468.1	
14	15	71.4	6	1329		67.8	
15	15	53.4	6	1669	1386	640.3	

Statistics 29 (ChirpCenter Frequency: 5507 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	93.9	5	1327		10.057	1
2	18	94.4	5	1035		578.453	
3	18	66.4	5	1689		239.867	
4	18	60.1	5	1377		470.83	
5	18	89	5			205.903	
6	18	71.7	5	1336	1020	632.377	
7	18	75.5	5			326.87	
8	18	51.8	5	1314		568.403	
9	18	57.9	5			445.687	
10	18	61.2	5	1511		362.23	
11	18	61.9	5	1394		347.893	
12	18	88	5	1435		581.917	
13	18	99.6	5	1427	1455	384.42	
14	18	52.4	5	1617	1148	276.123	
15	18	83.2	5			553.187	
16	18	74.7	5	1168	1245	336.6	
17	18	53.6	5	952		53.933	
18	18	93.4	5	1116		184.867	

Statistics 30 (ChirpCenter Frequency: 5505.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	52.5	8	1096	1130	457.955	1
2	16	65.2	8			573.43	
3	16	51.5	8	1801		366.79	
4	16	84.5	8	1762	1172	689.78	
5	16	90.6	8	1109		565.93	
6	16	92.9	8	1279		391.78	
7	16	66.5	8	936		592.18	
8	16	87.1	8	1487		449.89	
9	16	76.3	8	1743	1874	163.98	
10	16	62.3	8	1168		607	
11	16	54.9	8			92.58	
12	16	83.5	8	1697		425.37	
13	16	92	8	1579		420.9	
14	16	82.9	8	1182		551.9	
15	16	72.9	8	1288	1018	689	
16	16	62.1	8			100	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5500	9	1	333	1	5481.0, 5551.0, 5362.0, 5417.0, 5676.0, 5277.0, 5579.0, 5348.0, 5341.0, 5424.0, 5527.0, 5339.0, 5701.0, 5597.0, 5543.0, 5603.0, 5480.0, 5584.0, 5549.0, 5437.0, 5702.0, 5333.0, 5324.0, 5413.0, 5713.0, 5683.0, 5289.0, 5575.0, 5286.0, 5644.0, 5396.0, 5335.0, 5495.0, 5578.0, 5515.0, 5664.0, 5431.0, 5485.0, 5709.0, 5661.0, 5706.0, 5344.0, 5673.0, 5372.0, 5387.0, 5663.0, 5573.0, 5359.0, 5302.0, 5261.0, 5433.0, 5647.0, 5311.0, 5577.0, 5288.0, 5714.0, 5306.0, 5550.0, 5537.0, 5672.0, 5492.0, 5570.0, 5280.0, 5256.0, 5531.0, 5438.0, 5468.0, 5283.0, 5617.0, 5404.0, 5684.0, 5591.0, 5499.0, 5641.0, 5541.0, 5347.0, 5400.0, 5329.0, 5294.0, 5576.0, 5336.0, 5447.0, 5618.0, 5445.0, 5436.0, 5267.0, 5399.0, 5331.0, 5626.0, 5429.0, 5272.0, 5408.0, 5382.0, 5608.0, 5538.0, 5402.0, 5583.0, 5471.0, 5668.0, 5365.0 (number of hits: 3)
2	5500	9	1	333	1	5393.0, 5564.0, 5721.0, 5285.0, 5262.0, 5586.0, 5484.0, 5661.0, 5465.0, 5384.0, 5373.0, 5600.0, 5507.0, 5416.0, 5473.0, 5349.0, 5551.0, 5618.0, 5535.0, 5581.0, 5446.0, 5370.0, 5613.0, 5519.0, 5470.0, 5650.0, 5653.0, 5347.0, 5421.0, 5276.0, 5711.0, 5611.0, 5568.0, 5606.0, 5305.0, 5413.0, 5563.0, 5495.0, 5274.0, 5674.0, 5329.0, 5251.0, 5592.0, 5612.0, 5475.0, 5275.0, 5652.0, 5300.0, 5294.0, 5423.0, 5716.0, 5459.0, 5540.0, 5383.0, 5277.0, 5392.0, 5478.0, 5386.0, 5703.0, 5351.0, 5687.0, 5330.0, 5630.0, 5287.0, 5604.0, 5258.0, 5304.0, 5289.0, 5318.0, 5638.0, 5408.0, 5418.0, 5476.0, 5717.0, 5457.0, 5378.0, 5633.0, 5273.0, 5543.0, 5597.0, 5610.0, 5336.0, 5555.0, 5552.0, 5366.0, 5691.0, 5453.0, 5396.0, 5311.0, 5454.0, 5367.0, 5523.0, 5724.0, 5714.0, 5707.0, 5574.0, 5437.0, 5303.0, 5430.0, 5589.0 (number of hits: 2)
3	5500	9	1	333	1	5429.0, 5416.0, 5313.0, 5675.0, 5380.0, 5549.0, 5571.0, 5301.0, 5632.0, 5652.0, 5599.0, 5515.0, 5298.0, 5713.0, 5370.0, 5716.0, 5566.0, 5674.0, 5291.0, 5577.0, 5267.0, 5340.0, 5334.0, 5476.0, 5337.0, 5353.0, 5707.0, 5462.0, 5387.0, 5414.0, 5557.0, 5656.0, 5626.0, 5654.0, 5375.0, 5344.0, 5591.0, 5669.0, 5671.0, 5550.0, 5548.0, 5442.0, 5419.0, 5361.0, 5717.0, 5634.0, 5319.0, 5651.0, 5484.0, 5691.0, 5578.0, 5678.0, 5644.0, 5400.0, 5381.0, 5256.0, 5317.0, 5277.0, 5292.0, 5511.0,

						5435.0, 5531.0, 5668.0, 5422.0, 5673.0, 5262.0, 5614.0, 5649.0, 5279.0, 5650.0, 5582.0, 5563.0, 5479.0, 5497.0, 5439.0, 5401.0, 5706.0, 5665.0, 5677.0, 5368.0, 5349.0, 5611.0, 5610.0, 5532.0, 5278.0, 5350.0, 5682.0, 5616.0, 5329.0, 5631.0, 5569.0, 5590.0, 5473.0, 5450.0, 5544.0, 5363.0, 5647.0, 5347.0, 5312.0, 5424.0 (number of hits: 1)
4	5500	9	1	333	1	5555.0, 5661.0, 5343.0, 5622.0, 5401.0, 5391.0, 5364.0, 5251.0, 5303.0, 5528.0, 5311.0, 5422.0, 5559.0, 5304.0, 5427.0, 5583.0, 5255.0, 5341.0, 5719.0, 5557.0, 5642.0, 5299.0, 5684.0, 5565.0, 5482.0, 5702.0, 5570.0, 5550.0, 5591.0, 5381.0, 5409.0, 5306.0, 5480.0, 5357.0, 5345.0, 5588.0, 5274.0, 5326.0, 5358.0, 5356.0, 5700.0, 5628.0, 5636.0, 5626.0, 5671.0, 5650.0, 5556.0, 5476.0, 5490.0, 5463.0, 5316.0, 5723.0, 5534.0, 5266.0, 5451.0, 5592.0, 5532.0, 5621.0, 5324.0, 5678.0, 5564.0, 5467.0, 5492.0, 5468.0, 5662.0, 5340.0, 5585.0, 5338.0, 5396.0, 5624.0, 5310.0, 5689.0, 5436.0, 5655.0, 5505.0, 5380.0, 5315.0, 5510.0, 5540.0, 5418.0, 5288.0, 5262.0, 5603.0, 5652.0, 5616.0, 5613.0, 5665.0, 5644.0, 5382.0, 5498.0, 5668.0, 5543.0, 5329.0, 5694.0, 5351.0, 5493.0, 5599.0, 5279.0, 5392.0, 5435.0 (number of hits: 5)
5	5500	9	1	333	1	5422.0, 5344.0, 5269.0, 5611.0, 5702.0, 5416.0, 5421.0, 5685.0, 5501.0, 5370.0, 5676.0, 5461.0, 5377.0, 5546.0, 5259.0, 5341.0, 5592.0, 5566.0, 5338.0, 5288.0, 5692.0, 5609.0, 5440.0, 5258.0, 5637.0, 5319.0, 5643.0, 5346.0, 5498.0, 5703.0, 5299.0, 5619.0, 5668.0, 5545.0, 5581.0, 5593.0, 5414.0, 5604.0, 5562.0, 5315.0, 5675.0, 5393.0, 5624.0, 5323.0, 5583.0, 5509.0, 5335.0, 5646.0, 5358.0, 5438.0, 5463.0, 5542.0, 5289.0, 5537.0, 5374.0, 5368.0, 5279.0, 5311.0, 5456.0, 5564.0, 5340.0, 5406.0, 5278.0, 5647.0, 5621.0, 5553.0, 5589.0, 5615.0, 5321.0, 5302.0, 5659.0, 5523.0, 5670.0, 5518.0, 5467.0, 5298.0, 5331.0, 5511.0, 5712.0, 5443.0, 5267.0, 5626.0, 5392.0, 5395.0, 5381.0, 5595.0, 5324.0, 5555.0, 5588.0, 5327.0, 5459.0, 5650.0, 5533.0, 5623.0, 5601.0, 5648.0, 5582.0, 5565.0, 5529.0, 5536.0 (number of hits: 3)
6	5500	9	1	333	1	5547.0, 5613.0, 5554.0, 5498.0, 5325.0, 5550.0, 5631.0, 5418.0, 5668.0, 5572.0, 5267.0, 5697.0, 5578.0, 5391.0, 5382.0, 5707.0, 5416.0, 5552.0, 5253.0, 5711.0, 5365.0, 5471.0, 5695.0, 5597.0, 5269.0, 5596.0, 5345.0, 5635.0, 5662.0, 5524.0, 5637.0, 5626.0, 5451.0, 5585.0, 5665.0, 5376.0, 5512.0, 5719.0, 5457.0, 5371.0,

						5677.0, 5540.0, 5507.0, 5427.0, 5252.0, 5713.0, 5673.0, 5549.0, 5617.0, 5348.0, 5532.0, 5561.0, 5505.0, 5377.0, 5601.0, 5409.0, 5306.0, 5290.0, 5659.0, 5560.0, 5671.0, 5475.0, 5694.0, 5429.0, 5282.0, 5386.0, 5301.0, 5393.0, 5583.0, 5477.0, 5431.0, 5624.0, 5436.0, 5701.0, 5283.0, 5618.0, 5347.0, 5432.0, 5264.0, 5577.0, 5620.0, 5381.0, 5372.0, 5460.0, 5315.0, 5568.0, 5643.0, 5657.0, 5483.0, 5352.0, 5397.0, 5580.0, 5358.0, 5329.0, 5709.0, 5356.0, 5594.0, 5443.0, 5473.0, 5555.0 (number of hits: 3)
7	5500	9	1	333	1	5290.0, 5393.0, 5436.0, 5675.0, 5635.0, 5382.0, 5307.0, 5411.0, 5286.0, 5612.0, 5643.0, 5291.0, 5639.0, 5337.0, 5576.0, 5400.0, 5331.0, 5500.0, 5368.0, 5273.0, 5437.0, 5403.0, 5475.0, 5343.0, 5459.0, 5435.0, 5644.0, 5693.0, 5710.0, 5497.0, 5709.0, 5260.0, 5424.0, 5255.0, 5614.0, 5717.0, 5663.0, 5679.0, 5362.0, 5511.0, 5532.0, 5423.0, 5546.0, 5296.0, 5504.0, 5496.0, 5577.0, 5672.0, 5534.0, 5365.0, 5418.0, 5593.0, 5257.0, 5551.0, 5433.0, 5533.0, 5600.0, 5572.0, 5388.0, 5519.0, 5483.0, 5279.0, 5501.0, 5650.0, 5637.0, 5581.0, 5346.0, 5396.0, 5357.0, 5671.0, 5336.0, 5667.0, 5360.0, 5498.0, 5301.0, 5383.0, 5617.0, 5375.0, 5315.0, 5670.0, 5275.0, 5623.0, 5665.0, 5553.0, 5654.0, 5589.0, 5292.0, 5508.0, 5607.0, 5656.0, 5309.0, 5642.0, 5484.0, 5350.0, 5701.0, 5606.0, 5322.0, 5611.0, 5599.0, 5474.0 (number of hits: 7)
8	5500	9	1	333	1	5555.0, 5398.0, 5416.0, 5485.0, 5392.0, 5589.0, 5270.0, 5450.0, 5284.0, 5314.0, 5691.0, 5470.0, 5331.0, 5707.0, 5342.0, 5262.0, 5520.0, 5638.0, 5441.0, 5600.0, 5648.0, 5504.0, 5355.0, 5362.0, 5292.0, 5294.0, 5491.0, 5706.0, 5699.0, 5407.0, 5447.0, 5671.0, 5574.0, 5279.0, 5700.0, 5254.0, 5465.0, 5665.0, 5622.0, 5333.0, 5455.0, 5502.0, 5661.0, 5466.0, 5643.0, 5340.0, 5593.0, 5293.0, 5359.0, 5438.0, 5709.0, 5685.0, 5462.0, 5437.0, 5573.0, 5655.0, 5536.0, 5688.0, 5532.0, 5649.0, 5277.0, 5569.0, 5427.0, 5511.0, 5478.0, 5255.0, 5657.0, 5669.0, 5394.0, 5312.0, 5658.0, 5379.0, 5388.0, 5698.0, 5587.0, 5337.0, 5264.0, 5424.0, 5472.0, 5448.0, 5515.0, 5548.0, 5261.0, 5266.0, 5690.0, 5662.0, 5265.0, 5408.0, 5442.0, 5565.0, 5605.0, 5349.0, 5717.0, 5642.0, 5626.0, 5627.0, 5616.0, 5488.0, 5553.0, 5436.0 (number of hits: 3)
9	5500	9	1	333	1	5332.0, 5637.0, 5687.0, 5668.0, 5305.0, 5285.0, 5562.0, 5333.0, 5648.0, 5300.0, 5262.0, 5573.0, 5327.0, 5427.0, 5299.0, 5583.0, 5706.0, 5275.0, 5406.0, 5345.0,

						5250.0, 5454.0, 5284.0, 5372.0, 5717.0, 5419.0, 5698.0, 5439.0, 5598.0, 5398.0, 5347.0, 5335.0, 5633.0, 5484.0, 5257.0, 5267.0, 5723.0, 5303.0, 5359.0, 5636.0, 5337.0, 5580.0, 5604.0, 5271.0, 5446.0, 5319.0, 5688.0, 5659.0, 5707.0, 5418.0, 5684.0, 5338.0, 5361.0, 5714.0, 5677.0, 5591.0, 5408.0, 5281.0, 5601.0, 5669.0, 5493.0, 5416.0, 5570.0, 5365.0, 5476.0, 5420.0, 5261.0, 5318.0, 5367.0, 5378.0, 5273.0, 5549.0, 5600.0, 5457.0, 5466.0, 5642.0, 5339.0, 5413.0, 5539.0, 5308.0, 5505.0, 5422.0, 5276.0, 5595.0, 5453.0, 5578.0, 5465.0, 5502.0, 5512.0, 5402.0, 5266.0, 5461.0, 5621.0, 5627.0, 5424.0, 5395.0, 5606.0, 5675.0, 5701.0, 5487.0 (number of hits: 3)
10	5500	9	1	333	1	5599.0, 5683.0, 5430.0, 5591.0, 5651.0, 5477.0, 5444.0, 5455.0, 5676.0, 5400.0, 5529.0, 5380.0, 5490.0, 5696.0, 5497.0, 5635.0, 5276.0, 5675.0, 5327.0, 5693.0, 5501.0, 5426.0, 5325.0, 5663.0, 5354.0, 5508.0, 5716.0, 5481.0, 5459.0, 5587.0, 5658.0, 5492.0, 5672.0, 5458.0, 5392.0, 5435.0, 5720.0, 5425.0, 5361.0, 5410.0, 5437.0, 5369.0, 5348.0, 5333.0, 5374.0, 5336.0, 5623.0, 5346.0, 5646.0, 5418.0, 5270.0, 5407.0, 5502.0, 5278.0, 5263.0, 5572.0, 5640.0, 5556.0, 5563.0, 5578.0, 5305.0, 5382.0, 5548.0, 5357.0, 5512.0, 5433.0, 5516.0, 5287.0, 5452.0, 5431.0, 5527.0, 5620.0, 5641.0, 5632.0, 5330.0, 5704.0, 5397.0, 5324.0, 5700.0, 5665.0, 5636.0, 5300.0, 5559.0, 5385.0, 5283.0, 5612.0, 5652.0, 5642.0, 5645.0, 5299.0, 5377.0, 5571.0, 5557.0, 5574.0, 5308.0, 5386.0, 5403.0, 5576.0, 5328.0, 5496.0 (number of hits: 7)
11	5500	9	1	333	1	5380.0, 5643.0, 5703.0, 5304.0, 5683.0, 5476.0, 5522.0, 5713.0, 5495.0, 5576.0, 5504.0, 5548.0, 5318.0, 5594.0, 5328.0, 5700.0, 5250.0, 5345.0, 5609.0, 5579.0, 5628.0, 5707.0, 5584.0, 5376.0, 5615.0, 5639.0, 5685.0, 5649.0, 5650.0, 5433.0, 5337.0, 5534.0, 5358.0, 5606.0, 5472.0, 5324.0, 5365.0, 5302.0, 5257.0, 5626.0, 5591.0, 5364.0, 5492.0, 5470.0, 5542.0, 5667.0, 5262.0, 5549.0, 5338.0, 5392.0, 5295.0, 5459.0, 5506.0, 5663.0, 5484.0, 5425.0, 5414.0, 5496.0, 5372.0, 5361.0, 5271.0, 5252.0, 5699.0, 5545.0, 5342.0, 5616.0, 5712.0, 5377.0, 5558.0, 5388.0, 5336.0, 5710.0, 5505.0, 5602.0, 5634.0, 5341.0, 5466.0, 5516.0, 5312.0, 5580.0, 5644.0, 5469.0, 5721.0, 5608.0, 5279.0, 5409.0, 5448.0, 5500.0, 5562.0, 5720.0, 5426.0, 5422.0, 5390.0, 5323.0, 5282.0, 5655.0, 5526.0, 5447.0, 5308.0, 5656.0 (number of hits: 7)

12	5500	9	1	333	1	5327.0, 5574.0, 5636.0, 5440.0, 5548.0, 5572.0, 5454.0, 5612.0, 5540.0, 5624.0, 5344.0, 5631.0, 5591.0, 5308.0, 5724.0, 5313.0, 5698.0, 5272.0, 5582.0, 5350.0, 5489.0, 5349.0, 5638.0, 5386.0, 5413.0, 5460.0, 5394.0, 5606.0, 5444.0, 5585.0, 5279.0, 5665.0, 5442.0, 5694.0, 5666.0, 5520.0, 5662.0, 5627.0, 5699.0, 5464.0, 5472.0, 5383.0, 5296.0, 5396.0, 5486.0, 5348.0, 5252.0, 5316.0, 5402.0, 5539.0, 5570.0, 5718.0, 5321.0, 5357.0, 5514.0, 5504.0, 5466.0, 5622.0, 5584.0, 5462.0, 5623.0, 5712.0, 5537.0, 5580.0, 5603.0, 5700.0, 5668.0, 5282.0, 5687.0, 5655.0, 5650.0, 5586.0, 5407.0, 5457.0, 5395.0, 5576.0, 5569.0, 5392.0, 5257.0, 5592.0, 5270.0, 5354.0, 5589.0, 5398.0, 5494.0, 5388.0, 5495.0, 5284.0, 5330.0, 5458.0, 5441.0, 5709.0, 5259.0, 5338.0, 5583.0, 5352.0, 5291.0, 5269.0, 5615.0, 5633.0 (number of hits: 3)
13	5500	9	1	333	1	5414.0, 5601.0, 5393.0, 5386.0, 5428.0, 5392.0, 5532.0, 5568.0, 5527.0, 5407.0, 5373.0, 5489.0, 5612.0, 5485.0, 5416.0, 5670.0, 5608.0, 5383.0, 5310.0, 5433.0, 5533.0, 5688.0, 5516.0, 5263.0, 5366.0, 5695.0, 5588.0, 5365.0, 5350.0, 5484.0, 5494.0, 5668.0, 5630.0, 5613.0, 5327.0, 5302.0, 5653.0, 5446.0, 5425.0, 5457.0, 5409.0, 5290.0, 5686.0, 5552.0, 5473.0, 5559.0, 5270.0, 5693.0, 5633.0, 5723.0, 5684.0, 5464.0, 5479.0, 5606.0, 5474.0, 5640.0, 5658.0, 5463.0, 5621.0, 5462.0, 5491.0, 5397.0, 5268.0, 5338.0, 5384.0, 5636.0, 5617.0, 5413.0, 5714.0, 5565.0, 5677.0, 5696.0, 5651.0, 5700.0, 5642.0, 5615.0, 5631.0, 5300.0, 5593.0, 5316.0, 5572.0, 5288.0, 5285.0, 5679.0, 5510.0, 5597.0, 5322.0, 5525.0, 5269.0, 5266.0, 5654.0, 5683.0, 5638.0, 5545.0, 5614.0, 5687.0, 5422.0, 5333.0, 5430.0, 5334.0 (number of hits: 2)
14	5500	9	1	333	1	5501.0, 5399.0, 5365.0, 5257.0, 5363.0, 5378.0, 5691.0, 5641.0, 5559.0, 5692.0, 5474.0, 5686.0, 5557.0, 5424.0, 5677.0, 5292.0, 5346.0, 5594.0, 5320.0, 5371.0, 5560.0, 5520.0, 5448.0, 5665.0, 5335.0, 5601.0, 5639.0, 5673.0, 5569.0, 5491.0, 5403.0, 5704.0, 5527.0, 5611.0, 5397.0, 5602.0, 5548.0, 5482.0, 5443.0, 5497.0, 5442.0, 5350.0, 5310.0, 5707.0, 5414.0, 5499.0, 5480.0, 5445.0, 5553.0, 5590.0, 5331.0, 5578.0, 5576.0, 5722.0, 5349.0, 5598.0, 5462.0, 5341.0, 5718.0, 5343.0, 5411.0, 5672.0, 5328.0, 5280.0, 5267.0, 5375.0, 5369.0, 5546.0, 5660.0, 5657.0, 5396.0, 5526.0, 5316.0, 5518.0, 5585.0, 5483.0, 5572.0, 5418.0, 5379.0, 5523.0, 5336.0, 5628.0, 5466.0, 5440.0, 5656.0, 5543.0, 5627.0, 5256.0, 5400.0, 5621.0,

						5616.0, 5685.0, 5261.0, 5638.0, 5269.0, 5535.0, 5701.0, 5272.0, 5366.0, 5351.0 (number of hits: 4)
15	5500	9	1	333	1	5538.0, 5393.0, 5649.0, 5304.0, 5669.0, 5275.0, 5524.0, 5493.0, 5613.0, 5502.0, 5280.0, 5521.0, 5673.0, 5316.0, 5371.0, 5456.0, 5328.0, 5489.0, 5309.0, 5514.0, 5436.0, 5601.0, 5522.0, 5439.0, 5569.0, 5666.0, 5319.0, 5609.0, 5682.0, 5417.0, 5322.0, 5462.0, 5555.0, 5671.0, 5320.0, 5585.0, 5277.0, 5571.0, 5504.0, 5488.0, 5409.0, 5356.0, 5347.0, 5411.0, 5301.0, 5530.0, 5374.0, 5718.0, 5354.0, 5655.0, 5458.0, 5552.0, 5443.0, 5335.0, 5435.0, 5546.0, 5344.0, 5636.0, 5346.0, 5426.0, 5358.0, 5388.0, 5286.0, 5510.0, 5485.0, 5282.0, 5295.0, 5722.0, 5676.0, 5310.0, 5625.0, 5375.0, 5694.0, 5415.0, 5672.0, 5605.0, 5338.0, 5513.0, 5701.0, 5288.0, 5459.0, 5641.0, 5257.0, 5511.0, 5425.0, 5366.0, 5711.0, 5600.0, 5312.0, 5429.0, 5622.0, 5535.0, 5341.0, 5516.0, 5517.0, 5554.0, 5589.0, 5256.0, 5639.0, 5548.0 (number of hits: 3)
16	5500	9	1	333	1	5310.0, 5675.0, 5379.0, 5496.0, 5306.0, 5510.0, 5564.0, 5432.0, 5513.0, 5595.0, 5289.0, 5314.0, 5654.0, 5599.0, 5328.0, 5323.0, 5367.0, 5506.0, 5292.0, 5475.0, 5435.0, 5469.0, 5425.0, 5717.0, 5505.0, 5679.0, 5677.0, 5347.0, 5273.0, 5406.0, 5449.0, 5696.0, 5460.0, 5309.0, 5521.0, 5344.0, 5647.0, 5693.0, 5503.0, 5557.0, 5442.0, 5421.0, 5315.0, 5413.0, 5607.0, 5484.0, 5408.0, 5414.0, 5476.0, 5409.0, 5560.0, 5642.0, 5648.0, 5656.0, 5426.0, 5382.0, 5415.0, 5300.0, 5504.0, 5556.0, 5350.0, 5501.0, 5716.0, 5341.0, 5711.0, 5283.0, 5526.0, 5662.0, 5610.0, 5360.0, 5285.0, 5626.0, 5495.0, 5651.0, 5613.0, 5535.0, 5423.0, 5436.0, 5657.0, 5359.0, 5322.0, 5297.0, 5522.0, 5712.0, 5342.0, 5402.0, 5542.0, 5280.0, 5369.0, 5346.0, 5551.0, 5288.0, 5533.0, 5700.0, 5488.0, 5429.0, 5312.0, 5672.0, 5660.0, 5358.0 (number of hits: 7)
17	5500	9	1	333	1	5447.0, 5645.0, 5287.0, 5310.0, 5594.0, 5681.0, 5518.0, 5433.0, 5429.0, 5568.0, 5401.0, 5637.0, 5721.0, 5500.0, 5402.0, 5675.0, 5723.0, 5336.0, 5596.0, 5582.0, 5622.0, 5506.0, 5554.0, 5529.0, 5466.0, 5308.0, 5395.0, 5311.0, 5566.0, 5455.0, 5331.0, 5322.0, 5511.0, 5528.0, 5534.0, 5448.0, 5301.0, 5560.0, 5635.0, 5379.0, 5626.0, 5496.0, 5643.0, 5671.0, 5416.0, 5533.0, 5335.0, 5581.0, 5361.0, 5701.0, 5549.0, 5387.0, 5611.0, 5326.0, 5375.0, 5396.0, 5625.0, 5400.0, 5551.0, 5696.0, 5532.0, 5538.0, 5453.0, 5394.0, 5670.0, 5370.0, 5484.0, 5494.0, 5713.0, 5286.0, 5550.0, 5520.0, 5338.0, 5369.0, 5393.0,

						5509.0, 5332.0, 5667.0, 5473.0, 5354.0, 5406.0, 5624.0, 5291.0, 5278.0, 5672.0, 5480.0, 5482.0, 5531.0, 5313.0, 5386.0, 5303.0, 5281.0, 5653.0, 5314.0, 5603.0, 5553.0, 5471.0, 5583.0, 5371.0, 5300.0 (number of hits: 5)
18	5500	9	1	333	1	5356.0, 5449.0, 5338.0, 5499.0, 5578.0, 5400.0, 5527.0, 5326.0, 5627.0, 5265.0, 5446.0, 5256.0, 5314.0, 5371.0, 5491.0, 5478.0, 5304.0, 5503.0, 5391.0, 5425.0, 5313.0, 5272.0, 5514.0, 5378.0, 5563.0, 5484.0, 5583.0, 5676.0, 5406.0, 5671.0, 5595.0, 5285.0, 5617.0, 5611.0, 5316.0, 5442.0, 5426.0, 5659.0, 5658.0, 5387.0, 5616.0, 5682.0, 5536.0, 5633.0, 5706.0, 5620.0, 5523.0, 5281.0, 5693.0, 5580.0, 5606.0, 5401.0, 5574.0, 5589.0, 5270.0, 5280.0, 5273.0, 5550.0, 5492.0, 5711.0, 5493.0, 5639.0, 5398.0, 5710.0, 5396.0, 5690.0, 5610.0, 5435.0, 5372.0, 5637.0, 5482.0, 5722.0, 5532.0, 5714.0, 5534.0, 5513.0, 5494.0, 5521.0, 5543.0, 5490.0, 5472.0, 5502.0, 5707.0, 5717.0, 5509.0, 5635.0, 5708.0, 5343.0, 5289.0, 5483.0, 5508.0, 5582.0, 5656.0, 5476.0, 5450.0, 5650.0, 5724.0, 5667.0, 5621.0, 5411.0 (number of hits: 10)
19	5500	9	1	333	1	5359.0, 5715.0, 5631.0, 5616.0, 5445.0, 5284.0, 5376.0, 5510.0, 5509.0, 5660.0, 5534.0, 5661.0, 5381.0, 5367.0, 5424.0, 5711.0, 5686.0, 5515.0, 5435.0, 5721.0, 5281.0, 5542.0, 5385.0, 5361.0, 5489.0, 5466.0, 5700.0, 5404.0, 5322.0, 5309.0, 5321.0, 5350.0, 5658.0, 5504.0, 5449.0, 5375.0, 5383.0, 5254.0, 5439.0, 5314.0, 5355.0, 5279.0, 5697.0, 5464.0, 5600.0, 5259.0, 5287.0, 5716.0, 5622.0, 5349.0, 5584.0, 5556.0, 5566.0, 5428.0, 5582.0, 5402.0, 5310.0, 5623.0, 5613.0, 5432.0, 5588.0, 5335.0, 5426.0, 5493.0, 5538.0, 5481.0, 5453.0, 5597.0, 5614.0, 5533.0, 5265.0, 5712.0, 5501.0, 5654.0, 5257.0, 5573.0, 5642.0, 5465.0, 5326.0, 5258.0, 5676.0, 5640.0, 5425.0, 5352.0, 5696.0, 5379.0, 5653.0, 5371.0, 5705.0, 5286.0, 5306.0, 5550.0, 5423.0, 5548.0, 5494.0, 5685.0, 5267.0, 5709.0, 5694.0, 5602.0 (number of hits: 5)
20	5500	9	1	333	1	5650.0, 5254.0, 5307.0, 5391.0, 5479.0, 5503.0, 5682.0, 5677.0, 5270.0, 5339.0, 5278.0, 5601.0, 5252.0, 5546.0, 5302.0, 5393.0, 5497.0, 5653.0, 5255.0, 5475.0, 5323.0, 5290.0, 5618.0, 5626.0, 5686.0, 5441.0, 5629.0, 5331.0, 5450.0, 5681.0, 5317.0, 5697.0, 5615.0, 5493.0, 5660.0, 5407.0, 5379.0, 5472.0, 5551.0, 5590.0, 5718.0, 5282.0, 5380.0, 5354.0, 5714.0, 5300.0, 5643.0, 5390.0, 5655.0, 5359.0, 5544.0, 5657.0, 5563.0, 5491.0, 5442.0,

						5501.0, 5291.0, 5708.0, 5414.0, 5622.0, 5316.0, 5573.0, 5691.0, 5426.0, 5410.0, 5700.0, 5487.0, 5398.0, 5365.0, 5710.0, 5340.0, 5367.0, 5579.0, 5572.0, 5452.0, 5557.0, 5467.0, 5370.0, 5280.0, 5449.0, 5722.0, 5392.0, 5600.0, 5549.0, 5690.0, 5597.0, 5287.0, 5364.0, 5620.0, 5518.0, 5309.0, 5581.0, 5662.0, 5258.0, 5304.0, 5431.0, 5264.0, 5312.0, 5325.0, 5422.0 (number of hits: 5)
21	5500	9	1	333	1	5478.0, 5367.0, 5455.0, 5360.0, 5339.0, 5342.0, 5293.0, 5425.0, 5271.0, 5591.0, 5677.0, 5689.0, 5354.0, 5620.0, 5619.0, 5432.0, 5585.0, 5617.0, 5637.0, 5406.0, 5579.0, 5648.0, 5386.0, 5384.0, 5561.0, 5601.0, 5467.0, 5519.0, 5670.0, 5593.0, 5352.0, 5264.0, 5622.0, 5487.0, 5266.0, 5564.0, 5652.0, 5340.0, 5537.0, 5483.0, 5362.0, 5436.0, 5435.0, 5371.0, 5493.0, 5534.0, 5602.0, 5615.0, 5571.0, 5565.0, 5508.0, 5482.0, 5575.0, 5578.0, 5439.0, 5389.0, 5278.0, 5469.0, 5715.0, 5270.0, 5366.0, 5660.0, 5557.0, 5302.0, 5682.0, 5605.0, 5604.0, 5716.0, 5257.0, 5348.0, 5319.0, 5441.0, 5320.0, 5468.0, 5543.0, 5393.0, 5387.0, 5674.0, 5690.0, 5636.0, 5566.0, 5402.0, 5587.0, 5583.0, 5413.0, 5363.0, 5706.0, 5509.0, 5629.0, 5364.0, 5650.0, 5480.0, 5632.0, 5505.0, 5285.0, 5289.0, 5511.0, 5658.0, 5295.0, 5430.0 (number of hits: 4)
22	5500	9	1	333	1	5332.0, 5553.0, 5695.0, 5682.0, 5666.0, 5653.0, 5614.0, 5584.0, 5622.0, 5654.0, 5580.0, 5565.0, 5512.0, 5555.0, 5677.0, 5647.0, 5478.0, 5578.0, 5687.0, 5402.0, 5363.0, 5443.0, 5389.0, 5508.0, 5689.0, 5426.0, 5452.0, 5270.0, 5662.0, 5430.0, 5337.0, 5581.0, 5455.0, 5713.0, 5310.0, 5285.0, 5381.0, 5521.0, 5366.0, 5309.0, 5568.0, 5534.0, 5582.0, 5383.0, 5316.0, 5330.0, 5526.0, 5593.0, 5712.0, 5279.0, 5573.0, 5630.0, 5585.0, 5265.0, 5575.0, 5640.0, 5350.0, 5340.0, 5636.0, 5268.0, 5343.0, 5595.0, 5538.0, 5377.0, 5646.0, 5331.0, 5303.0, 5428.0, 5360.0, 5328.0, 5688.0, 5716.0, 5479.0, 5420.0, 5321.0, 5493.0, 5376.0, 5394.0, 5413.0, 5696.0, 5353.0, 5714.0, 5486.0, 5357.0, 5706.0, 5665.0, 5276.0, 5336.0, 5334.0, 5496.0, 5619.0, 5554.0, 5621.0, 5477.0, 5612.0, 5679.0, 5329.0, 5436.0, 5422.0, 5598.0 (number of hits: 3)
23	5500	9	1	333	1	5722.0, 5595.0, 5618.0, 5395.0, 5471.0, 5355.0, 5561.0, 5508.0, 5541.0, 5639.0, 5719.0, 5685.0, 5661.0, 5679.0, 5436.0, 5545.0, 5251.0, 5630.0, 5382.0, 5621.0, 5326.0, 5570.0, 5490.0, 5556.0, 5459.0, 5475.0, 5550.0, 5314.0, 5449.0, 5658.0, 5682.0, 5479.0, 5598.0, 5604.0, 5330.0,

						5265.0, 5522.0, 5374.0, 5575.0, 5546.0, 5600.0, 5342.0, 5689.0, 5723.0, 5258.0, 5458.0, 5277.0, 5649.0, 5628.0, 5491.0, 5665.0, 5608.0, 5616.0, 5321.0, 5554.0, 5620.0, 5340.0, 5305.0, 5700.0, 5312.0, 5615.0, 5603.0, 5696.0, 5638.0, 5648.0, 5413.0, 5275.0, 5502.0, 5683.0, 5657.0, 5352.0, 5466.0, 5572.0, 5426.0, 5564.0, 5585.0, 5289.0, 5509.0, 5354.0, 5699.0, 5532.0, 5623.0, 5662.0, 5283.0, 5351.0, 5431.0, 5451.0, 5264.0, 5280.0, 5695.0, 5668.0, 5569.0, 5477.0, 5252.0, 5391.0, 5356.0, 5578.0, 5267.0, 5274.0, 5627.0 (number of hits: 5)
24	5500	9	1	333	0	
25	5500	9	1	333	1	5653.0, 5350.0, 5337.0, 5380.0, 5424.0, 5598.0, 5504.0, 5374.0, 5255.0, 5426.0, 5505.0, 5381.0, 5611.0, 5610.0, 5551.0, 5463.0, 5559.0, 5432.0, 5596.0, 5436.0, 5672.0, 5445.0, 5616.0, 5584.0, 5691.0, 5654.0, 5327.0, 5330.0, 5655.0, 5420.0, 5491.0, 5389.0, 5456.0, 5450.0, 5298.0, 5649.0, 5386.0, 5516.0, 5707.0, 5573.0, 5718.0, 5614.0, 5428.0, 5554.0, 5303.0, 5404.0, 5628.0, 5569.0, 5449.0, 5553.0, 5720.0, 5399.0, 5552.0, 5412.0, 5336.0, 5629.0, 5434.0, 5521.0, 5658.0, 5265.0, 5460.0, 5604.0, 5348.0, 5296.0, 5544.0, 5579.0, 5470.0, 5492.0, 5609.0, 5624.0, 5410.0, 5632.0, 5295.0, 5369.0, 5659.0, 5546.0, 5442.0, 5684.0, 5400.0, 5269.0, 5572.0, 5533.0, 5479.0, 5558.0, 5293.0, 5589.0, 5603.0, 5706.0, 5714.0, 5676.0, 5679.0, 5423.0, 5716.0, 5288.0, 5472.0, 5469.0, 5557.0, 5397.0, 5361.0, 5458.0 (number of hits: 4)
26	5500	9	1	333	1	5394.0, 5628.0, 5349.0, 5651.0, 5544.0, 5369.0, 5419.0, 5517.0, 5647.0, 5377.0, 5562.0, 5256.0, 5496.0, 5568.0, 5297.0, 5622.0, 5626.0, 5717.0, 5353.0, 5255.0, 5440.0, 5364.0, 5427.0, 5267.0, 5632.0, 5418.0, 5598.0, 5571.0, 5382.0, 5300.0, 5285.0, 5570.0, 5425.0, 5501.0, 5702.0, 5339.0, 5643.0, 5687.0, 5586.0, 5366.0, 5422.0, 5459.0, 5697.0, 5435.0, 5445.0, 5679.0, 5461.0, 5500.0, 5505.0, 5400.0, 5536.0, 5668.0, 5644.0, 5446.0, 5541.0, 5506.0, 5584.0, 5688.0, 5356.0, 5630.0, 5604.0, 5551.0, 5540.0, 5548.0, 5430.0, 5332.0, 5360.0, 5600.0, 5301.0, 5721.0, 5276.0, 5508.0, 5471.0, 5703.0, 5722.0, 5662.0, 5608.0, 5535.0, 5318.0, 5258.0, 5712.0, 5337.0, 5268.0, 5705.0, 5691.0, 5638.0, 5565.0, 5453.0, 5619.0, 5642.0, 5345.0, 5678.0, 5519.0, 5550.0, 5530.0, 5696.0, 5409.0, 5481.0, 5272.0, 5342.0 (number of hits: 6)
27	5500	9	1	333	1	5583.0, 5529.0, 5534.0, 5251.0, 5530.0, 5301.0, 5672.0, 5660.0, 5555.0, 5482.0, 5668.0, 5591.0, 5420.0, 5503.0, 5595.0,

						5389.0, 5464.0, 5703.0, 5693.0, 5412.0, 5612.0, 5369.0, 5331.0, 5508.0, 5544.0, 5509.0, 5402.0, 5257.0, 5453.0, 5330.0, 5426.0, 5350.0, 5357.0, 5574.0, 5557.0, 5382.0, 5297.0, 5633.0, 5282.0, 5571.0, 5383.0, 5425.0, 5435.0, 5276.0, 5260.0, 5363.0, 5573.0, 5411.0, 5604.0, 5379.0, 5348.0, 5356.0, 5468.0, 5366.0, 5268.0, 5458.0, 5620.0, 5256.0, 5714.0, 5285.0, 5462.0, 5281.0, 5500.0, 5441.0, 5510.0, 5417.0, 5262.0, 5720.0, 5670.0, 5349.0, 5388.0, 5525.0, 5599.0, 5622.0, 5397.0, 5619.0, 5421.0, 5700.0, 5393.0, 5444.0, 5368.0, 5352.0, 5531.0, 5415.0, 5250.0, 5501.0, 5542.0, 5652.0, 5424.0, 5719.0, 5347.0, 5371.0, 5254.0, 5427.0, 5358.0, 5561.0, 5498.0, 5649.0, 5333.0, 5288.0 (number of hits: 6)
28	5500	9	1	333	1	5594.0, 5642.0, 5278.0, 5714.0, 5513.0, 5341.0, 5390.0, 5405.0, 5600.0, 5581.0, 5599.0, 5378.0, 5556.0, 5496.0, 5663.0, 5375.0, 5319.0, 5688.0, 5251.0, 5406.0, 5506.0, 5295.0, 5441.0, 5376.0, 5470.0, 5643.0, 5621.0, 5286.0, 5316.0, 5450.0, 5257.0, 5494.0, 5284.0, 5449.0, 5529.0, 5535.0, 5326.0, 5460.0, 5420.0, 5541.0, 5719.0, 5660.0, 5311.0, 5442.0, 5412.0, 5655.0, 5510.0, 5310.0, 5519.0, 5584.0, 5694.0, 5713.0, 5610.0, 5666.0, 5423.0, 5446.0, 5254.0, 5427.0, 5531.0, 5608.0, 5373.0, 5686.0, 5609.0, 5540.0, 5411.0, 5363.0, 5279.0, 5585.0, 5364.0, 5315.0, 5317.0, 5514.0, 5501.0, 5664.0, 5455.0, 5294.0, 5327.0, 5669.0, 5456.0, 5422.0, 5436.0, 5370.0, 5657.0, 5389.0, 5337.0, 5689.0, 5590.0, 5428.0, 5618.0, 5631.0, 5649.0, 5358.0, 5256.0, 5509.0, 5481.0, 5572.0, 5320.0, 5647.0, 5463.0, 5553.0 (number of hits: 5)
29	5500	9	1	333	1	5275.0, 5607.0, 5495.0, 5608.0, 5576.0, 5542.0, 5281.0, 5419.0, 5575.0, 5408.0, 5460.0, 5475.0, 5723.0, 5291.0, 5344.0, 5586.0, 5299.0, 5550.0, 5553.0, 5308.0, 5717.0, 5436.0, 5518.0, 5349.0, 5624.0, 5635.0, 5441.0, 5444.0, 5665.0, 5363.0, 5567.0, 5697.0, 5421.0, 5537.0, 5367.0, 5413.0, 5440.0, 5562.0, 5643.0, 5415.0, 5491.0, 5670.0, 5612.0, 5677.0, 5262.0, 5516.0, 5372.0, 5437.0, 5649.0, 5598.0, 5369.0, 5638.0, 5331.0, 5501.0, 5424.0, 5505.0, 5264.0, 5319.0, 5418.0, 5469.0, 5480.0, 5675.0, 5698.0, 5691.0, 5646.0, 5512.0, 5556.0, 5616.0, 5596.0, 5336.0, 5714.0, 5452.0, 5529.0, 5301.0, 5387.0, 5428.0, 5684.0, 5345.0, 5412.0, 5532.0, 5705.0, 5689.0, 5657.0, 5636.0, 5420.0, 5672.0, 5497.0, 5721.0, 5287.0, 5253.0, 5558.0, 5627.0, 5296.0, 5642.0, 5391.0, 5618.0, 5398.0, 5640.0, 5271.0, 5565.0 (number of hits: 5)

30	5500	9	1	333	1	5338.0, 5527.0, 5478.0, 5529.0, 5571.0, 5374.0, 5632.0, 5704.0, 5284.0, 5524.0, 5431.0, 5698.0, 5700.0, 5617.0, 5340.0, 5641.0, 5407.0, 5546.0, 5549.0, 5442.0, 5649.0, 5422.0, 5335.0, 5349.0, 5357.0, 5298.0, 5405.0, 5286.0, 5629.0, 5302.0, 5261.0, 5359.0, 5489.0, 5712.0, 5368.0, 5316.0, 5683.0, 5388.0, 5569.0, 5581.0, 5522.0, 5603.0, 5256.0, 5390.0, 5262.0, 5500.0, 5258.0, 5521.0, 5640.0, 5255.0, 5380.0, 5336.0, 5294.0, 5361.0, 5699.0, 5451.0, 5538.0, 5391.0, 5404.0, 5384.0, 5287.0, 5675.0, 5573.0, 5353.0, 5561.0, 5310.0, 5692.0, 5532.0, 5292.0, 5534.0, 5411.0, 5435.0, 5503.0, 5572.0, 5508.0, 5717.0, 5687.0, 5543.0, 5580.0, 5332.0, 5600.0, 5430.0, 5615.0, 5562.0, 5557.0, 5567.0, 5418.0, 5556.0, 5397.0, 5716.0, 5306.0, 5518.0, 5587.0, 5488.0, 5536.0, 5645.0, 5653.0, 5260.0, 5485.0, 5545.0 (number of hits: 3)

40MHz Bandwidth

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	93.3 %	60%	Pass
Type 1B	15	93.3%		
Type 2	30	93.3 %	60%	Pass
Type 3	30	93.3%	60%	Pass
Type 4	30	83.3 %	60%	Pass
Aggregate (Type1 to 4)	120	90.8 %	80%	Pass
Type 5	30	90%	80%	Pass
Type 6	30	96.7 %	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	74	1	718	1
2	5510	83	1	638	1
3	5510	102	1	518	1
4	5510	63	1	838	1
5	5510	18	1	3066	1
6	5510	59	1	898	1
7	5510	68	1	778	1
8	5510	76	1	698	1
9	5510	95	1	558	1
10	5510	89	1	598	1
11	5510	67	1	798	1
12	5510	70	1	758	1
13	5510	78	1	678	1
14	5510	81	1	658	1
15	5510	58	1	918	0
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	5510	20	1	2650	1
2	5510	18	1	3044	1
3	5510	28	1	1896	1
4	5510	18	1	2978	1
5	5510	74	1	721	1
6	5510	36	1	1483	1
7	5510	40	1	1331	1
8	5510	20	1	2755	1
9	5510	81	1	656	1
10	5510	29	1	1869	1
11	5510	96	1	550	1
12	5510	24	1	2210	0
13	5510	24	1	2242	1
14	5510	23	1	2295	1
15	5510	38	1	1391	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	26	4.3	197	1
2	5510	25	4.3	190	0
3	5510	23	4	229	1
4	5510	23	1.5	177	1
5	5510	23	3.7	226	1
6	5510	29	2.7	159	1
7	5510	29	1.2	206	1
8	5510	26	2.2	208	1
9	5510	25	4.8	177	1
10	5510	28	1.9	157	1
11	5510	23	1.1	191	1
12	5510	26	1.8	177	1
13	5510	27	2.8	198	1
14	5510	25	5	201	1
15	5510	26	3.9	158	1
16	5510	23	1.1	171	1
17	5510	24	3	213	0
18	5510	23	3.6	192	1
19	5510	27	4.3	154	1
20	5510	25	1.9	207	1
21	5510	29	5	168	1
22	5510	25	4	155	1
23	5510	25	3.4	176	1
24	5510	23	4.7	207	1
25	5510	23	1.6	197	1
26	5510	29	1.3	229	1
27	5510	25	1.5	216	1
28	5510	24	3.2	181	1
29	5510	28	2.1	217	1
30	5510	27	3	211	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	16	9.5	403	1
2	5510	18	8.7	415	1
3	5510	18	6.4	434	0
4	5510	18	8	295	1
5	5510	16	6.1	494	1
6	5510	18	7.6	241	1
7	5510	16	6.2	245	1
8	5510	16	6.9	403	1
9	5510	17	8.8	404	1
10	5510	18	9.2	251	1
11	5510	17	7.2	479	1
12	5510	18	9.8	395	1
13	5510	17	6.4	489	1
14	5510	16	9.6	260	1
15	5510	17	8.7	369	1
16	5510	16	7.1	218	1
17	5510	16	8.6	430	1
18	5510	17	9	369	1
19	5510	16	9.3	250	1
20	5510	17	9.1	498	1
21	5510	17	9.5	331	1
22	5510	17	8.9	264	1
23	5510	18	6.2	307	1
24	5510	17	8.2	316	1
25	5510	18	9.5	281	1
26	5510	18	7.5	255	1
27	5510	17	8.6	351	1
28	5510	16	9.7	344	1
29	5510	18	9.4	453	1
30	5510	17	7.9	345	0
Detection Percentage: 93.3 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	13	19.8	256	1
2	5510	16	11.8	393	1
3	5510	16	16.1	449	0
4	5510	14	16.1	482	1
5	5510	14	17.5	412	0
6	5510	13	11.7	462	1
7	5510	12	12	231	1
8	5510	16	17.3	390	1
9	5510	12	15.2	413	0
10	5510	14	13.6	258	1
11	5510	16	12.3	336	1
12	5510	16	15.2	342	1
13	5510	14	18.5	324	1
14	5510	12	17.4	368	1
15	5510	13	12.1	391	1
16	5510	16	18.2	397	1
17	5510	12	19.8	337	1
18	5510	12	15.8	429	1
19	5510	14	19.3	217	1
20	5510	15	18.5	477	1
21	5510	15	15.2	341	1
22	5510	13	13.6	271	1
23	5510	13	16.3	315	1
24	5510	15	17.1	219	1
25	5510	15	18.5	445	1
26	5510	13	15.4	354	1
27	5510	16	17.2	320	1
28	5510	16	19	226	1
29	5510	13	15.4	484	0
30	5510	16	18.5	219	0
Detection Percentage: 83.3 % (>60%)					

Radar Type 5 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	81.3	7			527.35	1
2	11	72.8	7	1463	1077	410.581	
3	11	82.6	7	1109		197.462	
4	11	57.3	7	1906		25.713	
5	11	84.7	7	1201		670.664	
6	11	69.6	7	1612		825.335	
7	11	76.3	7			15.315	
8	11	82.7	7	1481	923	1044.716	
9	11	92.8	7	1335		361.917	
10	11	87.7	7	1760		382.918	
11	11	52.6	7			667.909	

Statistics 2 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	59.6	6	1729		30.275	1
2	14	62	6	1754	1213	681.867	
3	14	90	6	1449		611.244	
4	14	97.4	6	1798		368.281	
5	14	62.2	6	1175	1488	194.439	
6	14	78.6	6	974		488.066	
7	14	53	6	1677		795.833	
8	14	86.3	6			16.9	
9	14	74	6			834.897	
10	14	86.7	6			305.684	
11	14	54.7	6	1369		595.481	
12	14	50.4	6	1559		374.529	
13	14	71.2	6	1572	1866	599.686	
14	14	93.8	6			814.343	

Statistics 3 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	73.6	6	1620		256.855	1
2	14	55.5	6	1059	1925	696.607	
3	14	95.3	6	917		655.734	
4	14	93.5	6	1671	1021	745.251	
5	14	81	6			393.429	
6	14	82.5	6	1410	1147	480.526	
7	14	88.9	6			309.953	
8	14	63.1	6	1203		399.98	
9	14	80.3	6	1431		20.887	
10	14	51.2	6	1472	1417	33.534	
11	14	85.1	6			411.591	
12	14	67.1	6	1263		437.539	
13	14	88.5	6	1365	1381	517.086	
14	14	65.4	6			293.943	

Statistics 4 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	70.4	5	1883	1336	606.971	1
2	19	67	5	1140		350.193	
3	19	72.2	5	1631		380.002	
4	19	88.2	5	1700		101.333	
5	19	81	5	1259		82.124	
6	19	79.8	5	1482	1645	95.215	
7	19	83.1	5	1111		256.166	
8	19	88.2	5	1582		134.167	
9	19	76.5	5	1743		466.728	
10	19	99.8	5	1517		575.759	
11	19	81.9	5	1227		385.341	
12	19	68.3	5			264.502	
13	19	68.5	5			344.443	
14	19	55.7	5	1659	1130	463.364	
15	19	83.1	5	1461		424.825	
16	19	72.1	5	1728	1346	278.916	
17	19	93	5	1529	998	357.437	
18	19	74.8	5	1630		233.158	
19	19	90.5	5	1402		201.979	

Statistics 5 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	90.3	5	1413	1693	579.697	1
2	13	95.5	5	1590	1902	903.023	
3	13	91	5	911		226.566	
4	13	70.1	5	1221		502.159	
5	13	52.2	5	1314		19.102	
6	13	69.8	5	1298		580.225	
7	13	91.4	5			512.258	
8	13	59.1	5			463.512	
9	13	91.7	5	1821		229.285	
10	13	90.4	5			64.668	
11	13	63.8	5	1576		248.421	
12	13	88.2	5	1439		850.754	
13	13	82.6	5	1523	1220	607.777	

Statistics 6 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	62.5	5	1768		91.276	1
2	17	57.9	5	1883		586.568	
3	17	78	5	1522		646.585	
4	17	97.6	5	1834		649.903	
5	17	90	5	1240	1767	674.221	
6	17	96.2	5	1355		328.568	
7	17	57.3	5	1189		469.816	
8	17	77.2	5	1456		524.814	
9	17	69.3	5	1340	930	689.371	
10	17	58.3	5	1239	1914	85.149	
11	17	94.6	5			526.186	
12	17	55.6	5			648.374	
13	17	70.7	5	1925	1147	653.982	
14	17	54.4	5	1175	1186	87.519	
15	17	56.6	5	1688	1323	321.747	
16	17	86.2	5	1837		269.265	
17	17	80.9	5	1544	931	295.782	

Statistics 7 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	65.7	5	1707	1246	643.615	1
2	12	76.8	5	1617	1418	609.72	
3	12	64.8	5	968	1438	3.46	
4	12	91.2	5			353.68	
5	12	85.2	5	1558		142.1	
6	12	70.5	5	1544	1167	516.34	
7	12	51.1	5			458.27	
8	12	96	5	1727		730.37	
9	12	83.2	5	1028	1492	699.95	
10	12	50.9	5			712.04	
11	12	68.8	5	1294		243.6	
12	12	92.4	5	1532		474.3	

Statistics 8 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.5	6	1402	1262	660.483	1
2	15	52	6	1212		309.68	
3	15	61.1	6	1227		43.31	
4	15	88.8	6			770.69	
5	15	70.4	6			430.91	
6	15	60.9	6			727.54	
7	15	89	6	1719	1608	99	
8	15	50.5	6	1458	1547	180.85	
9	15	93	6	1608	1027	316.24	
10	15	53.9	6	1117		684.43	
11	15	69.9	6	1593	1917	134.61	
12	15	94.1	6	1296	1157	68.42	
13	15	51.4	6	1808		776.7	
14	15	88.8	6	1530		105.6	
15	15	56.2	6	1298		407	

Statistics 9 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	55.1	6	1932		447.874	1
2	17	76.8	6	1820	1599	128.997	
3	17	80.4	6	1538		455.845	
4	17	64.5	6	1691	1250	318.453	
5	17	64.7	6	998	1144	601.861	
6	17	79	6	1063		621.738	
7	17	60	6			529.346	
8	17	83.7	6	1528		681.324	
9	17	92.4	6			452.121	
10	17	73.5	6	1185	1509	590.469	
11	17	92.6	6			420.516	
12	17	69.5	6	1298		21.834	
13	17	80.2	6	1334	1576	315.922	
14	17	51.7	6	1168		275.269	
15	17	62.4	6	1910	1194	56.517	
16	17	88.6	6	1903		29.465	
17	17	74.1	6	1662		370.182	

Statistics 10 (ChirpCenter Frequency: 5510 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	99.6	5	1178	1748	236.527	1
2	15	64.4	5	988	1046	596.61	
3	15	54.2	5	1195		780.78	
4	15	83.1	5			483.01	
5	15	89.2	5			11.72	
6	15	80.3	5	1565		266.47	
7	15	63	5	1791		51	
8	15	71.3	5			270.13	
9	15	76.2	5	1323		233.09	
10	15	94.3	5	1160	1621	296.79	
11	15	87.7	5	1626	1864	400.54	
12	15	88.1	5			317.2	
13	15	56.9	5	1078		543.8	
14	15	53.6	5			90.4	
15	15	65.4	5	1803		762.5	

Statistics 11 (ChirpCenter Frequency: 5494MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	51.7	5	1861	1272	161.026	0
2	20	60.1	5	1494	1053	259.958	
3	20	71.8	5	1209	1810	486.18	
4	20	60.7	5	1762	1522	513.68	
5	20	87.2	5	916	926	99.99	
6	20	85.2	5	951		565.23	
7	20	97.8	5	1402		209.79	
8	20	60.4	5			188.07	
9	20	93.5	5	1484		307.82	
10	20	89.4	5			226.68	
11	20	72	5	1073	1044	405.28	
12	20	50.6	5	981		212.33	
13	20	59.6	5	1542		252.04	
14	20	81.8	5	1151		87.94	
15	20	79.1	5			254.21	
16	20	83.8	5	1565	1240	86.77	
17	20	55.3	5	1470		587.4	
18	20	92.9	5			265.3	
19	20	52.6	5	1450		64.7	
20	20	79.8	5	1240	1349	24.7	

Statistics 12 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	80.9	5	1657		562.762	1
2	20	59.1	5	1489		487.36	
3	20	80.5	5	1208	1121	197.51	
4	20	92.5	5	1518	1620	580.4	
5	20	61.7	5	1018		159.72	
6	20	78.4	5	1100	1656	234.55	
7	20	88.5	5	1092		129.34	
8	20	77.9	5	1797		172.22	
9	20	79.3	5	1042		474.53	
10	20	96.3	5			58.61	
11	20	74.8	5	1618	1155	37.18	
12	20	58.7	5			560.52	
13	20	59.6	5	1484		542.48	
14	20	60.2	5	1617		276.43	
15	20	50.5	5			388.61	
16	20	88.9	5			108.44	
17	20	87.7	5	1715		95.06	
18	20	68	5			52.5	
19	20	52.3	5			367	
20	20	57.8	5	1714		483.2	

Statistics 13 (ChirpCenter Frequency: 5494.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	83.9	7			306.702	1
2	18	82.6	7			130.713	
3	18	84	7	1576		269.837	
4	18	64.4	7	1409	1382	245.7	
5	18	61.8	7			72.973	
6	18	65.2	7	1911	1175	235.297	
7	18	90.8	7	1509		158.85	
8	18	82.1	7	1643	1764	601.853	
9	18	83.1	7			75.617	
10	18	81.6	7			168.4	
11	18	68.1	7	1351		466.183	
12	18	79.5	7			347.027	
13	18	84.3	7	1039		612.24	
14	18	88.8	7			166.273	
15	18	73.8	7	1760	1756	659.807	
16	18	86.2	7	1903		592.3	
17	18	79.3	7			533.033	
18	18	57.6	7	1905		444.767	

Statistics 14 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	69.8	5	1469		507.244	0
2	15	96.7	5	1713		145.971	
3	15	54.8	5	1583	1924	343.02	
4	15	59.2	5	947	1847	226.34	
5	15	76.3	5	1119	1584	365.73	
6	15	96.2	5	1292	1298	656.28	
7	15	99.5	5	1052	1650	667.67	
8	15	82.5	5	1625	1555	136.26	
9	15	85.9	5			786.75	
10	15	78.7	5	1616		536.22	
11	15	73.3	5			456.62	
12	15	73.2	5	1851		22.87	
13	15	86.9	5	920		570.1	
14	15	70.3	5	1843		338	
15	15	55.3	5	1826		401.6	

Statistics 15 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	74.6	5	1375		355.44	1
2	19	91.7	5	1603		229.659	
3	19	69.5	5	1767	1426	615.242	
4	19	74.7	5	1757		286.993	
5	19	55.4	5	1197		177.854	
6	19	67.1	5			235.825	
7	19	68.9	5	1473	1181	518.836	
8	19	53.7	5			95.017	
9	19	82.4	5	1470	1704	384.978	
10	19	96.4	5	1594	981	132.059	
11	19	93.7	5	1260	1250	223.621	
12	19	82.4	5	927		77.282	
13	19	73.8	5	1164	1791	111.973	
14	19	98	5	1680		565.424	
15	19	52.2	5	1700		177.235	
16	19	60.8	5	1397		243.286	
17	19	61.6	5	1768		532.737	
18	19	96.8	5	1345		144.258	
19	19	64	5	984	959	40.379	

Statistics 16 (ChirpCenter Frequency: 5494MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	97.3	6	1334		256.425	1
2	13	73.1	6	1805		499.423	
3	13	70.1	6			297.286	
4	13	78.9	6			57.059	
5	13	62	6	1752	1599	186.182	
6	13	98.5	6	1144	1431	589.225	
7	13	84	6	1445	1454	800.838	
8	13	63.5	6	1536	1115	302.432	
9	13	71.3	6	1637		913.975	
10	13	90.5	6	1361		132.078	
11	13	73	6	1194	1613	519.651	
12	13	83.9	6	1277		56.654	
13	13	71.3	6	1596		778.577	

Statistics 17 (ChirpCenter Frequency: 5494MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	61	5			297.054	1
2	18	83.7	5	1893		441.633	
3	18	60.4	5	1433		447.077	
4	18	88.9	5	1571		191.02	
5	18	51.8	5	1092		70.923	
6	18	83.5	5			473.297	
7	18	60.9	5	1390		94.95	
8	18	57.3	5	1243		88.843	
9	18	93.3	5	1523		219.407	
10	18	83.5	5	1629	1022	112.55	
11	18	85.9	5			583.103	
12	18	53.9	5	1488		536.507	
13	18	93.9	5			177.87	
14	18	70.5	5			433.163	
15	18	72.3	5	1334		374.307	
16	18	91.7	5			478.5	
17	18	88.6	5	1076	1883	633.333	
18	18	68.1	5	1168	1240	434.967	

Statistics 18 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	10	56.5	5	1485		59.854	1
2	10	53.6	5	1089	1066	214.29	
3	10	77.7	5	932		432.98	
4	10	89.5	5	1298		1096.8	
5	10	83.4	5			573.89	
6	10	62.6	5	1499		231.44	
7	10	72.9	5	1002		576.3	
8	10	62.7	5	1494		2.18	
9	10	51.8	5	1326		565.6	
10	10	59.9	5	1390	1492	673.6	

Statistics 19 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	54.4	5			459.028	1
2	19	94.1	5			108.929	
3	19	75.7	5	1648		426.402	
4	19	68.4	5	1024	1824	576.153	
5	19	83	5	1113	1521	503.334	
6	19	60.2	5	1918	1074	592.855	
7	19	54.9	5	1705		30.716	
8	19	85.4	5	1336		57.297	
9	19	99.3	5			253.958	
10	19	97.3	5	1293	1629	353.369	
11	19	82.5	5	1367		520.181	
12	19	55.7	5	1496		260.852	
13	19	65.5	5	1620	1188	64.143	
14	19	61.9	5	1730		198.284	
15	19	92.7	5	1776	1859	305.215	
16	19	78.9	5	1166	1029	353.016	
17	19	86.4	5	1007	1497	411.637	
18	19	80.8	5	1537		386.758	
19	19	86.9	5	1090		512.579	

Statistics 20 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	84.4	5	1730		177.565	1
2	11	75.3	5	1354		140.831	
3	11	94.7	5	1024		241.902	
4	11	51.9	5			199.483	
5	11	80.6	5	974		536.604	
6	11	60.8	5			66.335	
7	11	75	5			810.375	
8	11	74.4	5	1422	1633	944.706	
9	11	92.9	5	1708		1026.727	
10	11	66.9	5	944	1893	476.418	
11	11	79.9	5	1125		578.209	

Statistics 21 (ChirpCenter Frequency: 5525.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	97.3	6			458.123	1
2	18	61.1	6	1217		17.92	
3	18	80.6	6	1774		390.567	
4	18	64.7	6	1321	1827	402.03	
5	18	94.4	6	1688		102.873	
6	18	91.2	6	1247		20.697	
7	18	68.9	6	1102		524.29	
8	18	74.6	6	1609		84.373	
9	18	74.7	6	1227	1531	206.127	
10	18	82.6	6	1525		285.98	
11	18	81.3	6	1314		105.063	
12	18	66.6	6	1577		118.627	
13	18	86.5	6	1167	1406	422.32	
14	18	62.8	6	1919		4.333	
15	18	82.2	6	1127		150.757	
16	18	79.4	6	1452		385.7	
17	18	91.7	6			160.033	
18	18	92.5	6	1497	1571	418.467	

Statistics 22 (ChirpCenter Frequency: 5525.2 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	73.2	7	1332	1061	119.741	1
2	12	78.4	7	1401		592.27	
3	12	93.8	7			907.17	
4	12	80.5	7			294.54	
5	12	82.4	7	1415		277.74	
6	12	90.7	7	1899	1644	716.23	
7	12	56.9	7			304.14	
8	12	73.6	7	1191		372.72	
9	12	62.4	7			518.42	
10	12	98.7	7	1175	1306	453.67	
11	12	77.4	7	1266	1636	913.3	
12	12	82.7	7	1703		180.9	

Statistics 23(ChirpCenter Frequency: 5525.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	66.6	6	1520	1572	25.653	1
2	15	78.3	6	1852		697.36	
3	15	75.2	6	1365	1829	123.48	
4	15	69	6	1302		262.33	
5	15	69.1	6			307.33	
6	15	83.7	6	1750	1075	661.38	
7	15	59.5	6	998		80.48	
8	15	88	6			700.09	
9	15	93.3	6			599.81	
10	15	51.6	6	1814	1223	239.02	
11	15	87.6	6	1745	1646	273.36	
12	15	50.2	6	1043		631.01	
13	15	76.5	6			622.9	
14	15	95.3	6	1815	1679	192.7	
15	15	53.3	6	1621		214.9	

Statistics 24(ChirpCenter Frequency: 5526 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	90.9	5	1357	1274	242.421	1
2	19	55.5	5			478.681	
3	19	56	5			287.442	
4	19	66.3	5			117.423	
5	19	76.5	5			509.794	
6	19	68.1	5	1134	1478	496.275	
7	19	67.3	5	1484		345.666	
8	19	80	5			416.117	
9	19	77.1	5	1402		475.138	
10	19	71	5			49.539	
11	19	73	5	1402	1659	118.371	
12	19	53	5			296.112	
13	19	53.3	5	1158	1319	244.913	
14	19	82.3	5	1269	1598	279.014	
15	19	80.1	5	1803		125.335	
16	19	97.6	5	1496	1099	369.756	
17	19	80.2	5	1030	1036	393.837	
18	19	91.6	5	1290		53.358	
19	19	59.4	5	1453	1496	553.879	

Statistics 25(ChirpCenter Frequency: 5526 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	62.3	5			513.765	1
2	16	66.7	5	1005	1547	395.91	
3	16	93.7	5	1904		46.75	
4	16	66.1	5	1828		587.25	
5	16	81.7	5	1178		259.23	
6	16	96.5	5			636.66	
7	16	68	5	1368		295.39	
8	16	72	5			662.29	
9	16	89.7	5			347.87	
10	16	53.7	5			118.81	
11	16	57.2	5	1477	1625	640.78	
12	16	75.1	5	1712		637.89	
13	16	72.3	5	969		656.01	
14	16	61.7	5	1454	1731	133.31	
15	16	78.8	5	1501		349.9	
16	16	62.6	5	1104		222.8	

Statistics 26 (ChirpCenter Frequency: 5526 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	53.5	5	1864		361.909	0
2	18	90.3	5	1884	1635	94.562	
3	18	90.8	5	1799	1234	477.417	
4	18	67.2	5	1420	1883	179.35	
5	18	68.6	5			129.343	
6	18	57.8	5	1446		21.577	
7	18	61.9	5	1812		591.39	
8	18	53.5	5	1602		363.313	
9	18	71.1	5	1850	1730	172.547	
10	18	86.7	5	1255	1714	97.23	
11	18	87.4	5	1813		129.583	
12	18	65.9	5	1486		313.197	
13	18	94.8	5	1327		46.11	
14	18	74.4	5	1728		601.613	
15	18	76.3	5	1427		68.447	
16	18	75.7	5	1545	1384	31.1	
17	18	68.3	5	1187		261.133	
18	18	88.4	5	1165		543.867	

Statistics 27 (ChirpCenter Frequency: 5526 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	94.8	5			71.018	1
2	15	92.4	5			374.62	
3	15	82.4	5	1310	923	172.44	
4	15	59.9	5	1729		756.92	
5	15	69.7	5			188.28	
6	15	51.8	5	1908	1336	581.96	
7	15	82.2	5	1531	1219	63.38	
8	15	92.4	5	1182		315.55	
9	15	67.3	5	1671		412.58	
10	15	65.9	5	1497		528.25	
11	15	86.9	5	1823		394.38	
12	15	77.7	5			646.53	
13	15	89.2	5	1149	1882	438	
14	15	81.3	5	1454		363.4	
15	15	61.8	5	1119		628.1	

Statistics 28 (ChirpCenter Frequency: 5525.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.3	6	1357		116.045	1
2	15	53.3	6			290.82	
3	15	78.5	6	1635	962	427.99	
4	15	62.9	6			119.42	
5	15	85.8	6	1479	1621	624.72	
6	15	82.9	6	1627		787.89	
7	15	89.3	6	1490	1434	48.6	
8	15	53.3	6	1740		511.01	
9	15	94.4	6	1481		267.44	
10	15	62.4	6	1512		591.08	
11	15	52.5	6			653.11	
12	15	51.8	6	1089		396.64	
13	15	96.3	6	1899		468.1	
14	15	71.4	6	1329		67.8	
15	15	53.4	6	1669	1386	640.3	

Statistics 29 (ChirpCenter Frequency: 5526 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	93.9	5	1327		10.057	1
2	18	94.4	5	1035		578.453	
3	18	66.4	5	1689		239.867	
4	18	60.1	5	1377		470.83	
5	18	89	5			205.903	
6	18	71.7	5	1336	1020	632.377	
7	18	75.5	5			326.87	
8	18	51.8	5	1314		568.403	
9	18	57.9	5			445.687	
10	18	61.2	5	1511		362.23	
11	18	61.9	5	1394		347.893	
12	18	88	5	1435		581.917	
13	18	99.6	5	1427	1455	384.42	
14	18	52.4	5	1617	1148	276.123	
15	18	83.2	5			553.187	
16	18	74.7	5	1168	1245	336.6	
17	18	53.6	5	952		53.933	
18	18	93.4	5	1116		184.867	

Statistics 30 (ChirpCenter Frequency: 5524.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	52.5	8	1096	1130	457.955	1
2	16	65.2	8			573.43	
3	16	51.5	8	1801		366.79	
4	16	84.5	8	1762	1172	689.78	
5	16	90.6	8	1109		565.93	
6	16	92.9	8	1279		391.78	
7	16	66.5	8	936		592.18	
8	16	87.1	8	1487		449.89	
9	16	76.3	8	1743	1874	163.98	
10	16	62.3	8	1168		607	
11	16	54.9	8			92.58	
12	16	83.5	8	1697		425.37	
13	16	92	8	1579		420.9	
14	16	82.9	8	1182		551.9	
15	16	72.9	8	1288	1018	689	
16	16	62.1	8			100	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5510	9	1	333	1	5563.0, 5260.0, 5263.0, 5323.0, 5602.0, 5650.0, 5308.0, 5701.0, 5388.0, 5574.0, 5312.0, 5467.0, 5708.0, 5501.0, 5719.0, 5441.0, 5418.0, 5550.0, 5288.0, 5514.0, 5265.0, 5286.0, 5331.0, 5485.0, 5276.0, 5487.0, 5363.0, 5561.0, 5377.0, 5612.0, 5350.0, 5583.0, 5476.0, 5522.0, 5416.0, 5515.0, 5508.0, 5460.0, 5548.0, 5378.0, 5405.0, 5556.0, 5718.0, 5457.0, 5464.0, 5614.0, 5320.0, 5295.0, 5374.0, 5366.0, 5408.0, 5410.0, 5483.0, 5685.0, 5474.0, 5253.0, 5589.0, 5422.0, 5604.0, 5676.0, 5290.0, 5339.0, 5292.0, 5463.0, 5345.0, 5497.0, 5546.0, 5385.0, 5523.0, 5623.0, 5353.0, 5275.0, 5507.0, 5450.0, 5412.0, 5710.0, 5336.0, 5716.0, 5296.0, 5549.0, 5660.0, 5601.0, 5440.0, 5496.0, 5670.0, 5588.0, 5717.0, 5343.0, 5356.0, 5393.0, 5369.0, 5610.0, 5473.0, 5446.0, 5627.0, 5442.0, 5481.0, 5569.0, 5723.0, 5266.0 (number of hits: 9)
2	5510	9	1	333	1	5484.0, 5575.0, 5471.0, 5404.0, 5514.0, 5299.0, 5497.0, 5697.0, 5477.0, 5333.0, 5341.0, 5273.0, 5615.0, 5328.0, 5350.0, 5681.0, 5495.0, 5604.0, 5441.0, 5553.0, 5365.0, 5391.0, 5678.0, 5300.0, 5534.0, 5643.0, 5576.0, 5425.0, 5322.0, 5676.0, 5631.0, 5617.0, 5690.0, 5600.0, 5634.0, 5348.0, 5317.0, 5542.0, 5438.0, 5644.0, 5307.0, 5392.0, 5260.0, 5468.0, 5606.0, 5648.0, 5635.0, 5522.0, 5334.0, 5565.0, 5675.0, 5405.0, 5475.0, 5563.0, 5570.0, 5498.0, 5531.0, 5515.0, 5429.0, 5430.0, 5519.0, 5593.0, 5608.0, 5268.0, 5496.0, 5626.0, 5554.0, 5686.0, 5620.0, 5559.0, 5709.0, 5540.0, 5550.0, 5276.0, 5352.0, 5443.0, 5428.0, 5533.0, 5323.0, 5316.0, 5461.0, 5572.0, 5389.0, 5367.0, 5546.0, 5408.0, 5539.0, 5548.0, 5537.0, 5271.0, 5368.0, 5362.0, 5684.0, 5494.0, 5574.0, 5688.0, 5361.0, 5257.0, 5280.0, 5508.0 (number of hits: 10)
3	5510	9	1	333	1	5300.0, 5352.0, 5272.0, 5629.0, 5408.0, 5721.0, 5350.0, 5587.0, 5580.0, 5655.0, 5423.0, 5322.0, 5265.0, 5563.0, 5640.0, 5465.0, 5674.0, 5493.0, 5610.0, 5379.0, 5574.0, 5536.0, 5326.0, 5445.0, 5669.0, 5471.0, 5516.0, 5426.0, 5456.0, 5395.0, 5635.0, 5429.0, 5301.0, 5273.0, 5537.0, 5670.0, 5435.0, 5541.0, 5677.0, 5585.0, 5702.0, 5557.0, 5613.0, 5420.0, 5637.0, 5251.0, 5486.0, 5263.0, 5299.0, 5705.0, 5258.0, 5409.0, 5347.0, 5374.0, 5474.0, 5654.0, 5442.0, 5526.0, 5479.0, 5633.0,

						5276.0, 5331.0, 5619.0, 5321.0, 5427.0, 5405.0, 5696.0, 5710.0, 5500.0, 5354.0, 5281.0, 5695.0, 5615.0, 5547.0, 5632.0, 5461.0, 5685.0, 5524.0, 5609.0, 5369.0, 5438.0, 5713.0, 5682.0, 5576.0, 5481.0, 5507.0, 5406.0, 5648.0, 5279.0, 5597.0, 5270.0, 5458.0, 5383.0, 5533.0, 5304.0, 5683.0, 5592.0, 5567.0, 5469.0, 5431.0 (number of hits: 6)
4	5510	9	1	333	1	5665.0, 5575.0, 5374.0, 5679.0, 5655.0, 5524.0, 5282.0, 5712.0, 5266.0, 5251.0, 5330.0, 5514.0, 5641.0, 5510.0, 5564.0, 5691.0, 5267.0, 5451.0, 5631.0, 5708.0, 5680.0, 5415.0, 5283.0, 5718.0, 5292.0, 5544.0, 5463.0, 5397.0, 5705.0, 5338.0, 5490.0, 5410.0, 5285.0, 5532.0, 5439.0, 5349.0, 5455.0, 5677.0, 5522.0, 5657.0, 5563.0, 5707.0, 5441.0, 5323.0, 5614.0, 5554.0, 5466.0, 5437.0, 5476.0, 5722.0, 5640.0, 5692.0, 5255.0, 5273.0, 5426.0, 5595.0, 5503.0, 5583.0, 5662.0, 5429.0, 5431.0, 5277.0, 5534.0, 5427.0, 5516.0, 5513.0, 5308.0, 5279.0, 5272.0, 5710.0, 5422.0, 5387.0, 5561.0, 5499.0, 5318.0, 5443.0, 5574.0, 5444.0, 5611.0, 5366.0, 5589.0, 5319.0, 5536.0, 5372.0, 5377.0, 5347.0, 5373.0, 5525.0, 5457.0, 5632.0, 5417.0, 5578.0, 5658.0, 5606.0, 5412.0, 5258.0, 5458.0, 5317.0, 5688.0, 5449.0 (number of hits: 10)
5	5510	9	1	333	1	5666.0, 5593.0, 5331.0, 5319.0, 5574.0, 5399.0, 5291.0, 5501.0, 5617.0, 5347.0, 5307.0, 5506.0, 5644.0, 5560.0, 5640.0, 5526.0, 5396.0, 5632.0, 5539.0, 5548.0, 5540.0, 5627.0, 5316.0, 5586.0, 5585.0, 5256.0, 5499.0, 5285.0, 5310.0, 5687.0, 5334.0, 5667.0, 5607.0, 5608.0, 5601.0, 5516.0, 5463.0, 5488.0, 5374.0, 5481.0, 5252.0, 5554.0, 5563.0, 5255.0, 5591.0, 5656.0, 5445.0, 5569.0, 5457.0, 5661.0, 5702.0, 5576.0, 5375.0, 5442.0, 5579.0, 5413.0, 5363.0, 5592.0, 5598.0, 5452.0, 5336.0, 5330.0, 5571.0, 5677.0, 5697.0, 5623.0, 5429.0, 5367.0, 5521.0, 5427.0, 5260.0, 5625.0, 5418.0, 5257.0, 5292.0, 5350.0, 5716.0, 5280.0, 5603.0, 5530.0, 5542.0, 5674.0, 5354.0, 5446.0, 5269.0, 5456.0, 5572.0, 5577.0, 5290.0, 5323.0, 5478.0, 5284.0, 5635.0, 5493.0, 5547.0, 5692.0, 5513.0, 5584.0, 5305.0, 5381.0 (number of hits: 8)
6	5510	9	1	333	1	5381.0, 5710.0, 5456.0, 5355.0, 5627.0, 5672.0, 5587.0, 5382.0, 5550.0, 5597.0, 5253.0, 5435.0, 5514.0, 5320.0, 5496.0, 5573.0, 5378.0, 5521.0, 5542.0, 5265.0, 5314.0, 5458.0, 5649.0, 5279.0, 5590.0, 5660.0, 5497.0, 5377.0, 5342.0, 5562.0, 5260.0, 5579.0, 5701.0, 5716.0, 5451.0, 5512.0, 5255.0, 5388.0, 5369.0, 5252.0,

						5690.0, 5602.0, 5576.0, 5442.0, 5671.0, 5667.0, 5634.0, 5666.0, 5530.0, 5333.0, 5714.0, 5436.0, 5650.0, 5554.0, 5528.0, 5603.0, 5689.0, 5655.0, 5386.0, 5544.0, 5461.0, 5498.0, 5393.0, 5363.0, 5324.0, 5433.0, 5312.0, 5709.0, 5513.0, 5287.0, 5385.0, 5502.0, 5336.0, 5350.0, 5659.0, 5593.0, 5501.0, 5412.0, 5549.0, 5581.0, 5605.0, 5318.0, 5281.0, 5718.0, 5472.0, 5483.0, 5604.0, 5641.0, 5616.0, 5365.0, 5398.0, 5425.0, 5644.0, 5346.0, 5289.0, 5251.0, 5446.0, 5526.0, 5723.0, 5271.0 (number of hits: 11)
7	5510	9	1	333	1	5253.0, 5285.0, 5646.0, 5292.0, 5313.0, 5589.0, 5448.0, 5251.0, 5365.0, 5381.0, 5639.0, 5399.0, 5327.0, 5397.0, 5470.0, 5336.0, 5679.0, 5532.0, 5698.0, 5432.0, 5570.0, 5390.0, 5558.0, 5496.0, 5659.0, 5258.0, 5686.0, 5282.0, 5702.0, 5411.0, 5454.0, 5295.0, 5507.0, 5527.0, 5685.0, 5357.0, 5343.0, 5424.0, 5324.0, 5647.0, 5335.0, 5615.0, 5364.0, 5252.0, 5261.0, 5706.0, 5369.0, 5294.0, 5723.0, 5486.0, 5535.0, 5638.0, 5578.0, 5360.0, 5551.0, 5254.0, 5651.0, 5323.0, 5511.0, 5442.0, 5629.0, 5711.0, 5544.0, 5680.0, 5709.0, 5689.0, 5597.0, 5257.0, 5719.0, 5581.0, 5311.0, 5489.0, 5255.0, 5279.0, 5394.0, 5691.0, 5667.0, 5636.0, 5320.0, 5300.0, 5649.0, 5625.0, 5429.0, 5522.0, 5457.0, 5271.0, 5622.0, 5533.0, 5488.0, 5610.0, 5550.0, 5436.0, 5342.0, 5366.0, 5456.0, 5284.0, 5406.0, 5513.0, 5276.0, 5559.0 (number of hits: 6)
8	5510	9	1	333	1	5531.0, 5399.0, 5253.0, 5444.0, 5493.0, 5591.0, 5482.0, 5654.0, 5701.0, 5650.0, 5705.0, 5702.0, 5507.0, 5471.0, 5523.0, 5346.0, 5460.0, 5582.0, 5670.0, 5564.0, 5254.0, 5455.0, 5427.0, 5320.0, 5604.0, 5287.0, 5665.0, 5649.0, 5716.0, 5421.0, 5326.0, 5424.0, 5452.0, 5416.0, 5710.0, 5632.0, 5618.0, 5703.0, 5642.0, 5508.0, 5699.0, 5322.0, 5380.0, 5328.0, 5437.0, 5364.0, 5317.0, 5513.0, 5354.0, 5693.0, 5293.0, 5620.0, 5338.0, 5506.0, 5520.0, 5358.0, 5545.0, 5393.0, 5284.0, 5568.0, 5595.0, 5598.0, 5480.0, 5365.0, 5342.0, 5433.0, 5410.0, 5652.0, 5383.0, 5438.0, 5583.0, 5686.0, 5396.0, 5588.0, 5315.0, 5374.0, 5431.0, 5494.0, 5578.0, 5524.0, 5643.0, 5265.0, 5355.0, 5722.0, 5412.0, 5272.0, 5489.0, 5567.0, 5684.0, 5336.0, 5442.0, 5600.0, 5348.0, 5521.0, 5697.0, 5499.0, 5636.0, 5445.0, 5389.0, 5268.0 (number of hits: 11)
9	5510	9	1	333	1	5312.0, 5417.0, 5439.0, 5383.0, 5351.0, 5430.0, 5525.0, 5343.0, 5378.0, 5278.0, 5267.0, 5547.0, 5631.0, 5431.0, 5311.0, 5437.0, 5414.0, 5661.0, 5558.0, 5472.0,

						5353.0, 5441.0, 5341.0, 5571.0, 5509.0, 5399.0, 5597.0, 5649.0, 5528.0, 5704.0, 5390.0, 5352.0, 5636.0, 5454.0, 5691.0, 5465.0, 5381.0, 5721.0, 5361.0, 5254.0, 5696.0, 5354.0, 5392.0, 5577.0, 5318.0, 5492.0, 5639.0, 5561.0, 5536.0, 5434.0, 5526.0, 5486.0, 5462.0, 5268.0, 5358.0, 5685.0, 5443.0, 5648.0, 5255.0, 5496.0, 5427.0, 5333.0, 5360.0, 5304.0, 5508.0, 5716.0, 5701.0, 5402.0, 5703.0, 5635.0, 5270.0, 5606.0, 5500.0, 5498.0, 5549.0, 5600.0, 5565.0, 5616.0, 5357.0, 5260.0, 5384.0, 5403.0, 5307.0, 5251.0, 5393.0, 5563.0, 5640.0, 5269.0, 5287.0, 5674.0, 5385.0, 5613.0, 5488.0, 5276.0, 5372.0, 5295.0, 5456.0, 5285.0, 5264.0, 5706.0 (number of hits: 9)
10	5510	9	1	333	1	5292.0, 5426.0, 5525.0, 5550.0, 5431.0, 5669.0, 5411.0, 5708.0, 5328.0, 5481.0, 5262.0, 5444.0, 5385.0, 5382.0, 5710.0, 5456.0, 5281.0, 5375.0, 5523.0, 5319.0, 5360.0, 5284.0, 5458.0, 5420.0, 5295.0, 5634.0, 5398.0, 5506.0, 5656.0, 5364.0, 5316.0, 5585.0, 5578.0, 5442.0, 5269.0, 5347.0, 5430.0, 5610.0, 5721.0, 5436.0, 5547.0, 5571.0, 5538.0, 5690.0, 5461.0, 5453.0, 5630.0, 5707.0, 5631.0, 5589.0, 5607.0, 5459.0, 5570.0, 5620.0, 5567.0, 5303.0, 5679.0, 5388.0, 5428.0, 5661.0, 5503.0, 5336.0, 5557.0, 5696.0, 5339.0, 5415.0, 5372.0, 5256.0, 5629.0, 5540.0, 5595.0, 5278.0, 5394.0, 5475.0, 5349.0, 5333.0, 5280.0, 5416.0, 5467.0, 5533.0, 5460.0, 5348.0, 5592.0, 5338.0, 5639.0, 5602.0, 5619.0, 5711.0, 5686.0, 5569.0, 5722.0, 5392.0, 5323.0, 5437.0, 5572.0, 5495.0, 5470.0, 5635.0, 5511.0, 5507.0 (number of hits: 7)
11	5510	9	1	333	1	5555.0, 5501.0, 5700.0, 5457.0, 5430.0, 5497.0, 5527.0, 5664.0, 5586.0, 5323.0, 5631.0, 5390.0, 5427.0, 5299.0, 5310.0, 5307.0, 5263.0, 5645.0, 5348.0, 5429.0, 5667.0, 5387.0, 5264.0, 5616.0, 5640.0, 5363.0, 5418.0, 5636.0, 5512.0, 5702.0, 5548.0, 5283.0, 5543.0, 5558.0, 5556.0, 5659.0, 5482.0, 5277.0, 5666.0, 5651.0, 5718.0, 5313.0, 5686.0, 5703.0, 5706.0, 5445.0, 5315.0, 5434.0, 5531.0, 5344.0, 5381.0, 5266.0, 5507.0, 5273.0, 5437.0, 5341.0, 5611.0, 5296.0, 5353.0, 5509.0, 5267.0, 5608.0, 5349.0, 5285.0, 5580.0, 5475.0, 5425.0, 5593.0, 5683.0, 5305.0, 5547.0, 5325.0, 5576.0, 5301.0, 5259.0, 5511.0, 5386.0, 5538.0, 5574.0, 5673.0, 5533.0, 5400.0, 5623.0, 5503.0, 5642.0, 5252.0, 5669.0, 5612.0, 5559.0, 5579.0, 5404.0, 5647.0, 5311.0, 5675.0, 5272.0, 5271.0, 5373.0, 5366.0, 5712.0, 5587.0 (number of hits: 8)

12	5510	9	1	333	1	5533.0, 5293.0, 5444.0, 5485.0, 5631.0, 5513.0, 5601.0, 5300.0, 5675.0, 5423.0, 5586.0, 5520.0, 5527.0, 5398.0, 5588.0, 5420.0, 5433.0, 5566.0, 5665.0, 5274.0, 5297.0, 5261.0, 5522.0, 5500.0, 5256.0, 5340.0, 5344.0, 5378.0, 5497.0, 5355.0, 5649.0, 5628.0, 5630.0, 5672.0, 5536.0, 5343.0, 5354.0, 5545.0, 5393.0, 5346.0, 5416.0, 5381.0, 5330.0, 5661.0, 5361.0, 5701.0, 5571.0, 5455.0, 5396.0, 5335.0, 5313.0, 5662.0, 5482.0, 5560.0, 5447.0, 5512.0, 5332.0, 5303.0, 5523.0, 5302.0, 5596.0, 5642.0, 5260.0, 5399.0, 5530.0, 5403.0, 5348.0, 5445.0, 5263.0, 5606.0, 5651.0, 5564.0, 5718.0, 5307.0, 5428.0, 5401.0, 5581.0, 5657.0, 5462.0, 5690.0, 5459.0, 5329.0, 5345.0, 5350.0, 5435.0, 5516.0, 5289.0, 5306.0, 5406.0, 5504.0, 5636.0, 5336.0, 5634.0, 5479.0, 5341.0, 5389.0, 5412.0, 5677.0, 5321.0, 5427.0 (number of hits: 10)
13	5510	9	1	333	1	5661.0, 5540.0, 5712.0, 5640.0, 5464.0, 5662.0, 5303.0, 5684.0, 5554.0, 5698.0, 5316.0, 5437.0, 5450.0, 5278.0, 5718.0, 5625.0, 5571.0, 5391.0, 5280.0, 5603.0, 5370.0, 5686.0, 5679.0, 5311.0, 5714.0, 5547.0, 5471.0, 5401.0, 5251.0, 5550.0, 5680.0, 5641.0, 5614.0, 5388.0, 5699.0, 5655.0, 5418.0, 5509.0, 5368.0, 5612.0, 5694.0, 5413.0, 5261.0, 5618.0, 5350.0, 5403.0, 5629.0, 5446.0, 5300.0, 5302.0, 5312.0, 5301.0, 5723.0, 5513.0, 5546.0, 5279.0, 5256.0, 5369.0, 5360.0, 5615.0, 5308.0, 5441.0, 5345.0, 5593.0, 5337.0, 5589.0, 5383.0, 5353.0, 5665.0, 5648.0, 5659.0, 5445.0, 5499.0, 5587.0, 5462.0, 5310.0, 5621.0, 5556.0, 5483.0, 5423.0, 5710.0, 5592.0, 5687.0, 5669.0, 5277.0, 5715.0, 5456.0, 5650.0, 5489.0, 5548.0, 5347.0, 5521.0, 5334.0, 5281.0, 5656.0, 5580.0, 5291.0, 5520.0, 5342.0, 5623.0 (number of hits: 5)
14	5510	9	1	333	1	5723.0, 5591.0, 5315.0, 5522.0, 5555.0, 5299.0, 5396.0, 5301.0, 5585.0, 5674.0, 5449.0, 5309.0, 5445.0, 5399.0, 5607.0, 5620.0, 5544.0, 5458.0, 5505.0, 5610.0, 5527.0, 5569.0, 5346.0, 5451.0, 5641.0, 5365.0, 5595.0, 5344.0, 5542.0, 5633.0, 5402.0, 5606.0, 5382.0, 5282.0, 5258.0, 5696.0, 5381.0, 5550.0, 5714.0, 5266.0, 5313.0, 5377.0, 5307.0, 5400.0, 5687.0, 5306.0, 5337.0, 5423.0, 5356.0, 5626.0, 5504.0, 5508.0, 5563.0, 5526.0, 5407.0, 5536.0, 5720.0, 5697.0, 5334.0, 5682.0, 5288.0, 5323.0, 5316.0, 5612.0, 5499.0, 5489.0, 5467.0, 5588.0, 5450.0, 5642.0, 5456.0, 5678.0, 5392.0, 5443.0, 5470.0, 5552.0, 5587.0, 5524.0, 5320.0, 5260.0, 5374.0, 5574.0, 5397.0, 5487.0, 5557.0, 5710.0, 5340.0, 5645.0, 5651.0, 5658.0,

						5690.0, 5355.0, 5262.0, 5503.0, 5506.0, 5486.0, 5698.0, 5566.0, 5632.0, 5700.0 (number of hits: 10)
15	5510	9	1	333	1	5386.0, 5528.0, 5634.0, 5722.0, 5585.0, 5555.0, 5641.0, 5610.0, 5608.0, 5451.0, 5401.0, 5557.0, 5617.0, 5696.0, 5332.0, 5530.0, 5718.0, 5652.0, 5358.0, 5561.0, 5334.0, 5350.0, 5601.0, 5461.0, 5636.0, 5595.0, 5412.0, 5475.0, 5603.0, 5469.0, 5687.0, 5713.0, 5633.0, 5359.0, 5592.0, 5515.0, 5627.0, 5418.0, 5309.0, 5271.0, 5379.0, 5714.0, 5396.0, 5513.0, 5723.0, 5276.0, 5699.0, 5478.0, 5260.0, 5546.0, 5287.0, 5637.0, 5432.0, 5518.0, 5682.0, 5605.0, 5486.0, 5711.0, 5521.0, 5439.0, 5565.0, 5476.0, 5493.0, 5615.0, 5589.0, 5680.0, 5643.0, 5391.0, 5646.0, 5343.0, 5353.0, 5443.0, 5501.0, 5445.0, 5600.0, 5525.0, 5262.0, 5446.0, 5375.0, 5495.0, 5666.0, 5307.0, 5351.0, 5344.0, 5291.0, 5581.0, 5664.0, 5390.0, 5667.0, 5331.0, 5254.0, 5406.0, 5438.0, 5270.0, 5381.0, 5504.0, 5315.0, 5527.0, 5283.0, 5302.0 (number of hits: 11)
16	5510	9	1	333	1	5426.0, 5254.0, 5702.0, 5457.0, 5281.0, 5428.0, 5333.0, 5368.0, 5280.0, 5630.0, 5506.0, 5496.0, 5294.0, 5710.0, 5558.0, 5552.0, 5686.0, 5625.0, 5643.0, 5432.0, 5458.0, 5626.0, 5528.0, 5352.0, 5274.0, 5592.0, 5396.0, 5640.0, 5373.0, 5637.0, 5530.0, 5581.0, 5258.0, 5641.0, 5713.0, 5339.0, 5604.0, 5315.0, 5493.0, 5381.0, 5262.0, 5309.0, 5722.0, 5324.0, 5709.0, 5589.0, 5431.0, 5424.0, 5517.0, 5621.0, 5369.0, 5668.0, 5620.0, 5316.0, 5652.0, 5642.0, 5672.0, 5631.0, 5723.0, 5539.0, 5425.0, 5389.0, 5448.0, 5365.0, 5351.0, 5269.0, 5468.0, 5655.0, 5330.0, 5624.0, 5441.0, 5361.0, 5311.0, 5605.0, 5714.0, 5550.0, 5499.0, 5717.0, 5519.0, 5508.0, 5276.0, 5357.0, 5379.0, 5600.0, 5461.0, 5385.0, 5439.0, 5684.0, 5509.0, 5380.0, 5455.0, 5437.0, 5616.0, 5479.0, 5444.0, 5494.0, 5308.0, 5618.0, 5271.0, 5644.0 (number of hits: 10)
17	5510	9	1	333	1	5285.0, 5696.0, 5369.0, 5355.0, 5377.0, 5662.0, 5649.0, 5585.0, 5334.0, 5287.0, 5387.0, 5566.0, 5517.0, 5600.0, 5508.0, 5520.0, 5408.0, 5514.0, 5709.0, 5557.0, 5691.0, 5545.0, 5270.0, 5722.0, 5320.0, 5602.0, 5682.0, 5406.0, 5664.0, 5673.0, 5639.0, 5281.0, 5525.0, 5329.0, 5699.0, 5466.0, 5481.0, 5429.0, 5549.0, 5677.0, 5426.0, 5704.0, 5524.0, 5445.0, 5401.0, 5372.0, 5679.0, 5588.0, 5624.0, 5683.0, 5444.0, 5357.0, 5582.0, 5321.0, 5715.0, 5717.0, 5698.0, 5577.0, 5428.0, 5380.0, 5298.0, 5499.0, 5447.0, 5596.0, 5578.0, 5627.0, 5294.0, 5464.0, 5344.0, 5665.0, 5671.0, 5459.0, 5381.0, 5291.0, 5483.0,

						5529.0, 5462.0, 5293.0, 5559.0, 5597.0, 5719.0, 5338.0, 5385.0, 5543.0, 5368.0, 5332.0, 5708.0, 5493.0, 5478.0, 5625.0, 5537.0, 5303.0, 5251.0, 5417.0, 5595.0, 5301.0, 5452.0, 5655.0, 5650.0, 5265.0 (number of hits: 9)
18	5510	9	1	333	0	
19	5510	9	1	333	1	5306.0, 5418.0, 5561.0, 5618.0, 5259.0, 5634.0, 5685.0, 5535.0, 5624.0, 5719.0, 5495.0, 5540.0, 5528.0, 5357.0, 5273.0, 5371.0, 5402.0, 5683.0, 5563.0, 5509.0, 5500.0, 5622.0, 5696.0, 5600.0, 5447.0, 5588.0, 5675.0, 5260.0, 5496.0, 5699.0, 5691.0, 5657.0, 5362.0, 5411.0, 5599.0, 5293.0, 5263.0, 5625.0, 5376.0, 5705.0, 5714.0, 5406.0, 5385.0, 5413.0, 5449.0, 5544.0, 5343.0, 5295.0, 5702.0, 5453.0, 5608.0, 5514.0, 5312.0, 5315.0, 5326.0, 5644.0, 5460.0, 5370.0, 5708.0, 5530.0, 5566.0, 5300.0, 5373.0, 5336.0, 5305.0, 5623.0, 5690.0, 5319.0, 5547.0, 5321.0, 5360.0, 5670.0, 5272.0, 5693.0, 5597.0, 5393.0, 5286.0, 5366.0, 5432.0, 5465.0, 5687.0, 5612.0, 5379.0, 5716.0, 5471.0, 5541.0, 5641.0, 5501.0, 5674.0, 5339.0, 5279.0, 5410.0, 5562.0, 5434.0, 5395.0, 5337.0, 5442.0, 5320.0, 5616.0, 5482.0 (number of hits: 7)
20	5510	9	1	333	1	5689.0, 5538.0, 5588.0, 5318.0, 5476.0, 5272.0, 5708.0, 5539.0, 5438.0, 5687.0, 5388.0, 5566.0, 5590.0, 5384.0, 5545.0, 5690.0, 5400.0, 5696.0, 5527.0, 5449.0, 5547.0, 5655.0, 5477.0, 5629.0, 5368.0, 5484.0, 5251.0, 5600.0, 5505.0, 5487.0, 5532.0, 5537.0, 5346.0, 5543.0, 5288.0, 5413.0, 5252.0, 5468.0, 5703.0, 5679.0, 5480.0, 5399.0, 5563.0, 5256.0, 5520.0, 5621.0, 5463.0, 5295.0, 5597.0, 5595.0, 5276.0, 5630.0, 5509.0, 5632.0, 5456.0, 5300.0, 5633.0, 5315.0, 5264.0, 5370.0, 5606.0, 5261.0, 5432.0, 5567.0, 5634.0, 5706.0, 5516.0, 5577.0, 5656.0, 5694.0, 5409.0, 5609.0, 5303.0, 5650.0, 5319.0, 5429.0, 5585.0, 5571.0, 5493.0, 5443.0, 5626.0, 5576.0, 5278.0, 5602.0, 5377.0, 5398.0, 5496.0, 5343.0, 5702.0, 5316.0, 5652.0, 5306.0, 5627.0, 5674.0, 5512.0, 5396.0, 5402.0, 5601.0, 5705.0, 5281.0 (number of hits: 8)
21	5510	9	1	333	1	5598.0, 5259.0, 5542.0, 5372.0, 5457.0, 5668.0, 5673.0, 5252.0, 5688.0, 5678.0, 5407.0, 5575.0, 5652.0, 5474.0, 5613.0, 5685.0, 5532.0, 5305.0, 5591.0, 5627.0, 5320.0, 5561.0, 5402.0, 5482.0, 5713.0, 5717.0, 5617.0, 5460.0, 5665.0, 5629.0, 5620.0, 5475.0, 5635.0, 5646.0, 5714.0, 5422.0, 5364.0, 5489.0, 5439.0, 5706.0, 5699.0, 5355.0, 5492.0, 5669.0, 5672.0, 5468.0, 5645.0, 5497.0, 5415.0, 5539.0,

						5506.0, 5315.0, 5379.0, 5467.0, 5384.0, 5505.0, 5557.0, 5611.0, 5631.0, 5663.0, 5700.0, 5318.0, 5480.0, 5643.0, 5723.0, 5592.0, 5692.0, 5331.0, 5260.0, 5371.0, 5377.0, 5323.0, 5433.0, 5275.0, 5573.0, 5550.0, 5565.0, 5449.0, 5504.0, 5496.0, 5274.0, 5715.0, 5585.0, 5456.0, 5266.0, 5465.0, 5494.0, 5544.0, 5359.0, 5352.0, 5328.0, 5295.0, 5519.0, 5367.0, 5470.0, 5253.0, 5272.0, 5263.0, 5310.0, 5459.0 (number of hits: 8)
22	5510	9	1	333	1	5608.0, 5606.0, 5571.0, 5321.0, 5487.0, 5467.0, 5307.0, 5583.0, 5442.0, 5535.0, 5302.0, 5316.0, 5323.0, 5392.0, 5536.0, 5438.0, 5398.0, 5507.0, 5713.0, 5594.0, 5331.0, 5426.0, 5547.0, 5296.0, 5707.0, 5593.0, 5379.0, 5406.0, 5671.0, 5490.0, 5410.0, 5531.0, 5436.0, 5611.0, 5582.0, 5567.0, 5292.0, 5512.0, 5377.0, 5723.0, 5280.0, 5694.0, 5617.0, 5642.0, 5563.0, 5428.0, 5554.0, 5284.0, 5265.0, 5574.0, 5251.0, 5544.0, 5659.0, 5679.0, 5525.0, 5378.0, 5496.0, 5384.0, 5494.0, 5266.0, 5560.0, 5683.0, 5527.0, 5463.0, 5646.0, 5724.0, 5291.0, 5328.0, 5502.0, 5289.0, 5516.0, 5686.0, 5327.0, 5337.0, 5631.0, 5668.0, 5722.0, 5542.0, 5518.0, 5448.0, 5471.0, 5389.0, 5477.0, 5352.0, 5305.0, 5720.0, 5297.0, 5702.0, 5311.0, 5488.0, 5658.0, 5372.0, 5602.0, 5532.0, 5575.0, 5576.0, 5354.0, 5425.0, 5411.0, 5460.0 (number of hits: 10)
23	5510	9	1	333	1	5625.0, 5285.0, 5722.0, 5256.0, 5674.0, 5295.0, 5704.0, 5303.0, 5449.0, 5642.0, 5339.0, 5332.0, 5393.0, 5315.0, 5646.0, 5349.0, 5440.0, 5276.0, 5501.0, 5353.0, 5255.0, 5394.0, 5307.0, 5510.0, 5588.0, 5609.0, 5723.0, 5401.0, 5673.0, 5271.0, 5422.0, 5405.0, 5548.0, 5475.0, 5342.0, 5529.0, 5398.0, 5601.0, 5390.0, 5533.0, 5494.0, 5715.0, 5534.0, 5397.0, 5544.0, 5641.0, 5537.0, 5577.0, 5717.0, 5706.0, 5467.0, 5293.0, 5617.0, 5695.0, 5294.0, 5261.0, 5662.0, 5490.0, 5559.0, 5338.0, 5705.0, 5365.0, 5526.0, 5553.0, 5631.0, 5622.0, 5639.0, 5270.0, 5479.0, 5590.0, 5356.0, 5284.0, 5446.0, 5420.0, 5502.0, 5671.0, 5584.0, 5595.0, 5712.0, 5574.0, 5527.0, 5664.0, 5710.0, 5369.0, 5262.0, 5482.0, 5634.0, 5657.0, 5523.0, 5679.0, 5476.0, 5264.0, 5549.0, 5532.0, 5286.0, 5387.0, 5340.0, 5410.0, 5604.0, 5637.0 (number of hits: 9)
24	5510	9	1	333	1	5649.0, 5316.0, 5284.0, 5636.0, 5563.0, 5568.0, 5314.0, 5602.0, 5658.0, 5480.0, 5627.0, 5720.0, 5290.0, 5426.0, 5358.0, 5588.0, 5716.0, 5279.0, 5553.0, 5701.0, 5517.0, 5683.0, 5694.0, 5266.0, 5442.0, 5394.0, 5562.0, 5264.0, 5354.0, 5547.0,

						5613.0, 5454.0, 5321.0, 5708.0, 5506.0, 5520.0, 5330.0, 5707.0, 5488.0, 5721.0, 5591.0, 5493.0, 5548.0, 5466.0, 5440.0, 5327.0, 5524.0, 5656.0, 5427.0, 5420.0, 5431.0, 5421.0, 5604.0, 5614.0, 5344.0, 5364.0, 5487.0, 5415.0, 5439.0, 5492.0, 5567.0, 5251.0, 5455.0, 5681.0, 5625.0, 5472.0, 5356.0, 5513.0, 5306.0, 5534.0, 5628.0, 5660.0, 5401.0, 5615.0, 5580.0, 5647.0, 5268.0, 5365.0, 5273.0, 5664.0, 5345.0, 5655.0, 5325.0, 5592.0, 5503.0, 5334.0, 5450.0, 5620.0, 5545.0, 5644.0, 5704.0, 5422.0, 5601.0, 5340.0, 5511.0, 5582.0, 5410.0, 5270.0, 5723.0, 5465.0 (number of hits: 9)
25	5510	9	1	333	1	5302.0, 5650.0, 5494.0, 5637.0, 5276.0, 5589.0, 5330.0, 5568.0, 5372.0, 5600.0, 5465.0, 5567.0, 5426.0, 5480.0, 5584.0, 5354.0, 5337.0, 5681.0, 5619.0, 5405.0, 5682.0, 5446.0, 5540.0, 5454.0, 5344.0, 5625.0, 5389.0, 5653.0, 5301.0, 5531.0, 5546.0, 5566.0, 5667.0, 5398.0, 5345.0, 5604.0, 5618.0, 5402.0, 5308.0, 5576.0, 5273.0, 5668.0, 5317.0, 5527.0, 5515.0, 5697.0, 5641.0, 5598.0, 5374.0, 5554.0, 5478.0, 5591.0, 5651.0, 5485.0, 5265.0, 5488.0, 5479.0, 5320.0, 5316.0, 5360.0, 5544.0, 5472.0, 5436.0, 5525.0, 5356.0, 5658.0, 5563.0, 5504.0, 5469.0, 5335.0, 5443.0, 5410.0, 5419.0, 5393.0, 5407.0, 5673.0, 5523.0, 5328.0, 5396.0, 5258.0, 5594.0, 5680.0, 5300.0, 5314.0, 5559.0, 5708.0, 5484.0, 5712.0, 5458.0, 5460.0, 5417.0, 5412.0, 5322.0, 5519.0, 5560.0, 5429.0, 5416.0, 5403.0, 5295.0, 5621.0 (number of hits: 7)
26	5510	9	1	333	1	5257.0, 5713.0, 5327.0, 5563.0, 5444.0, 5639.0, 5477.0, 5466.0, 5402.0, 5536.0, 5555.0, 5647.0, 5506.0, 5541.0, 5605.0, 5380.0, 5622.0, 5514.0, 5720.0, 5387.0, 5706.0, 5476.0, 5353.0, 5389.0, 5414.0, 5590.0, 5668.0, 5694.0, 5370.0, 5458.0, 5568.0, 5580.0, 5352.0, 5290.0, 5594.0, 5569.0, 5657.0, 5438.0, 5722.0, 5680.0, 5408.0, 5309.0, 5565.0, 5401.0, 5593.0, 5552.0, 5592.0, 5259.0, 5631.0, 5255.0, 5721.0, 5332.0, 5418.0, 5288.0, 5704.0, 5420.0, 5358.0, 5556.0, 5624.0, 5261.0, 5267.0, 5276.0, 5666.0, 5499.0, 5407.0, 5651.0, 5386.0, 5562.0, 5393.0, 5366.0, 5340.0, 5470.0, 5561.0, 5518.0, 5595.0, 5534.0, 5526.0, 5279.0, 5604.0, 5685.0, 5251.0, 5333.0, 5265.0, 5653.0, 5478.0, 5603.0, 5384.0, 5606.0, 5490.0, 5280.0, 5641.0, 5271.0, 5675.0, 5394.0, 5302.0, 5323.0, 5543.0, 5708.0, 5548.0, 5429.0 (number of hits: 6)
27	5510	9	1	333	1	5537.0, 5414.0, 5544.0, 5574.0, 5708.0, 5566.0, 5527.0, 5686.0, 5506.0, 5619.0,

						5348.0, 5475.0, 5567.0, 5333.0, 5353.0, 5625.0, 5380.0, 5257.0, 5259.0, 5258.0, 5250.0, 5444.0, 5291.0, 5324.0, 5452.0, 5476.0, 5390.0, 5691.0, 5545.0, 5560.0, 5263.0, 5580.0, 5339.0, 5368.0, 5518.0, 5267.0, 5533.0, 5315.0, 5557.0, 5393.0, 5413.0, 5372.0, 5640.0, 5528.0, 5657.0, 5535.0, 5682.0, 5370.0, 5517.0, 5651.0, 5541.0, 5313.0, 5260.0, 5480.0, 5423.0, 5692.0, 5525.0, 5338.0, 5620.0, 5615.0, 5467.0, 5417.0, 5290.0, 5469.0, 5568.0, 5529.0, 5660.0, 5573.0, 5662.0, 5322.0, 5421.0, 5335.0, 5415.0, 5425.0, 5310.0, 5280.0, 5378.0, 5455.0, 5588.0, 5633.0, 5289.0, 5614.0, 5481.0, 5632.0, 5569.0, 5343.0, 5336.0, 5356.0, 5304.0, 5701.0, 5330.0, 5410.0, 5283.0, 5550.0, 5555.0, 5579.0, 5251.0, 5308.0, 5269.0, 5276.0 (number of hits: 7)
28	5510	9	1	333	1	5609.0, 5539.0, 5345.0, 5386.0, 5646.0, 5562.0, 5714.0, 5704.0, 5463.0, 5456.0, 5531.0, 5608.0, 5270.0, 5364.0, 5390.0, 5257.0, 5693.0, 5271.0, 5370.0, 5448.0, 5651.0, 5723.0, 5534.0, 5483.0, 5412.0, 5389.0, 5630.0, 5636.0, 5267.0, 5664.0, 5670.0, 5530.0, 5263.0, 5600.0, 5452.0, 5485.0, 5375.0, 5290.0, 5397.0, 5431.0, 5380.0, 5559.0, 5324.0, 5455.0, 5477.0, 5720.0, 5661.0, 5579.0, 5308.0, 5343.0, 5393.0, 5294.0, 5333.0, 5360.0, 5498.0, 5606.0, 5643.0, 5582.0, 5513.0, 5690.0, 5362.0, 5538.0, 5351.0, 5635.0, 5259.0, 5373.0, 5637.0, 5593.0, 5507.0, 5273.0, 5610.0, 5399.0, 5366.0, 5692.0, 5518.0, 5698.0, 5400.0, 5422.0, 5339.0, 5494.0, 5352.0, 5265.0, 5368.0, 5392.0, 5533.0, 5616.0, 5350.0, 5653.0, 5597.0, 5618.0, 5388.0, 5544.0, 5521.0, 5684.0, 5509.0, 5415.0, 5603.0, 5561.0, 5335.0, 5673.0 (number of hits: 7)
29	5510	9	1	333	1	5319.0, 5549.0, 5496.0, 5657.0, 5701.0, 5425.0, 5279.0, 5594.0, 5299.0, 5432.0, 5364.0, 5656.0, 5398.0, 5717.0, 5678.0, 5440.0, 5637.0, 5385.0, 5467.0, 5712.0, 5559.0, 5623.0, 5707.0, 5371.0, 5504.0, 5255.0, 5628.0, 5414.0, 5441.0, 5481.0, 5599.0, 5556.0, 5602.0, 5430.0, 5433.0, 5453.0, 5494.0, 5298.0, 5280.0, 5632.0, 5516.0, 5303.0, 5458.0, 5305.0, 5428.0, 5315.0, 5328.0, 5541.0, 5487.0, 5660.0, 5495.0, 5461.0, 5532.0, 5420.0, 5530.0, 5648.0, 5557.0, 5466.0, 5505.0, 5486.0, 5507.0, 5322.0, 5631.0, 5423.0, 5415.0, 5671.0, 5571.0, 5283.0, 5294.0, 5714.0, 5614.0, 5448.0, 5358.0, 5654.0, 5312.0, 5624.0, 5356.0, 5408.0, 5386.0, 5455.0, 5529.0, 5613.0, 5378.0, 5547.0, 5347.0, 5537.0, 5649.0, 5578.0, 5442.0, 5444.0, 5350.0, 5697.0, 5413.0, 5511.0, 5688.0, 5665.0, 5562.0, 5647.0, 5710.0, 5309.0

						(number of hits: 9)
30	5510	9	1	333	1	5359.0, 5440.0, 5581.0, 5465.0, 5472.0, 5479.0, 5292.0, 5415.0, 5272.0, 5384.0, 5342.0, 5619.0, 5548.0, 5323.0, 5346.0, 5357.0, 5594.0, 5364.0, 5299.0, 5287.0, 5690.0, 5306.0, 5562.0, 5607.0, 5660.0, 5681.0, 5381.0, 5355.0, 5703.0, 5677.0, 5521.0, 5486.0, 5621.0, 5564.0, 5478.0, 5317.0, 5714.0, 5411.0, 5598.0, 5320.0, 5424.0, 5675.0, 5713.0, 5325.0, 5477.0, 5401.0, 5328.0, 5338.0, 5451.0, 5531.0, 5334.0, 5519.0, 5282.0, 5437.0, 5256.0, 5297.0, 5628.0, 5683.0, 5293.0, 5389.0, 5251.0, 5398.0, 5589.0, 5439.0, 5501.0, 5563.0, 5373.0, 5315.0, 5659.0, 5336.0, 5286.0, 5252.0, 5711.0, 5506.0, 5455.0, 5508.0, 5673.0, 5546.0, 5691.0, 5460.0, 5605.0, 5699.0, 5602.0, 5294.0, 5624.0, 5534.0, 5281.0, 5265.0, 5382.0, 5543.0, 5622.0, 5271.0, 5656.0, 5509.0, 5705.0, 5309.0, 5260.0, 5296.0, 5556.0, 5512.0 (number of hits: 7)

5530MHz

80MHz Bandwidth

Radar SignalType	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A	15	100 %	60%	Pass
Type 1B	15	93.3%		
Type 2	30	96.7 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	98.3 %	80%	Pass
Type 5	30	86.6%	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	99	1	538	1
2	5530	70	1	758	1
3	5530	57	1	938	1
4	5530	95	1	558	1
5	5530	78	1	678	1
6	5530	72	1	738	1
7	5530	68	1	778	1
8	5530	63	1	838	1
9	5530	59	1	898	1
10	5530	58	1	918	1
11	5530	65	1	818	1
12	5530	86	1	618	1
13	5530	76	1	698	1
14	5530	83	1	638	1
15	5530	18	1	3066	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	34	1	1568	1
2	5530	24	1	2201	1
3	5530	41	1	1307	0
4	5530	30	1	1797	1
5	5530	39	1	1384	1
6	5530	33	1	1637	1
7	5530	43	1	1242	1
8	5530	40	1	1350	1
9	5530	32	1	1671	1
10	5530	27	1	1967	1
11	5530	41	1	1298	1
12	5530	30	1	1816	1
13	5530	21	1	2587	1
14	5530	32	1	1687	1
15	5530	19	1	2911	1
16	5530	34	1	1568	1
Detection Percentage: 93.3 % (>60%)					

Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	28	2.3	226	1
2	5530	24	2.5	199	1
3	5530	26	3.4	168	1
4	5530	25	1.7	173	1
5	5530	25	3.9	177	1
6	5530	29	4.2	175	1
7	5530	23	3.1	198	1
8	5530	23	1.9	181	1
9	5530	29	4.5	150	1
10	5530	29	3.1	152	1
11	5530	26	4.1	150	1
12	5530	24	4.3	204	1
13	5530	26	4.8	187	1
14	5530	26	4	230	1
15	5530	25	4.2	215	1
16	5530	26	2.7	221	1
17	5530	25	2.8	203	1
18	5530	24	2.8	154	1
19	5530	29	4.7	150	1
20	5530	28	3.2	211	1
21	5530	23	2.8	221	1
22	5530	24	3.4	220	1
23	5530	29	1.4	199	1
24	5530	27	3.8	198	1
25	5530	28	3	219	1
26	5530	27	3.6	207	1
27	5530	24	2	157	1
28	5530	26	2.5	164	1
29	5530	24	4.4	161	0
30	5530	26	3.2	163	1
Detection Percentage: 96.7 % (>60%)					

Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	17	8	290	1
2	5530	17	6.9	468	1
3	5530	18	7.9	282	1
4	5530	17	6.6	395	1
5	5530	17	9.1	283	1
6	5530	16	6.3	489	1
7	5530	16	7.1	224	1
8	5530	16	9.3	431	1
9	5530	18	10	498	1
10	5530	17	6.6	433	1
11	5530	18	6.7	270	1
12	5530	18	9.1	370	1
13	5530	18	6.8	368	1
14	5530	18	6.6	381	1
15	5530	17	9.3	209	1
16	5530	18	8.5	300	1
17	5530	16	9.5	390	1
18	5530	17	7	278	1
19	5530	18	8.6	492	1
20	5530	18	6.2	383	1
21	5530	17	8.8	389	1
22	5530	16	6	230	1
23	5530	16	6.5	423	1
24	5530	17	9.7	401	1
25	5530	17	9.4	476	1
26	5530	16	6.7	367	1
27	5530	17	6.6	380	1
28	5530	17	6	226	1
29	5530	16	9.8	248	1
30	5530	17	8.4	223	1
Detection Percentage: 100 % (>60%)					

Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	15	18.6	261	1
2	5530	15	16.2	292	1
3	5530	14	18.4	332	1
4	5530	15	11.5	247	1
5	5530	15	20	439	1
6	5530	15	19.4	245	1
7	5530	14	11.3	444	1
8	5530	12	11.3	384	1
9	5530	15	12.1	431	1
10	5530	13	12.6	469	1
11	5530	13	16.9	477	1
12	5530	15	11.4	272	1
13	5530	14	12.8	484	1
14	5530	16	13.8	217	1
15	5530	13	18.8	470	1
16	5530	15	18.3	268	1
17	5530	15	13	279	1
18	5530	13	14.5	308	1
19	5530	16	16.8	361	1
20	5530	14	15.7	264	1
21	5530	15	14.9	455	1
22	5530	12	13.1	482	1
23	5530	15	13	318	1
24	5530	12	12.3	253	1
25	5530	13	14.5	386	1
26	5530	14	12	344	1
27	5530	14	14.1	421	1
28	5530	16	12	431	1
29	5530	14	11.2	263	1
30	5530	12	11.5	488	1
Detection Percentage: 100 % (>60%)					

Radar Type 5 Statistical Performance

Statistics 1 (ChirpCenter Frequency: 5530MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	81.3	7			527.35	0
2	11	72.8	7	1463	1077	410.581	
3	11	82.6	7	1109		197.462	
4	11	57.3	7	1906		25.713	
5	11	84.7	7	1201		670.664	
6	11	69.6	7	1612		825.335	
7	11	76.3	7			15.315	
8	11	82.7	7	1481	923	1044.716	
9	11	92.8	7	1335		361.917	
10	11	87.7	7	1760		382.918	
11	11	52.6	7			667.909	

Statistics 2 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	59.6	6	1729		30.275	1
2	14	62	6	1754	1213	681.867	
3	14	90	6	1449		611.244	
4	14	97.4	6	1798		368.281	
5	14	62.2	6	1175	1488	194.439	
6	14	78.6	6	974		488.066	
7	14	53	6	1677		795.833	
8	14	86.3	6			16.9	
9	14	74	6			834.897	
10	14	86.7	6			305.684	
11	14	54.7	6	1369		595.481	
12	14	50.4	6	1559		374.529	
13	14	71.2	6	1572	1866	599.686	
14	14	93.8	6			814.343	

Statistics 3 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	14	73.6	6	1620		256.855	1
2	14	55.5	6	1059	1925	696.607	
3	14	95.3	6	917		655.734	
4	14	93.5	6	1671	1021	745.251	
5	14	81	6			393.429	
6	14	82.5	6	1410	1147	480.526	
7	14	88.9	6			309.953	
8	14	63.1	6	1203		399.98	
9	14	80.3	6	1431		20.887	
10	14	51.2	6	1472	1417	33.534	
11	14	85.1	6			411.591	
12	14	67.1	6	1263		437.539	
13	14	88.5	6	1365	1381	517.086	
14	14	65.4	6			293.943	

Statistics 4 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	70.4	5	1883	1336	606.971	1
2	19	67	5	1140		350.193	
3	19	72.2	5	1631		380.002	
4	19	88.2	5	1700		101.333	
5	19	81	5	1259		82.124	
6	19	79.8	5	1482	1645	95.215	
7	19	83.1	5	1111		256.166	
8	19	88.2	5	1582		134.167	
9	19	76.5	5	1743		466.728	
10	19	99.8	5	1517		575.759	
11	19	81.9	5	1227		385.341	
12	19	68.3	5			264.502	
13	19	68.5	5			344.443	
14	19	55.7	5	1659	1130	463.364	
15	19	83.1	5	1461		424.825	
16	19	72.1	5	1728	1346	278.916	
17	19	93	5	1529	998	357.437	
18	19	74.8	5	1630		233.158	
19	19	90.5	5	1402		201.979	

Statistics 5 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	90.3	5	1413	1693	579.697	1
2	13	95.5	5	1590	1902	903.023	
3	13	91	5	911		226.566	
4	13	70.1	5	1221		502.159	
5	13	52.2	5	1314		19.102	
6	13	69.8	5	1298		580.225	
7	13	91.4	5			512.258	
8	13	59.1	5			463.512	
9	13	91.7	5	1821		229.285	
10	13	90.4	5			64.668	
11	13	63.8	5	1576		248.421	
12	13	88.2	5	1439		850.754	
13	13	82.6	5	1523	1220	607.777	

Statistics 6 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	62.5	5	1768		91.276	1
2	17	57.9	5	1883		586.568	
3	17	78	5	1522		646.585	
4	17	97.6	5	1834		649.903	
5	17	90	5	1240	1767	674.221	
6	17	96.2	5	1355		328.568	
7	17	57.3	5	1189		469.816	
8	17	77.2	5	1456		524.814	
9	17	69.3	5	1340	930	689.371	
10	17	58.3	5	1239	1914	85.149	
11	17	94.6	5			526.186	
12	17	55.6	5			648.374	
13	17	70.7	5	1925	1147	653.982	
14	17	54.4	5	1175	1186	87.519	
15	17	56.6	5	1688	1323	321.747	
16	17	86.2	5	1837		269.265	
17	17	80.9	5	1544	931	295.782	

Statistics 7 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	65.7	5	1707	1246	643.615	1
2	12	76.8	5	1617	1418	609.72	
3	12	64.8	5	968	1438	3.46	
4	12	91.2	5			353.68	
5	12	85.2	5	1558		142.1	
6	12	70.5	5	1544	1167	516.34	
7	12	51.1	5			458.27	
8	12	96	5	1727		730.37	
9	12	83.2	5	1028	1492	699.95	
10	12	50.9	5			712.04	
11	12	68.8	5	1294		243.6	
12	12	92.4	5	1532		474.3	

Statistics 8 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.5	6	1402	1262	660.483	1
2	15	52	6	1212		309.68	
3	15	61.1	6	1227		43.31	
4	15	88.8	6			770.69	
5	15	70.4	6			430.91	
6	15	60.9	6			727.54	
7	15	89	6	1719	1608	99	
8	15	50.5	6	1458	1547	180.85	
9	15	93	6	1608	1027	316.24	
10	15	53.9	6	1117		684.43	
11	15	69.9	6	1593	1917	134.61	
12	15	94.1	6	1296	1157	68.42	
13	15	51.4	6	1808		776.7	
14	15	88.8	6	1530		105.6	
15	15	56.2	6	1298		407	

Statistics 9 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	17	55.1	6	1932		447.874	1
2	17	76.8	6	1820	1599	128.997	
3	17	80.4	6	1538		455.845	
4	17	64.5	6	1691	1250	318.453	
5	17	64.7	6	998	1144	601.861	
6	17	79	6	1063		621.738	
7	17	60	6			529.346	
8	17	83.7	6	1528		681.324	
9	17	92.4	6			452.121	
10	17	73.5	6	1185	1509	590.469	
11	17	92.6	6			420.516	
12	17	69.5	6	1298		21.834	
13	17	80.2	6	1334	1576	315.922	
14	17	51.7	6	1168		275.269	
15	17	62.4	6	1910	1194	56.517	
16	17	88.6	6	1903		29.465	
17	17	74.1	6	1662		370.182	

Statistics 10 (ChirpCenter Frequency: 5530 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	99.6	5	1178	1748	236.527	1
2	15	64.4	5	988	1046	596.61	
3	15	54.2	5	1195		780.78	
4	15	83.1	5			483.01	
5	15	89.2	5			11.72	
6	15	80.3	5	1565		266.47	
7	15	63	5	1791		51	
8	15	71.3	5			270.13	
9	15	76.2	5	1323		233.09	
10	15	94.3	5	1160	1621	296.79	
11	15	87.7	5	1626	1864	400.54	
12	15	88.1	5			317.2	
13	15	56.9	5	1078		543.8	
14	15	53.6	5			90.4	
15	15	65.4	5	1803		762.5	

Statistics 11 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	51.7	5	1861	1272	161.026	1
2	20	60.1	5	1494	1053	259.958	
3	20	71.8	5	1209	1810	486.18	
4	20	60.7	5	1762	1522	513.68	
5	20	87.2	5	916	926	99.99	
6	20	85.2	5	951		565.23	
7	20	97.8	5	1402		209.79	
8	20	60.4	5			188.07	
9	20	93.5	5	1484		307.82	
10	20	89.4	5			226.68	
11	20	72	5	1073	1044	405.28	
12	20	50.6	5	981		212.33	
13	20	59.6	5	1542		252.04	
14	20	81.8	5	1151		87.94	
15	20	79.1	5			254.21	
16	20	83.8	5	1565	1240	86.77	
17	20	55.3	5	1470		587.4	
18	20	92.9	5			265.3	
19	20	52.6	5	1450		64.7	
20	20	79.8	5	1240	1349	24.7	

Statistics 12 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	20	80.9	5	1657		562.762	0
2	20	59.1	5	1489		487.36	
3	20	80.5	5	1208	1121	197.51	
4	20	92.5	5	1518	1620	580.4	
5	20	61.7	5	1018		159.72	
6	20	78.4	5	1100	1656	234.55	
7	20	88.5	5	1092		129.34	
8	20	77.9	5	1797		172.22	
9	20	79.3	5	1042		474.53	
10	20	96.3	5			58.61	
11	20	74.8	5	1618	1155	37.18	
12	20	58.7	5			560.52	
13	20	59.6	5	1484		542.48	
14	20	60.2	5	1617		276.43	
15	20	50.5	5			388.61	
16	20	88.9	5			108.44	
17	20	87.7	5	1715		95.06	
18	20	68	5			52.5	
19	20	52.3	5			367	
20	20	57.8	5	1714		483.2	

Statistics 13 (ChirpCenter Frequency: 5494.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	83.9	7			306.702	1
2	18	82.6	7			130.713	
3	18	84	7	1576		269.837	
4	18	64.4	7	1409	1382	245.7	
5	18	61.8	7			72.973	
6	18	65.2	7	1911	1175	235.297	
7	18	90.8	7	1509		158.85	
8	18	82.1	7	1643	1764	601.853	
9	18	83.1	7			75.617	
10	18	81.6	7			168.4	
11	18	68.1	7	1351		466.183	
12	18	79.5	7			347.027	
13	18	84.3	7	1039		612.24	
14	18	88.8	7			166.273	
15	18	73.8	7	1760	1756	659.807	
16	18	86.2	7	1903		592.3	
17	18	79.3	7			533.033	
18	18	57.6	7	1905		444.767	

Statistics 14 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	69.8	5	1469		507.244	1
2	15	96.7	5	1713		145.971	
3	15	54.8	5	1583	1924	343.02	
4	15	59.2	5	947	1847	226.34	
5	15	76.3	5	1119	1584	365.73	
6	15	96.2	5	1292	1298	656.28	
7	15	99.5	5	1052	1650	667.67	
8	15	82.5	5	1625	1555	136.26	
9	15	85.9	5			786.75	
10	15	78.7	5	1616		536.22	
11	15	73.3	5			456.62	
12	15	73.2	5	1851		22.87	
13	15	86.9	5	920		570.1	
14	15	70.3	5	1843		338	
15	15	55.3	5	1826		401.6	

Statistics 15 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	74.6	5	1375		355.44	0
2	19	91.7	5	1603		229.659	
3	19	69.5	5	1767	1426	615.242	
4	19	74.7	5	1757		286.993	
5	19	55.4	5	1197		177.854	
6	19	67.1	5			235.825	
7	19	68.9	5	1473	1181	518.836	
8	19	53.7	5			95.017	
9	19	82.4	5	1470	1704	384.978	
10	19	96.4	5	1594	981	132.059	
11	19	93.7	5	1260	1250	223.621	
12	19	82.4	5	927		77.282	
13	19	73.8	5	1164	1791	111.973	
14	19	98	5	1680		565.424	
15	19	52.2	5	1700		177.235	
16	19	60.8	5	1397		243.286	
17	19	61.6	5	1768		532.737	
18	19	96.8	5	1345		144.258	
19	19	64	5	984	959	40.379	

Statistics 16 (ChirpCenter Frequency: 5494.4 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	13	97.3	6	1334		256.425	1
2	13	73.1	6	1805		499.423	
3	13	70.1	6			297.286	
4	13	78.9	6			57.059	
5	13	62	6	1752	1599	186.182	
6	13	98.5	6	1144	1431	589.225	
7	13	84	6	1445	1454	800.838	
8	13	63.5	6	1536	1115	302.432	
9	13	71.3	6	1637		913.975	
10	13	90.5	6	1361		132.078	
11	13	73	6	1194	1613	519.651	
12	13	83.9	6	1277		56.654	
13	13	71.3	6	1596		778.577	

Statistics 17 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	61	5			297.054	1
2	18	83.7	5	1893		441.633	
3	18	60.4	5	1433		447.077	
4	18	88.9	5	1571		191.02	
5	18	51.8	5	1092		70.923	
6	18	83.5	5			473.297	
7	18	60.9	5	1390		94.95	
8	18	57.3	5	1243		88.843	
9	18	93.3	5	1523		219.407	
10	18	83.5	5	1629	1022	112.55	
11	18	85.9	5			583.103	
12	18	53.9	5	1488		536.507	
13	18	93.9	5			177.87	
14	18	70.5	5			433.163	
15	18	72.3	5	1334		374.307	
16	18	91.7	5			478.5	
17	18	88.6	5	1076	1883	633.333	
18	18	68.1	5	1168	1240	434.967	

Statistics 18 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	61	5			297.054	1
2	18	83.7	5	1893		441.633	
3	18	60.4	5	1433		447.077	
4	18	88.9	5	1571		191.02	
5	18	51.8	5	1092		70.923	
6	18	83.5	5			473.297	
7	18	60.9	5	1390		94.95	
8	18	57.3	5	1243		88.843	
9	18	93.3	5	1523		219.407	
10	18	83.5	5	1629	1022	112.55	

Statistics 19 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	54.4	5			459.028	0
2	19	94.1	5			108.929	
3	19	75.7	5	1648		426.402	
4	19	68.4	5	1024	1824	576.153	
5	19	83	5	1113	1521	503.334	
6	19	60.2	5	1918	1074	592.855	
7	19	54.9	5	1705		30.716	
8	19	85.4	5	1336		57.297	
9	19	99.3	5			253.958	
10	19	97.3	5	1293	1629	353.369	
11	19	82.5	5	1367		520.181	
12	19	55.7	5	1496		260.852	
13	19	65.5	5	1620	1188	64.143	
14	19	61.9	5	1730		198.284	
15	19	92.7	5	1776	1859	305.215	
16	19	78.9	5	1166	1029	353.016	
17	19	86.4	5	1007	1497	411.637	
18	19	80.8	5	1537		386.758	
19	19	86.9	5	1090		512.579	

Statistics 20 (ChirpCenter Frequency: 5494 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	11	84.4	5	1730		177.565	1
2	11	75.3	5	1354		140.831	
3	11	94.7	5	1024		241.902	
4	11	51.9	5			199.483	
5	11	80.6	5	974		536.604	
6	11	60.8	5			66.335	
7	11	75	5			810.375	
8	11	74.4	5	1422	1633	944.706	
9	11	92.9	5	1708		1026.727	
10	11	66.9	5	944	1893	476.418	
11	11	79.9	5	1125		578.209	

Statistics 21 (ChirpCenter Frequency: 5565.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	97.3	6			458.123	1
2	18	61.1	6	1217		17.92	
3	18	80.6	6	1774		390.567	
4	18	64.7	6	1321	1827	402.03	
5	18	94.4	6	1688		102.873	
6	18	91.2	6	1247		20.697	
7	18	68.9	6	1102		524.29	
8	18	74.6	6	1609		84.373	
9	18	74.7	6	1227	1531	206.127	
10	18	82.6	6	1525		285.98	
11	18	81.3	6	1314		105.063	
12	18	66.6	6	1577		118.627	
13	18	86.5	6	1167	1406	422.32	
14	18	62.8	6	1919		4.333	
15	18	82.2	6	1127		150.757	
16	18	79.4	6	1452		385.7	
17	18	91.7	6			160.033	
18	18	92.5	6	1497	1571	418.467	

Statistics 22 (ChirpCenter Frequency: 5565.2 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	12	73.2	7	1332	1061	119.741	1
2	12	78.4	7	1401		592.27	
3	12	93.8	7			907.17	
4	12	80.5	7			294.54	
5	12	82.4	7	1415		277.74	
6	12	90.7	7	1899	1644	716.23	
7	12	56.9	7			304.14	
8	12	73.6	7	1191		372.72	
9	12	62.4	7			518.42	
10	12	98.7	7	1175	1306	453.67	
11	12	77.4	7	1266	1636	913.3	
12	12	82.7	7	1703		180.9	

Statistics 23(ChirpCenter Frequency: 5565.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	66.6	6	1520	1572	25.653	1
2	15	78.3	6	1852		697.36	
3	15	75.2	6	1365	1829	123.48	
4	15	69	6	1302		262.33	
5	15	69.1	6			307.33	
6	15	83.7	6	1750	1075	661.38	
7	15	59.5	6	998		80.48	
8	15	88	6			700.09	
9	15	93.3	6			599.81	
10	15	51.6	6	1814	1223	239.02	
11	15	87.6	6	1745	1646	273.36	
12	15	50.2	6	1043		631.01	
13	15	76.5	6			622.9	
14	15	95.3	6	1815	1679	192.7	
15	15	53.3	6	1621		214.9	

Statistics 24(ChirpCenter Frequency: 5566 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	19	90.9	5	1357	1274	242.421	1
2	19	55.5	5			478.681	
3	19	56	5			287.442	
4	19	66.3	5			117.423	
5	19	76.5	5			509.794	
6	19	68.1	5	1134	1478	496.275	
7	19	67.3	5	1484		345.666	
8	19	80	5			416.117	
9	19	77.1	5	1402		475.138	
10	19	71	5			49.539	
11	19	73	5	1402	1659	118.371	
12	19	53	5			296.112	
13	19	53.3	5	1158	1319	244.913	
14	19	82.3	5	1269	1598	279.014	
15	19	80.1	5	1803		125.335	
16	19	97.6	5	1496	1099	369.756	
17	19	80.2	5	1030	1036	393.837	
18	19	91.6	5	1290		53.358	
19	19	59.4	5	1453	1496	553.879	

Statistics 25(ChirpCenter Frequency: 5566 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	62.3	5			513.765	0
2	16	66.7	5	1005	1547	395.91	
3	16	93.7	5	1904		46.75	
4	16	66.1	5	1828		587.25	
5	16	81.7	5	1178		259.23	
6	16	96.5	5			636.66	
7	16	68	5	1368		295.39	
8	16	72	5			662.29	
9	16	89.7	5			347.87	
10	16	53.7	5			118.81	
11	16	57.2	5	1477	1625	640.78	
12	16	75.1	5	1712		637.89	
13	16	72.3	5	969		656.01	
14	16	61.7	5	1454	1731	133.31	
15	16	78.8	5	1501		349.9	
16	16	62.6	5	1104		222.8	

Statistics 26 (ChirpCenter Frequency: 5566 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	53.5	5	1864		361.909	1
2	18	90.3	5	1884	1635	94.562	
3	18	90.8	5	1799	1234	477.417	
4	18	67.2	5	1420	1883	179.35	
5	18	68.6	5			129.343	
6	18	57.8	5	1446		21.577	
7	18	61.9	5	1812		591.39	
8	18	53.5	5	1602		363.313	
9	18	71.1	5	1850	1730	172.547	
10	18	86.7	5	1255	1714	97.23	
11	18	87.4	5	1813		129.583	
12	18	65.9	5	1486		313.197	
13	18	94.8	5	1327		46.11	
14	18	74.4	5	1728		601.613	
15	18	76.3	5	1427		68.447	
16	18	75.7	5	1545	1384	31.1	
17	18	68.3	5	1187		261.133	
18	18	88.4	5	1165		543.867	

Statistics 27 (ChirpCenter Frequency: 5566 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	94.8	5			71.018	1
2	15	92.4	5			374.62	
3	15	82.4	5	1310	923	172.44	
4	15	59.9	5	1729		756.92	
5	15	69.7	5			188.28	
6	15	51.8	5	1908	1336	581.96	
7	15	82.2	5	1531	1219	63.38	
8	15	92.4	5	1182		315.55	
9	15	67.3	5	1671		412.58	
10	15	65.9	5	1497		528.25	
11	15	86.9	5	1823		394.38	
12	15	77.7	5			646.53	
13	15	89.2	5	1149	1882	438	
14	15	81.3	5	1454		363.4	
15	15	61.8	5	1119		628.1	

Statistics 28 (ChirpCenter Frequency: 5565.6 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	15	91.3	6	1357		116.045	1
2	15	53.3	6			290.82	
3	15	78.5	6	1635	962	427.99	
4	15	62.9	6			119.42	
5	15	85.8	6	1479	1621	624.72	
6	15	82.9	6	1627		787.89	
7	15	89.3	6	1490	1434	48.6	
8	15	53.3	6	1740		511.01	
9	15	94.4	6	1481		267.44	
10	15	62.4	6	1512		591.08	
11	15	52.5	6			653.11	
12	15	51.8	6	1089		396.64	
13	15	96.3	6	1899		468.1	
14	15	71.4	6	1329		67.8	
15	15	53.4	6	1669	1386	640.3	

Statistics 29 (ChirpCenter Frequency: 5566 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	18	93.9	5	1327		10.057	1
2	18	94.4	5	1035		578.453	
3	18	66.4	5	1689		239.867	
4	18	60.1	5	1377		470.83	
5	18	89	5			205.903	
6	18	71.7	5	1336	1020	632.377	
7	18	75.5	5			326.87	
8	18	51.8	5	1314		568.403	
9	18	57.9	5			445.687	
10	18	61.2	5	1511		362.23	
11	18	61.9	5	1394		347.893	
12	18	88	5	1435		581.917	
13	18	99.6	5	1427	1455	384.42	
14	18	52.4	5	1617	1148	276.123	
15	18	83.2	5			553.187	
16	18	74.7	5	1168	1245	336.6	
17	18	53.6	5	952		53.933	
18	18	93.4	5	1116		184.867	

Statistics 30 (ChirpCenter Frequency: 5564.8 MHz)

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 Spacing (µsec)	Start Location Within Interval (msec)	Detection (1:yes;0:no)
1	16	52.5	8	1096	1130	457.955	1
2	16	65.2	8			573.43	
3	16	51.5	8	1801		366.79	
4	16	84.5	8	1762	1172	689.78	
5	16	90.6	8	1109		565.93	
6	16	92.9	8	1279		391.78	
7	16	66.5	8	936		592.18	
8	16	87.1	8	1487		449.89	
9	16	76.3	8	1743	1874	163.98	
10	16	62.3	8	1168		607	
11	16	54.9	8			92.58	
12	16	83.5	8	1697		425.37	
13	16	92	8	1579		420.9	
14	16	82.9	8	1182		551.9	
15	16	72.9	8	1288	1018	689	
16	16	62.1	8			100	

Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5530	9	1	333	1	5655.0, 5498.0, 5516.0, 5285.0, 5635.0, 5390.0, 5699.0, 5423.0, 5663.0, 5370.0, 5350.0, 5469.0, 5511.0, 5525.0, 5566.0, 5586.0, 5255.0, 5410.0, 5316.0, 5404.0, 5482.0, 5706.0, 5414.0, 5646.0, 5383.0, 5519.0, 5313.0, 5721.0, 5455.0, 5637.0, 5618.0, 5408.0, 5273.0, 5549.0, 5609.0, 5698.0, 5541.0, 5442.0, 5461.0, 5352.0, 5397.0, 5547.0, 5262.0, 5314.0, 5378.0, 5459.0, 5272.0, 5418.0, 5279.0, 5563.0, 5466.0, 5579.0, 5544.0, 5673.0, 5653.0, 5652.0, 5329.0, 5691.0, 5260.0, 5702.0, 5340.0, 5684.0, 5359.0, 5446.0, 5402.0, 5578.0, 5319.0, 5358.0, 5324.0, 5304.0, 5250.0, 5678.0, 5427.0, 5577.0, 5594.0, 5385.0, 5669.0, 5598.0, 5412.0, 5705.0, 5366.0, 5717.0, 5479.0, 5263.0, 5679.0, 5335.0, 5496.0, 5454.0, 5429.0, 5348.0, 5382.0, 5556.0, 5620.0, 5411.0, 5317.0, 5694.0, 5535.0, 5562.0, 5608.0, 5538.0 (number of hits: 16)
2	5530	9	1	333	1	5445.0, 5313.0, 5639.0, 5705.0, 5634.0, 5350.0, 5560.0, 5468.0, 5317.0, 5645.0, 5478.0, 5715.0, 5720.0, 5665.0, 5648.0, 5580.0, 5548.0, 5614.0, 5538.0, 5294.0, 5325.0, 5366.0, 5723.0, 5351.0, 5296.0, 5576.0, 5365.0, 5474.0, 5391.0, 5661.0, 5523.0, 5327.0, 5400.0, 5290.0, 5465.0, 5680.0, 5342.0, 5502.0, 5557.0, 5438.0, 5579.0, 5687.0, 5392.0, 5703.0, 5454.0, 5343.0, 5393.0, 5360.0, 5425.0, 5324.0, 5272.0, 5667.0, 5562.0, 5588.0, 5567.0, 5662.0, 5511.0, 5347.0, 5599.0, 5385.0, 5467.0, 5532.0, 5658.0, 5589.0, 5517.0, 5276.0, 5270.0, 5568.0, 5335.0, 5447.0, 5257.0, 5622.0, 5641.0, 5426.0, 5553.0, 5308.0, 5522.0, 5717.0, 5603.0, 5337.0, 5278.0, 5505.0, 5396.0, 5640.0, 5386.0, 5594.0, 5371.0, 5452.0, 5605.0, 5719.0, 5353.0, 5697.0, 5679.0, 5659.0, 5499.0, 5606.0, 5563.0, 5534.0, 5483.0, 5595.0 (number of hits: 18)
3	5530	9	1	333	1	5528.0, 5516.0, 5699.0, 5256.0, 5613.0, 5660.0, 5324.0, 5626.0, 5339.0, 5288.0, 5640.0, 5312.0, 5637.0, 5424.0, 5617.0, 5597.0, 5371.0, 5474.0, 5428.0, 5467.0, 5616.0, 5294.0, 5287.0, 5433.0, 5461.0, 5385.0, 5684.0, 5482.0, 5408.0, 5703.0, 5558.0, 5251.0, 5322.0, 5683.0, 5491.0, 5372.0, 5524.0, 5431.0, 5650.0, 5630.0, 5652.0, 5498.0, 5442.0, 5310.0, 5366.0, 5624.0, 5416.0, 5389.0, 5321.0, 5291.0, 5315.0, 5348.0, 5369.0, 5477.0, 5555.0, 5641.0, 5576.0, 5529.0, 5514.0, 5352.0,

						5557.0, 5298.0, 5596.0, 5679.0, 5303.0, 5296.0, 5341.0, 5486.0, 5701.0, 5393.0, 5382.0, 5455.0, 5694.0, 5295.0, 5292.0, 5466.0, 5330.0, 5648.0, 5318.0, 5342.0, 5403.0, 5540.0, 5277.0, 5659.0, 5654.0, 5458.0, 5602.0, 5575.0, 5674.0, 5705.0, 5430.0, 5552.0, 5629.0, 5545.0, 5592.0, 5267.0, 5271.0, 5582.0, 5311.0, 5266.0 (number of hits: 13)
4	5530	9	1	333	1	5585.0, 5687.0, 5595.0, 5599.0, 5654.0, 5590.0, 5532.0, 5665.0, 5544.0, 5545.0, 5457.0, 5266.0, 5364.0, 5446.0, 5320.0, 5466.0, 5506.0, 5606.0, 5361.0, 5689.0, 5570.0, 5492.0, 5651.0, 5714.0, 5588.0, 5659.0, 5625.0, 5472.0, 5424.0, 5296.0, 5561.0, 5644.0, 5489.0, 5719.0, 5420.0, 5286.0, 5716.0, 5295.0, 5678.0, 5331.0, 5252.0, 5467.0, 5404.0, 5693.0, 5542.0, 5352.0, 5251.0, 5358.0, 5400.0, 5607.0, 5380.0, 5551.0, 5393.0, 5450.0, 5530.0, 5619.0, 5676.0, 5554.0, 5351.0, 5581.0, 5313.0, 5405.0, 5552.0, 5612.0, 5458.0, 5301.0, 5463.0, 5459.0, 5260.0, 5407.0, 5620.0, 5715.0, 5455.0, 5512.0, 5330.0, 5557.0, 5555.0, 5279.0, 5370.0, 5514.0, 5335.0, 5564.0, 5323.0, 5507.0, 5377.0, 5355.0, 5513.0, 5367.0, 5517.0, 5285.0, 5520.0, 5695.0, 5257.0, 5655.0, 5547.0, 5501.0, 5438.0, 5433.0, 5680.0, 5421.0 (number of hits: 22)
5	5530	9	1	333	1	5446.0, 5533.0, 5472.0, 5259.0, 5420.0, 5469.0, 5459.0, 5283.0, 5410.0, 5319.0, 5511.0, 5671.0, 5394.0, 5563.0, 5378.0, 5452.0, 5513.0, 5615.0, 5315.0, 5302.0, 5387.0, 5423.0, 5343.0, 5686.0, 5312.0, 5390.0, 5556.0, 5667.0, 5470.0, 5324.0, 5285.0, 5347.0, 5352.0, 5676.0, 5457.0, 5584.0, 5278.0, 5616.0, 5622.0, 5286.0, 5412.0, 5439.0, 5453.0, 5581.0, 5571.0, 5591.0, 5331.0, 5718.0, 5313.0, 5705.0, 5567.0, 5651.0, 5413.0, 5350.0, 5476.0, 5578.0, 5444.0, 5722.0, 5466.0, 5395.0, 5276.0, 5254.0, 5630.0, 5363.0, 5377.0, 5311.0, 5585.0, 5681.0, 5314.0, 5632.0, 5716.0, 5629.0, 5403.0, 5680.0, 5406.0, 5672.0, 5385.0, 5684.0, 5478.0, 5570.0, 5618.0, 5351.0, 5661.0, 5708.0, 5674.0, 5290.0, 5517.0, 5485.0, 5330.0, 5291.0, 5640.0, 5560.0, 5477.0, 5373.0, 5641.0, 5421.0, 5497.0, 5649.0, 5372.0, 5349.0 (number of hits: 9)
6	5530	9	1	333	1	5603.0, 5253.0, 5310.0, 5299.0, 5289.0, 5518.0, 5343.0, 5252.0, 5688.0, 5399.0, 5702.0, 5325.0, 5261.0, 5498.0, 5340.0, 5428.0, 5685.0, 5433.0, 5423.0, 5646.0, 5682.0, 5512.0, 5497.0, 5528.0, 5276.0, 5608.0, 5262.0, 5264.0, 5698.0, 5665.0, 5454.0, 5496.0, 5305.0, 5650.0, 5370.0, 5598.0, 5356.0, 5534.0, 5355.0, 5488.0,

						5647.0, 5387.0, 5520.0, 5284.0, 5562.0, 5602.0, 5294.0, 5535.0, 5441.0, 5267.0, 5382.0, 5478.0, 5481.0, 5444.0, 5394.0, 5690.0, 5625.0, 5567.0, 5580.0, 5337.0, 5443.0, 5532.0, 5318.0, 5377.0, 5464.0, 5282.0, 5570.0, 5510.0, 5483.0, 5349.0, 5583.0, 5651.0, 5296.0, 5436.0, 5666.0, 5269.0, 5392.0, 5416.0, 5538.0, 5407.0, 5680.0, 5657.0, 5371.0, 5467.0, 5637.0, 5509.0, 5357.0, 5506.0, 5658.0, 5431.0, 5329.0, 5435.0, 5344.0, 5581.0, 5692.0, 5291.0, 5527.0, 5422.0, 5723.0, 5438.0 (number of hits: 17)
7	5530	9	1	333	1	5373.0, 5338.0, 5687.0, 5650.0, 5695.0, 5502.0, 5671.0, 5651.0, 5355.0, 5266.0, 5444.0, 5429.0, 5496.0, 5713.0, 5643.0, 5384.0, 5255.0, 5656.0, 5509.0, 5344.0, 5443.0, 5435.0, 5700.0, 5399.0, 5668.0, 5261.0, 5678.0, 5714.0, 5437.0, 5324.0, 5339.0, 5259.0, 5341.0, 5499.0, 5596.0, 5423.0, 5556.0, 5390.0, 5281.0, 5427.0, 5299.0, 5401.0, 5296.0, 5493.0, 5555.0, 5630.0, 5506.0, 5351.0, 5354.0, 5588.0, 5449.0, 5710.0, 5510.0, 5315.0, 5464.0, 5688.0, 5486.0, 5316.0, 5372.0, 5440.0, 5703.0, 5666.0, 5425.0, 5512.0, 5289.0, 5256.0, 5704.0, 5404.0, 5641.0, 5659.0, 5297.0, 5664.0, 5253.0, 5599.0, 5434.0, 5426.0, 5547.0, 5412.0, 5457.0, 5254.0, 5367.0, 5544.0, 5403.0, 5629.0, 5679.0, 5534.0, 5377.0, 5562.0, 5561.0, 5275.0, 5349.0, 5711.0, 5422.0, 5608.0, 5722.0, 5454.0, 5453.0, 5305.0, 5698.0, 5627.0 (number of hits: 15)
8	5530	9	1	333	1	5493.0, 5420.0, 5554.0, 5386.0, 5579.0, 5406.0, 5716.0, 5418.0, 5385.0, 5286.0, 5460.0, 5433.0, 5590.0, 5538.0, 5440.0, 5251.0, 5311.0, 5371.0, 5501.0, 5352.0, 5293.0, 5287.0, 5647.0, 5596.0, 5663.0, 5257.0, 5425.0, 5403.0, 5484.0, 5558.0, 5651.0, 5369.0, 5500.0, 5496.0, 5475.0, 5548.0, 5713.0, 5535.0, 5709.0, 5395.0, 5701.0, 5578.0, 5449.0, 5551.0, 5271.0, 5380.0, 5572.0, 5343.0, 5292.0, 5373.0, 5545.0, 5367.0, 5325.0, 5582.0, 5275.0, 5605.0, 5417.0, 5263.0, 5683.0, 5681.0, 5264.0, 5631.0, 5711.0, 5660.0, 5350.0, 5447.0, 5718.0, 5516.0, 5457.0, 5678.0, 5623.0, 5490.0, 5430.0, 5687.0, 5527.0, 5476.0, 5252.0, 5609.0, 5408.0, 5347.0, 5695.0, 5680.0, 5478.0, 5465.0, 5664.0, 5404.0, 5431.0, 5598.0, 5358.0, 5604.0, 5717.0, 5636.0, 5374.0, 5583.0, 5327.0, 5329.0, 5413.0, 5382.0, 5712.0, 5635.0 (number of hits: 14)
9	5530	9	1	333	1	5695.0, 5611.0, 5368.0, 5635.0, 5535.0, 5344.0, 5640.0, 5466.0, 5618.0, 5464.0, 5362.0, 5655.0, 5481.0, 5645.0, 5554.0, 5329.0, 5575.0, 5627.0, 5696.0, 5706.0,

						5314.0, 5460.0, 5689.0, 5614.0, 5628.0, 5318.0, 5661.0, 5372.0, 5269.0, 5712.0, 5346.0, 5543.0, 5713.0, 5266.0, 5448.0, 5393.0, 5668.0, 5595.0, 5550.0, 5379.0, 5487.0, 5251.0, 5545.0, 5516.0, 5452.0, 5382.0, 5260.0, 5297.0, 5716.0, 5364.0, 5375.0, 5400.0, 5432.0, 5669.0, 5670.0, 5374.0, 5395.0, 5286.0, 5660.0, 5380.0, 5397.0, 5679.0, 5434.0, 5274.0, 5459.0, 5603.0, 5262.0, 5287.0, 5335.0, 5410.0, 5585.0, 5494.0, 5436.0, 5435.0, 5386.0, 5558.0, 5700.0, 5449.0, 5389.0, 5420.0, 5340.0, 5488.0, 5270.0, 5428.0, 5371.0, 5278.0, 5649.0, 5723.0, 5392.0, 5281.0, 5584.0, 5358.0, 5325.0, 5605.0, 5253.0, 5472.0, 5629.0, 5307.0, 5361.0, 5433.0 (number of hits: 8)
10	5530	9	1	333	1	5498.0, 5336.0, 5281.0, 5331.0, 5665.0, 5395.0, 5486.0, 5549.0, 5600.0, 5258.0, 5393.0, 5711.0, 5430.0, 5484.0, 5352.0, 5494.0, 5610.0, 5271.0, 5648.0, 5437.0, 5499.0, 5423.0, 5453.0, 5705.0, 5373.0, 5291.0, 5513.0, 5675.0, 5702.0, 5587.0, 5279.0, 5542.0, 5559.0, 5503.0, 5539.0, 5299.0, 5710.0, 5399.0, 5537.0, 5473.0, 5579.0, 5525.0, 5696.0, 5300.0, 5582.0, 5386.0, 5535.0, 5287.0, 5550.0, 5309.0, 5254.0, 5699.0, 5584.0, 5624.0, 5557.0, 5565.0, 5515.0, 5563.0, 5320.0, 5454.0, 5667.0, 5489.0, 5470.0, 5368.0, 5462.0, 5586.0, 5718.0, 5388.0, 5275.0, 5585.0, 5465.0, 5384.0, 5474.0, 5698.0, 5640.0, 5367.0, 5304.0, 5313.0, 5517.0, 5642.0, 5324.0, 5296.0, 5506.0, 5531.0, 5649.0, 5355.0, 5635.0, 5621.0, 5407.0, 5372.0, 5598.0, 5650.0, 5269.0, 5369.0, 5540.0, 5683.0, 5681.0, 5551.0, 5464.0, 5356.0 (number of hits: 22)
11	5530	9	1	333	1	5434.0, 5641.0, 5581.0, 5297.0, 5502.0, 5285.0, 5613.0, 5508.0, 5570.0, 5487.0, 5352.0, 5692.0, 5369.0, 5601.0, 5470.0, 5567.0, 5396.0, 5397.0, 5519.0, 5341.0, 5309.0, 5253.0, 5503.0, 5282.0, 5523.0, 5619.0, 5366.0, 5687.0, 5543.0, 5334.0, 5315.0, 5361.0, 5667.0, 5318.0, 5261.0, 5362.0, 5493.0, 5688.0, 5257.0, 5278.0, 5388.0, 5512.0, 5646.0, 5286.0, 5473.0, 5644.0, 5357.0, 5509.0, 5710.0, 5343.0, 5448.0, 5344.0, 5458.0, 5534.0, 5566.0, 5618.0, 5276.0, 5463.0, 5306.0, 5287.0, 5288.0, 5453.0, 5270.0, 5251.0, 5491.0, 5438.0, 5477.0, 5393.0, 5480.0, 5671.0, 5364.0, 5715.0, 5474.0, 5648.0, 5620.0, 5522.0, 5308.0, 5445.0, 5413.0, 5657.0, 5292.0, 5530.0, 5363.0, 5621.0, 5661.0, 5569.0, 5539.0, 5573.0, 5709.0, 5265.0, 5433.0, 5471.0, 5718.0, 5695.0, 5608.0, 5697.0, 5255.0, 5602.0, 5358.0, 5498.0 (number of hits: 18)

12	5530	9	1	333	1	5515.0, 5529.0, 5383.0, 5683.0, 5318.0, 5638.0, 5722.0, 5536.0, 5530.0, 5584.0, 5673.0, 5476.0, 5398.0, 5720.0, 5715.0, 5368.0, 5279.0, 5604.0, 5344.0, 5329.0, 5492.0, 5462.0, 5652.0, 5632.0, 5317.0, 5447.0, 5357.0, 5429.0, 5457.0, 5263.0, 5677.0, 5518.0, 5338.0, 5403.0, 5661.0, 5345.0, 5314.0, 5305.0, 5513.0, 5662.0, 5437.0, 5480.0, 5719.0, 5645.0, 5425.0, 5689.0, 5259.0, 5599.0, 5509.0, 5627.0, 5660.0, 5473.0, 5534.0, 5414.0, 5591.0, 5376.0, 5339.0, 5340.0, 5387.0, 5432.0, 5713.0, 5571.0, 5405.0, 5517.0, 5605.0, 5349.0, 5628.0, 5626.0, 5336.0, 5332.0, 5386.0, 5590.0, 5637.0, 5581.0, 5543.0, 5538.0, 5489.0, 5427.0, 5582.0, 5664.0, 5316.0, 5693.0, 5682.0, 5371.0, 5434.0, 5324.0, 5361.0, 5501.0, 5436.0, 5642.0, 5454.0, 5580.0, 5614.0, 5610.0, 5372.0, 5575.0, 5540.0, 5413.0, 5613.0, 5379.0 (number of hits: 14)
13	5530	9	1	333	1	5574.0, 5540.0, 5696.0, 5616.0, 5257.0, 5708.0, 5473.0, 5378.0, 5322.0, 5289.0, 5590.0, 5683.0, 5328.0, 5592.0, 5440.0, 5649.0, 5393.0, 5456.0, 5563.0, 5536.0, 5320.0, 5335.0, 5371.0, 5298.0, 5572.0, 5454.0, 5542.0, 5691.0, 5437.0, 5626.0, 5498.0, 5402.0, 5585.0, 5719.0, 5715.0, 5631.0, 5420.0, 5548.0, 5531.0, 5521.0, 5564.0, 5704.0, 5373.0, 5594.0, 5332.0, 5707.0, 5361.0, 5641.0, 5555.0, 5326.0, 5529.0, 5422.0, 5515.0, 5606.0, 5253.0, 5387.0, 5567.0, 5602.0, 5431.0, 5659.0, 5553.0, 5721.0, 5645.0, 5600.0, 5270.0, 5311.0, 5568.0, 5499.0, 5701.0, 5663.0, 5504.0, 5654.0, 5297.0, 5675.0, 5279.0, 5303.0, 5292.0, 5655.0, 5680.0, 5554.0, 5687.0, 5660.0, 5342.0, 5434.0, 5509.0, 5351.0, 5374.0, 5407.0, 5336.0, 5370.0, 5681.0, 5471.0, 5629.0, 5575.0, 5403.0, 5684.0, 5526.0, 5299.0, 5327.0, 5318.0 (number of hits: 20)
14	5530	9	1	333	1	5531.0, 5273.0, 5373.0, 5425.0, 5422.0, 5284.0, 5667.0, 5391.0, 5699.0, 5434.0, 5671.0, 5480.0, 5431.0, 5637.0, 5289.0, 5325.0, 5625.0, 5513.0, 5585.0, 5638.0, 5291.0, 5538.0, 5584.0, 5640.0, 5716.0, 5257.0, 5253.0, 5546.0, 5506.0, 5631.0, 5327.0, 5564.0, 5613.0, 5632.0, 5483.0, 5678.0, 5419.0, 5497.0, 5424.0, 5587.0, 5394.0, 5459.0, 5522.0, 5366.0, 5646.0, 5649.0, 5682.0, 5401.0, 5724.0, 5684.0, 5400.0, 5385.0, 5541.0, 5561.0, 5365.0, 5580.0, 5333.0, 5413.0, 5376.0, 5416.0, 5315.0, 5267.0, 5488.0, 5270.0, 5505.0, 5705.0, 5360.0, 5615.0, 5635.0, 5330.0, 5697.0, 5572.0, 5355.0, 5479.0, 5622.0, 5628.0, 5568.0, 5274.0, 5693.0, 5606.0, 5700.0, 5656.0, 5407.0, 5653.0, 5322.0, 5526.0, 5487.0, 5390.0, 5345.0, 5688.0,

						5456.0, 5691.0, 5432.0, 5283.0, 5548.0, 5647.0, 5387.0, 5648.0, 5481.0, 5462.0 (number of hits: 14)
15	5530	9	1	333	1	5579.0, 5550.0, 5596.0, 5655.0, 5497.0, 5309.0, 5340.0, 5704.0, 5555.0, 5444.0, 5595.0, 5616.0, 5688.0, 5651.0, 5599.0, 5676.0, 5466.0, 5643.0, 5652.0, 5533.0, 5254.0, 5330.0, 5636.0, 5452.0, 5377.0, 5679.0, 5359.0, 5308.0, 5417.0, 5493.0, 5548.0, 5441.0, 5313.0, 5528.0, 5281.0, 5482.0, 5534.0, 5400.0, 5682.0, 5477.0, 5399.0, 5485.0, 5588.0, 5455.0, 5365.0, 5301.0, 5316.0, 5272.0, 5382.0, 5389.0, 5470.0, 5712.0, 5355.0, 5663.0, 5350.0, 5260.0, 5379.0, 5435.0, 5269.0, 5565.0, 5479.0, 5516.0, 5539.0, 5723.0, 5690.0, 5611.0, 5433.0, 5332.0, 5551.0, 5649.0, 5303.0, 5546.0, 5414.0, 5252.0, 5264.0, 5423.0, 5324.0, 5714.0, 5357.0, 5371.0, 5672.0, 5255.0, 5630.0, 5705.0, 5532.0, 5267.0, 5591.0, 5547.0, 5261.0, 5635.0, 5380.0, 5667.0, 5637.0, 5581.0, 5326.0, 5419.0, 5527.0, 5378.0, 5462.0, 5625.0 (number of hits: 16)
16	5530	9	1	333	1	5252.0, 5457.0, 5467.0, 5251.0, 5301.0, 5388.0, 5313.0, 5715.0, 5484.0, 5578.0, 5412.0, 5316.0, 5680.0, 5531.0, 5273.0, 5562.0, 5415.0, 5376.0, 5516.0, 5333.0, 5586.0, 5304.0, 5645.0, 5275.0, 5265.0, 5708.0, 5277.0, 5669.0, 5336.0, 5637.0, 5280.0, 5446.0, 5671.0, 5495.0, 5442.0, 5286.0, 5349.0, 5666.0, 5560.0, 5386.0, 5293.0, 5281.0, 5466.0, 5662.0, 5627.0, 5256.0, 5529.0, 5391.0, 5435.0, 5397.0, 5620.0, 5472.0, 5321.0, 5404.0, 5668.0, 5718.0, 5691.0, 5545.0, 5464.0, 5375.0, 5535.0, 5310.0, 5485.0, 5614.0, 5695.0, 5480.0, 5309.0, 5259.0, 5492.0, 5447.0, 5329.0, 5543.0, 5288.0, 5697.0, 5600.0, 5423.0, 5498.0, 5642.0, 5370.0, 5546.0, 5640.0, 5568.0, 5524.0, 5566.0, 5622.0, 5636.0, 5577.0, 5661.0, 5581.0, 5302.0, 5318.0, 5542.0, 5448.0, 5475.0, 5357.0, 5389.0, 5503.0, 5369.0, 5533.0, 5497.0 (number of hits: 19)
17	5530	9	1	333	1	5433.0, 5283.0, 5628.0, 5600.0, 5594.0, 5563.0, 5511.0, 5269.0, 5576.0, 5711.0, 5682.0, 5550.0, 5500.0, 5342.0, 5506.0, 5691.0, 5708.0, 5527.0, 5405.0, 5439.0, 5361.0, 5602.0, 5624.0, 5389.0, 5489.0, 5710.0, 5669.0, 5453.0, 5519.0, 5330.0, 5700.0, 5579.0, 5653.0, 5671.0, 5444.0, 5683.0, 5347.0, 5354.0, 5299.0, 5606.0, 5534.0, 5541.0, 5284.0, 5398.0, 5260.0, 5583.0, 5446.0, 5391.0, 5693.0, 5596.0, 5384.0, 5676.0, 5267.0, 5640.0, 5570.0, 5568.0, 5629.0, 5414.0, 5551.0, 5636.0, 5663.0, 5507.0, 5315.0, 5565.0, 5502.0, 5492.0, 5554.0, 5627.0, 5465.0, 5440.0, 5678.0, 5573.0, 5488.0, 5339.0, 5281.0,

						5715.0, 5322.0, 5266.0, 5521.0, 5692.0, 5672.0, 5274.0, 5701.0, 5397.0, 5463.0, 5668.0, 5468.0, 5505.0, 5252.0, 5435.0, 5436.0, 5643.0, 5306.0, 5609.0, 5456.0, 5564.0, 5607.0, 5675.0, 5396.0, 5646.0 (number of hits: 19)
18	5530	9	1	333	1	5383.0, 5477.0, 5705.0, 5538.0, 5642.0, 5331.0, 5472.0, 5421.0, 5398.0, 5305.0, 5557.0, 5605.0, 5531.0, 5301.0, 5631.0, 5483.0, 5401.0, 5625.0, 5677.0, 5502.0, 5487.0, 5586.0, 5302.0, 5364.0, 5615.0, 5670.0, 5503.0, 5428.0, 5374.0, 5539.0, 5282.0, 5311.0, 5276.0, 5268.0, 5634.0, 5430.0, 5563.0, 5708.0, 5630.0, 5704.0, 5390.0, 5289.0, 5580.0, 5340.0, 5645.0, 5367.0, 5375.0, 5386.0, 5652.0, 5690.0, 5673.0, 5332.0, 5712.0, 5464.0, 5417.0, 5356.0, 5362.0, 5689.0, 5488.0, 5293.0, 5471.0, 5274.0, 5719.0, 5377.0, 5532.0, 5371.0, 5496.0, 5566.0, 5493.0, 5262.0, 5269.0, 5363.0, 5583.0, 5687.0, 5446.0, 5396.0, 5548.0, 5325.0, 5355.0, 5422.0, 5277.0, 5482.0, 5359.0, 5567.0, 5598.0, 5385.0, 5343.0, 5675.0, 5347.0, 5564.0, 5253.0, 5399.0, 5655.0, 5676.0, 5582.0, 5485.0, 5348.0, 5431.0, 5595.0, 5506.0 (number of hits: 15)
19	5530	9	1	333	1	5588.0, 5649.0, 5569.0, 5404.0, 5291.0, 5466.0, 5524.0, 5620.0, 5259.0, 5365.0, 5372.0, 5332.0, 5512.0, 5622.0, 5503.0, 5623.0, 5324.0, 5659.0, 5473.0, 5669.0, 5647.0, 5475.0, 5555.0, 5677.0, 5281.0, 5314.0, 5532.0, 5614.0, 5531.0, 5424.0, 5686.0, 5498.0, 5442.0, 5334.0, 5388.0, 5403.0, 5298.0, 5666.0, 5687.0, 5629.0, 5514.0, 5597.0, 5480.0, 5616.0, 5521.0, 5472.0, 5373.0, 5459.0, 5504.0, 5429.0, 5544.0, 5648.0, 5258.0, 5399.0, 5695.0, 5541.0, 5605.0, 5412.0, 5717.0, 5282.0, 5409.0, 5251.0, 5515.0, 5418.0, 5547.0, 5538.0, 5608.0, 5447.0, 5465.0, 5296.0, 5367.0, 5511.0, 5394.0, 5414.0, 5600.0, 5722.0, 5320.0, 5426.0, 5366.0, 5527.0, 5382.0, 5333.0, 5360.0, 5487.0, 5644.0, 5651.0, 5587.0, 5510.0, 5558.0, 5280.0, 5625.0, 5358.0, 5609.0, 5585.0, 5351.0, 5380.0, 5381.0, 5364.0, 5655.0, 5391.0 (number of hits: 20)
20	5530	9	1	333	1	5723.0, 5340.0, 5562.0, 5668.0, 5483.0, 5566.0, 5603.0, 5678.0, 5448.0, 5286.0, 5272.0, 5452.0, 5402.0, 5414.0, 5328.0, 5443.0, 5688.0, 5506.0, 5278.0, 5331.0, 5620.0, 5662.0, 5536.0, 5395.0, 5681.0, 5542.0, 5629.0, 5520.0, 5585.0, 5316.0, 5279.0, 5477.0, 5610.0, 5416.0, 5434.0, 5702.0, 5310.0, 5661.0, 5329.0, 5426.0, 5275.0, 5437.0, 5615.0, 5354.0, 5557.0, 5392.0, 5516.0, 5463.0, 5533.0, 5353.0, 5617.0, 5650.0, 5285.0, 5619.0, 5526.0,

						5521.0, 5639.0, 5683.0, 5587.0, 5455.0, 5527.0, 5330.0, 5421.0, 5531.0, 5560.0, 5567.0, 5574.0, 5601.0, 5405.0, 5598.0, 5480.0, 5302.0, 5525.0, 5262.0, 5634.0, 5428.0, 5409.0, 5317.0, 5546.0, 5438.0, 5502.0, 5572.0, 5435.0, 5368.0, 5614.0, 5505.0, 5679.0, 5630.0, 5468.0, 5292.0, 5612.0, 5294.0, 5579.0, 5359.0, 5378.0, 5288.0, 5594.0, 5600.0, 5284.0, 5649.0 (number of hits: 19)
21	5530	9	1	333	1	5623.0, 5328.0, 5612.0, 5349.0, 5716.0, 5284.0, 5403.0, 5634.0, 5668.0, 5331.0, 5571.0, 5677.0, 5464.0, 5656.0, 5591.0, 5323.0, 5588.0, 5629.0, 5419.0, 5539.0, 5288.0, 5386.0, 5488.0, 5433.0, 5413.0, 5290.0, 5530.0, 5537.0, 5692.0, 5366.0, 5315.0, 5626.0, 5482.0, 5639.0, 5362.0, 5572.0, 5513.0, 5294.0, 5649.0, 5552.0, 5285.0, 5460.0, 5665.0, 5505.0, 5549.0, 5524.0, 5261.0, 5445.0, 5477.0, 5640.0, 5390.0, 5272.0, 5302.0, 5548.0, 5398.0, 5471.0, 5342.0, 5604.0, 5508.0, 5400.0, 5480.0, 5702.0, 5710.0, 5336.0, 5350.0, 5542.0, 5303.0, 5518.0, 5497.0, 5305.0, 5662.0, 5425.0, 5289.0, 5306.0, 5684.0, 5466.0, 5314.0, 5273.0, 5264.0, 5651.0, 5678.0, 5438.0, 5673.0, 5514.0, 5590.0, 5546.0, 5338.0, 5522.0, 5340.0, 5589.0, 5253.0, 5525.0, 5446.0, 5507.0, 5410.0, 5704.0, 5255.0, 5316.0, 5454.0, 5453.0 (number of hits: 18)
22	5530	9	1	333	1	5672.0, 5406.0, 5477.0, 5376.0, 5351.0, 5365.0, 5629.0, 5440.0, 5363.0, 5334.0, 5498.0, 5344.0, 5541.0, 5584.0, 5713.0, 5690.0, 5478.0, 5714.0, 5324.0, 5647.0, 5395.0, 5586.0, 5420.0, 5683.0, 5529.0, 5711.0, 5329.0, 5397.0, 5538.0, 5287.0, 5301.0, 5500.0, 5642.0, 5637.0, 5284.0, 5339.0, 5638.0, 5451.0, 5704.0, 5364.0, 5550.0, 5425.0, 5277.0, 5531.0, 5626.0, 5416.0, 5494.0, 5327.0, 5609.0, 5702.0, 5633.0, 5356.0, 5671.0, 5275.0, 5307.0, 5261.0, 5337.0, 5320.0, 5636.0, 5643.0, 5296.0, 5421.0, 5674.0, 5720.0, 5342.0, 5402.0, 5310.0, 5282.0, 5455.0, 5315.0, 5524.0, 5381.0, 5347.0, 5511.0, 5374.0, 5383.0, 5497.0, 5331.0, 5670.0, 5509.0, 5606.0, 5401.0, 5317.0, 5572.0, 5288.0, 5410.0, 5267.0, 5504.0, 5545.0, 5534.0, 5449.0, 5676.0, 5581.0, 5359.0, 5302.0, 5635.0, 5593.0, 5680.0, 5520.0, 5625.0 (number of hits: 16)
23	5530	9	1	333	1	5546.0, 5416.0, 5660.0, 5313.0, 5414.0, 5289.0, 5365.0, 5632.0, 5659.0, 5607.0, 5616.0, 5543.0, 5407.0, 5691.0, 5429.0, 5257.0, 5510.0, 5698.0, 5396.0, 5642.0, 5707.0, 5526.0, 5390.0, 5687.0, 5378.0, 5699.0, 5312.0, 5254.0, 5690.0, 5486.0, 5676.0, 5290.0, 5568.0, 5705.0, 5636.0,

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24	5530	9	1	333	1	5305.0, 5400.0, 5295.0, 5327.0, 5396.0, 5601.0, 5431.0, 5615.0, 5278.0, 5460.0, 5269.0, 5339.0, 5277.0, 5314.0, 5508.0, 5414.0, 5265.0, 5352.0, 5516.0, 5342.0, 5332.0, 5326.0, 5546.0, 5394.0, 5506.0, 5381.0, 5641.0, 5640.0, 5418.0, 5571.0, 5308.0, 5351.0, 5685.0, 5318.0, 5254.0, 5492.0, 5673.0, 5582.0, 5307.0, 5478.0, 5636.0, 5593.0, 5404.0, 5529.0, 5563.0, 5591.0, 5501.0, 5663.0, 5540.0, 5600.0, 5572.0, 5677.0, 5675.0, 5491.0, 5364.0, 5438.0, 5463.0, 5656.0, 5470.0, 5538.0, 5469.0, 5450.0, 5524.0, 5410.0, 5481.0, 5597.0, 5302.0, 5294.0, 5587.0, 5428.0, 5637.0, 5624.0, 5567.0, 5447.0, 5623.0, 5372.0, 5585.0, 5530.0, 5465.0, 5409.0, 5276.0, 5346.0, 5568.0, 5336.0, 5289.0, 5686.0, 5660.0, 5345.0, 5651.0, 5258.0, 5480.0, 5389.0, 5535.0, 5691.0, 5375.0, 5560.0, 5510.0, 5324.0, 5580.0, 5430.0 (number of hits: 18)
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