FCC PART 15.407
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

Ruckus Wireless, Inc.

350 West Java Drive, Sunnyvale, CA 94089, USA

FCC ID: S9GT504

Report Type:	**Equipment Type:**
Original Report	802.11a/b/g/n/ac Wireless Access Point

Prepared By:	Chen Ge
Report Number:	R1409183-DFS
Report Date:	2015-02-18
Reviewed By:	Bo Li RF Lead

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1409183-DFS	Initial	2015-02-18

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Ruckus Wireless, Inc.,* and their product FCC ID: S9GT504 or the "EUT" as referred to in this report. The EUT is an 802.11a/b/g/n/ac access point.

1.2 Mechanical Description of EUT

The EUT measures approximately 394 mm (L) x 216 mm (W) x 68 mm (H) and weighs approximately 2.5 kg.

The test data gathered are from typical production sample, serial number: *25140600007*

1.3 Objective

This report is prepared on behalf of *Ruckus Wireless, Inc*. in accordance with FCC CFR47 §15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

The objective is to determine compliance with FCC rules for DFS Detection Threshold, Channel Availability Check Time, Uniform Spreading U-NII Detection Bandwidth, Channel Closing Transmission Time, and Channel Move time in Master Mode.

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION

1.6 Test Facility

Bay Area Compliance Laboratories Corp. (BACL) is:

1- An independent Commercial Test Laboratory accredited to **ISO 17025: 2005** by **A2LA**, in the fields of: Electromagnetic Compatibility & Telecommunications covering Emissions, Immunity, Radio, RF Exposure, Safety and Telecom. This includes NEBS (Network Equipment Building System), Wireless RF, Telecommunications Terminal Equipment (TTE); Network Equipment; Information Technology Equipment (ITE); Medical Electrical Equipment; Industrial, Commercial, and Medical Test Equipment; Professional Audio and Video Equipment; Electronic (Digital) Products; Industrial and Scientific Instruments; Cabled Distribution Systems and Energy Efficiency Lighting.

2- An ENERGY STAR Recognized Laboratory, for the LM80 Testing, a wide variety of Luminaires and Computers.

3- A NIST Designated Phase-I and Phase-II CAB including: ACMA (Australian Communication and Media Authority), BSMI (Bureau of Standards, Metrology and Inspection of Taiwan), IDA (Infocomm Development Authority of Singapore), IC (Industry Canada), Korea (Ministry of Communications Radio Research Laboratory), NCC (Formerly DGT; Directorate General of Telecommunication of Chinese Taipei) OFTA (Office of the Telecommunications Authority of Hong Kong), Vietnam, VCCI - Voluntary Control Council for Interference of Japan and a designated EU CAB (Conformity Assessment Body) (Notified Body) for the EMC and R&TTE Directives.

4 - A Product Certification Body accredited to **ISO Guide 65: 1996** by **A2LA** to certify:
1- Unlicensed, Licensed radio frequency devices and Telephone Terminal Equipment for the FCC. Scope A1, A2, A3, A4, B1, B2, B3, B4 & C.
2. Radio Standards Specifications (RSS) in the Category I Equipment Standards List and All Broadcasting Technical Standards (BETS) in Category I Equipment Standards List for Industry Canada.
3. Radio Communication Equipment for Singapore.
4. Radio Equipment Specifications, GMDSS Marine Radio Equipment Specifications, and Fixed Network Equipment Specifications for Hong Kong.
5. Japan MIC Telecommunication Business Law (A1, A2) and Radio Law (B1, B2 and B3).
6. Audio/Video, Battery Charging Systems, Computers, Displays, Enterprise Servers, Imaging Equipment, Set-Top Boxes, Telephony, Televisions, Ceiling Fans, CFLs (including GU24s), Decorative Light Strings, Integral LED Lamps, Luminaires, Residential Ventilating Fans.

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz, as well as ANSI C63.4-2009, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24: 2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: A-0027. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for Laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at

http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(H), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

2.2 EUT Exercise Software

The test utility used version was 9.6.0 was provided by Ruckus Wireless Inc., and was verified by Chen Ge to comply with the standard requirements being tested against.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturer	Description	Model	Serial Number
Dell	Laptop	Latitude E5420	CHZCMQ1

2.5 EUT Internal Configuration Details

Manufacturer	Description	Model	Serial Number
Ruckus	Main Board (SANTORINI)	ASM 120-11266-001 rev.3.1	RUK03828

2.6 Interface Ports and Cables

Cable Description	Length (m)	From	To
Ethernet Cable	1m	Laptop	EUT
RF Cable	< 1 m	EUT	PSA

2.7 Power Supply List and Details

Manufacturer	Description	Model	Part Number
Ruckus	AC Power Supply	PA1024-480HEB042	740-64125-020

3 Summary of Test Results

The following result table represents the list of measurements required under the CFR47 §47 Part15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

Items	Description of Test	Results
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

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

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: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
EIRP≥ 200 milliwatt	-64 dBm
EIRP< 200 milliwatt and power spectral density < 10dBm/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 UNII 99% transmission power bandwidth. See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:
- For the Short Pulse Radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the *Radar Waveform*.

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 is used and 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 (Microseconds)	PRI (Microseconds)	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 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	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{PRI_{\mu sec}}\right)\right\}$	60%	30
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.					

Table 6: Long Pulse Radar Test Signal

Radar Type	Bursts	Chirp Width (MHz)	PRI (usec)	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

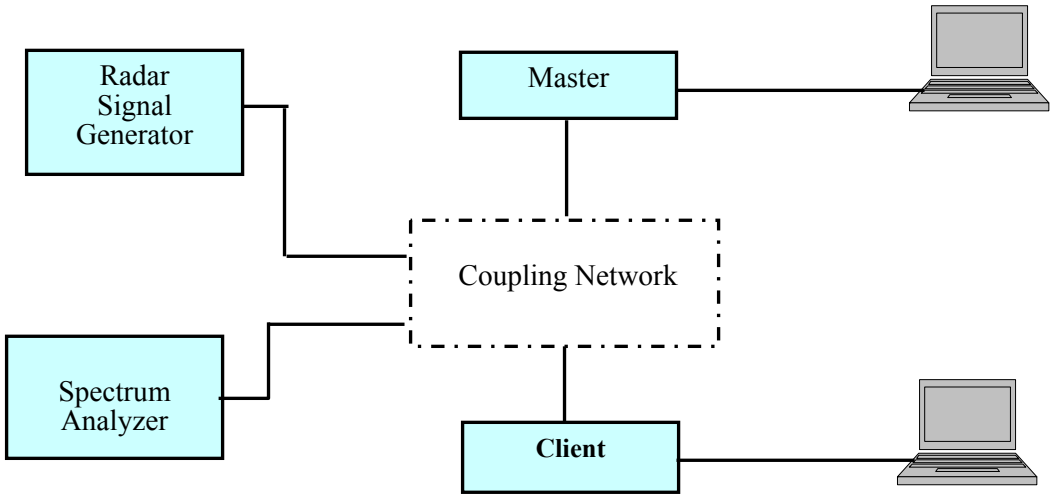
Table 7: Frequency Hopping Radar Test Signal

Radar Type	Pulse Width (usec)	PRI (usec)	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

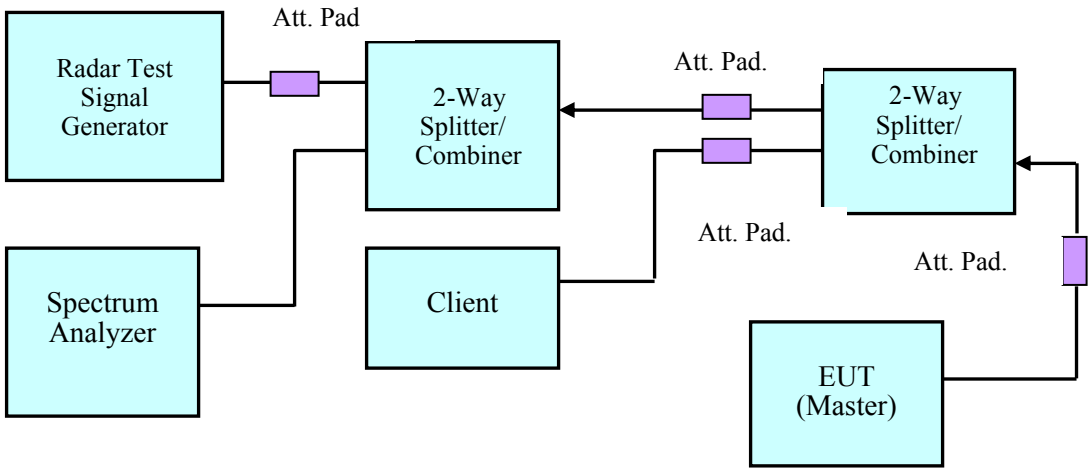
4.2 DFS Measurement System

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

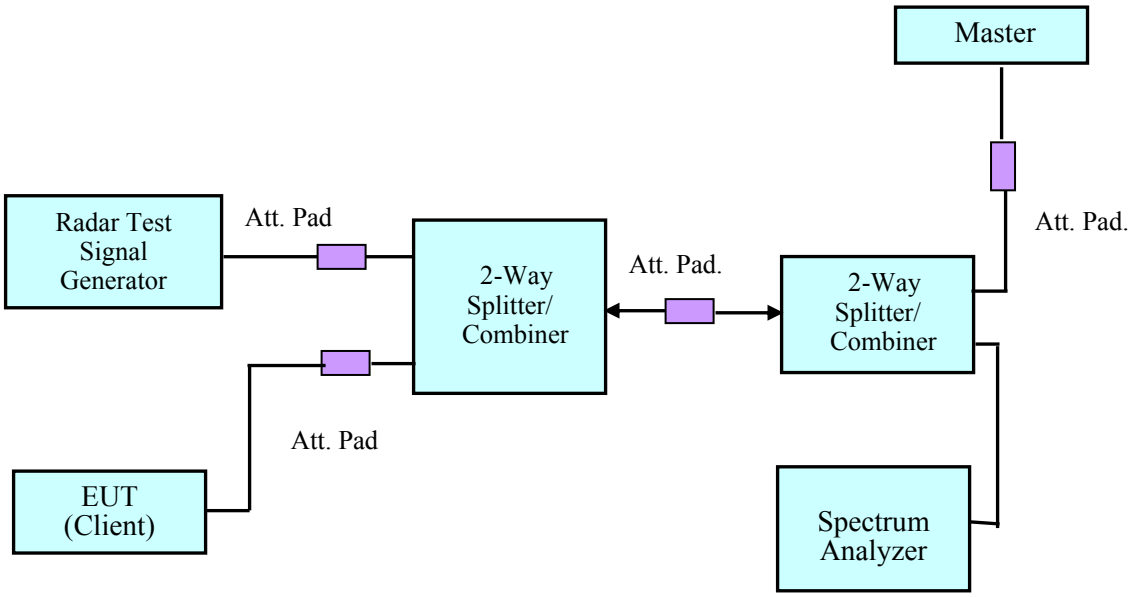
4.3 System Block Diagram



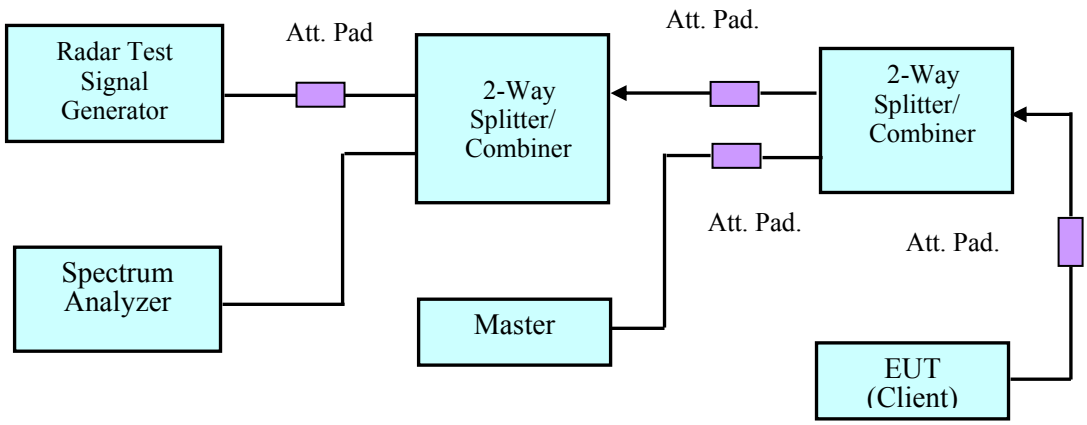
4.4 Conducted Method



Setup for Master with injection at the Master

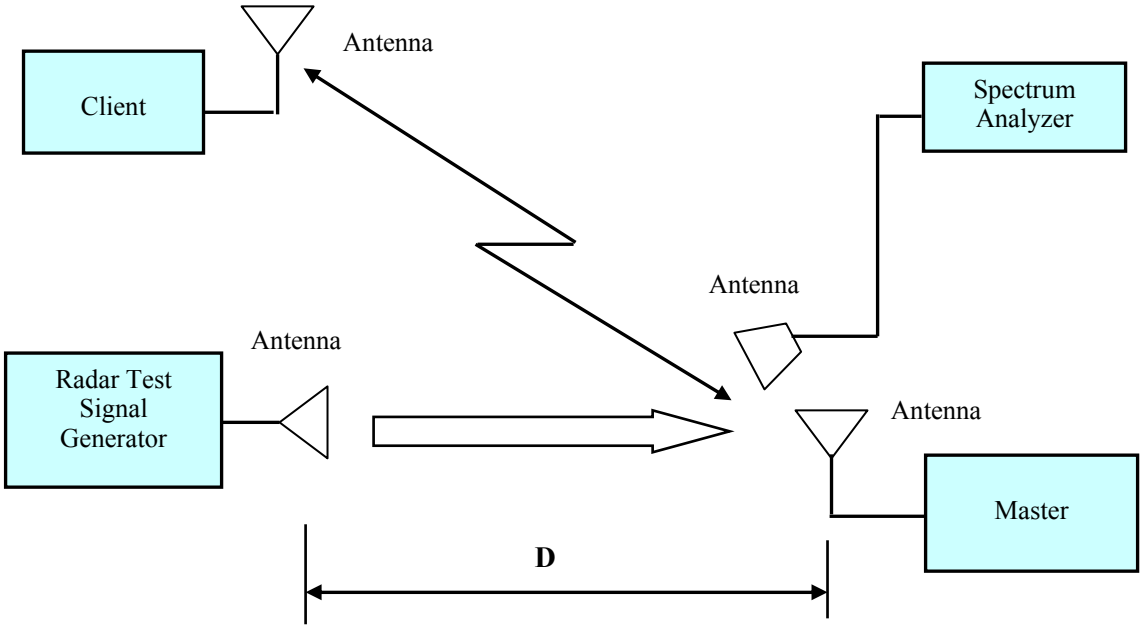


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

A spectrum analyzer is used as a monitor that verifies the EUT's status, which includes the Channel Closing Transmission Time and the Channel Move Time. The Spectrum analyzer is used to monitor the equipment under test (EUT) does not transmit on the same channel during the Non-Occupied Period after the radar detection. It is also used to monitor EUT transmissions during the Channel Availability Check Time.

5 Test Results

5.1 Description of EUT

The EUT operates in 5230-5350 MHz and 5470-5725 MHz range in Master Mode.

The rated output power of EUT is > 23 dBm (EIRP), Therefore the required interference threshold level is -64 dBm, the required radiated threshold at antenna port is -64 dBm.

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

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

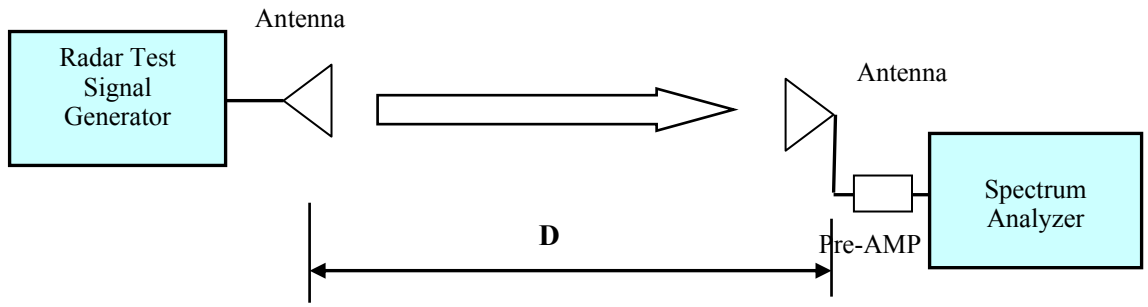
The EUT was tested with the 5 dBi gain antenna.

5.2 Test Equipment List and Details

Manufacturer	Equipment Description	Model	S/N	Calibration Date
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A
ASCOR	Upconverter	AS-7206	N/A	N/A
Agilent	Spectrum Analyzer	E4440A	MY44303352	2014-10-16
A.R.A.	Antenna Horn	DRG-118/A	1132	2015-01-29
EMCO	Antenna Horn	3115	9511-4627	2014-10-17
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A
Midwest	Attenuator	290-30	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A

Statement of Traceability: BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

5.3 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

5.4 Test Environmental Conditions

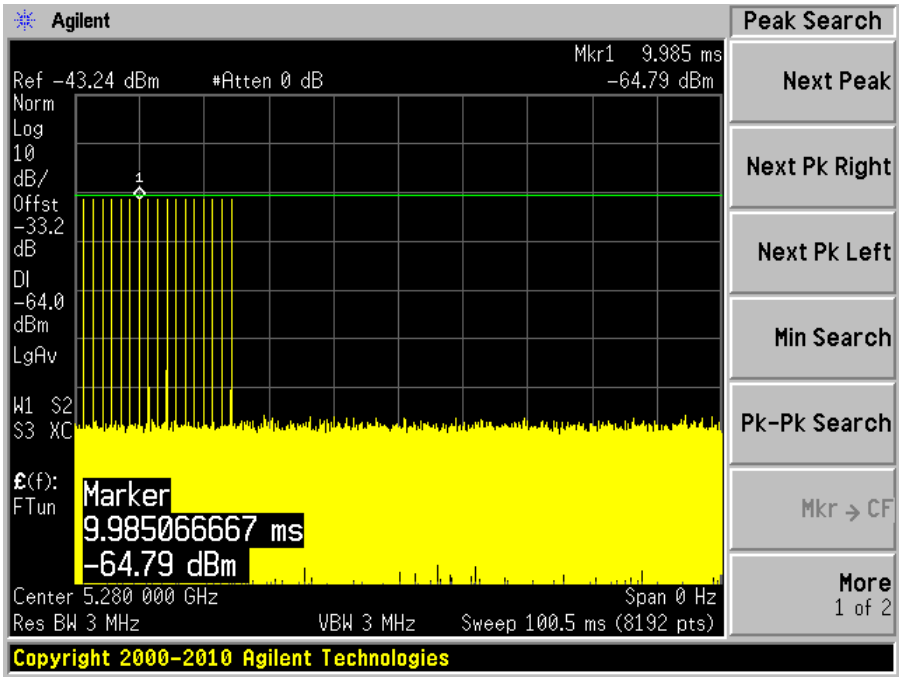
Temperature:	23 °C
Relative Humidity:	33 %
ATM Pressure:	101.65 kPa

Testing performed by Chen Ge on 2015-02-11 at DFS testing site.

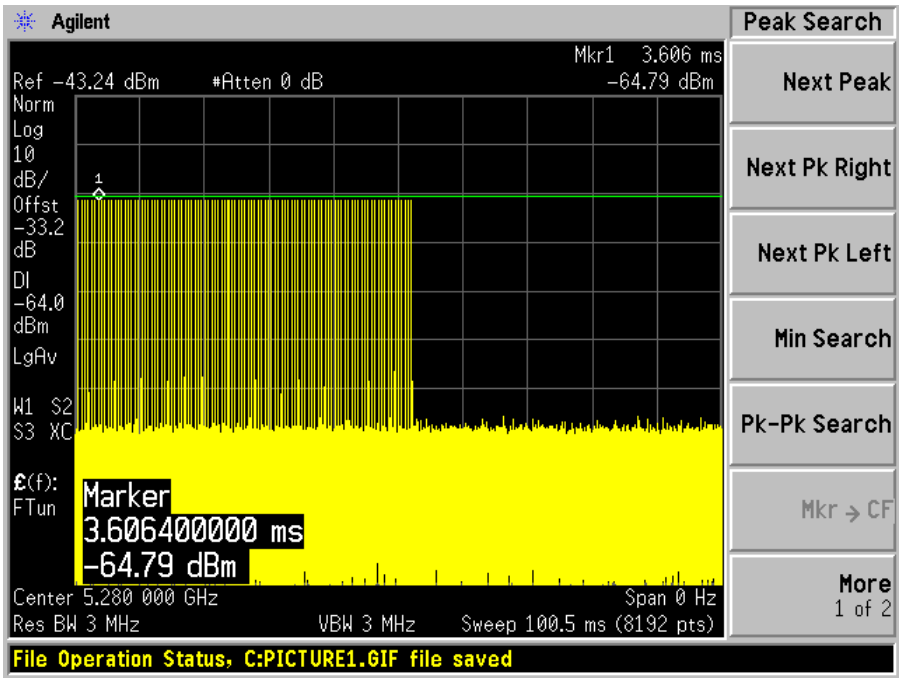
Plots of Radar Waveforms

5280 MHz

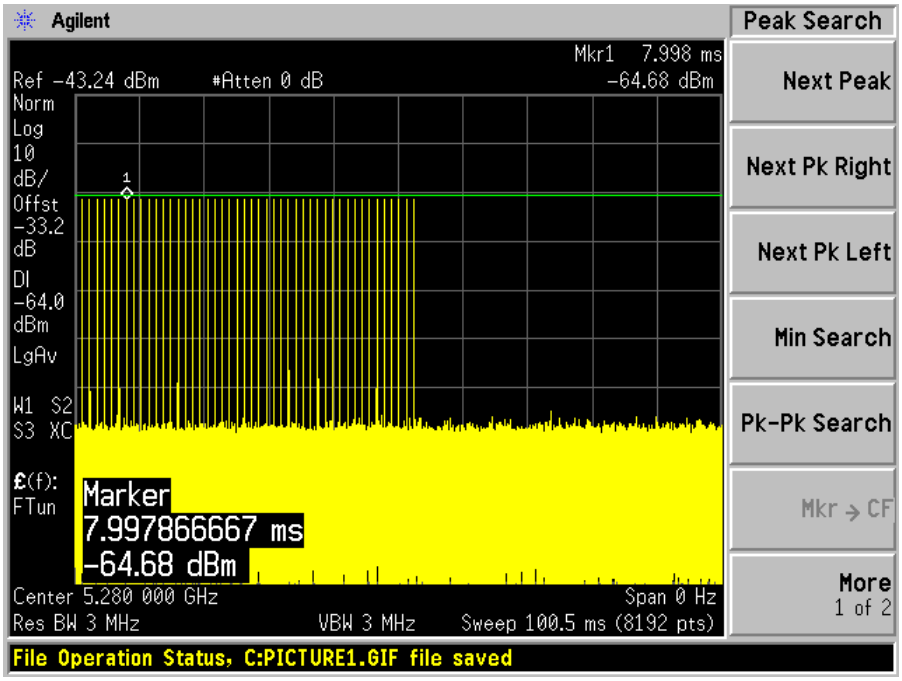
Radar Type 0



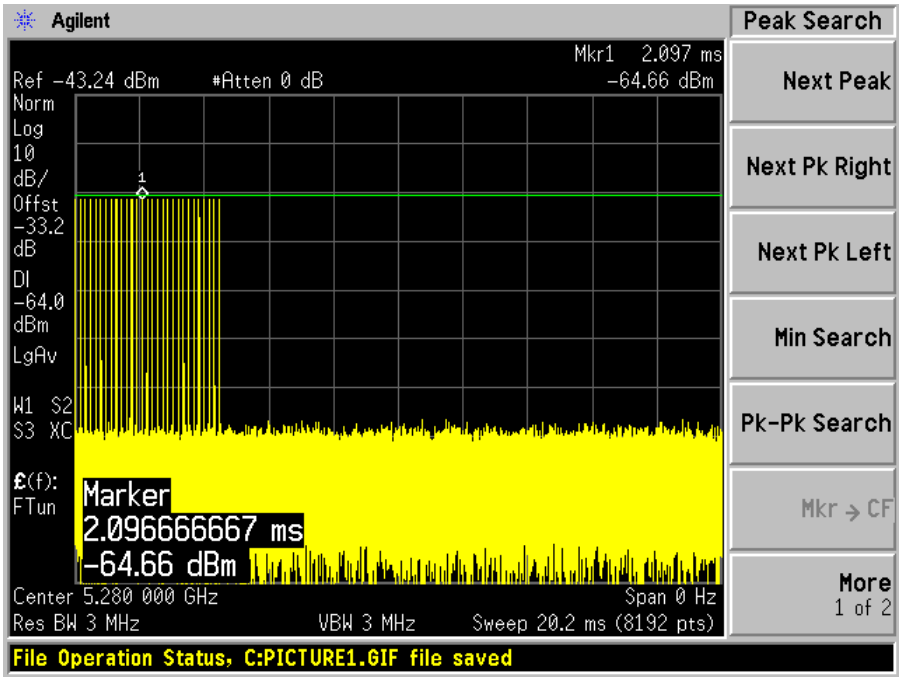
Radar Type 1A



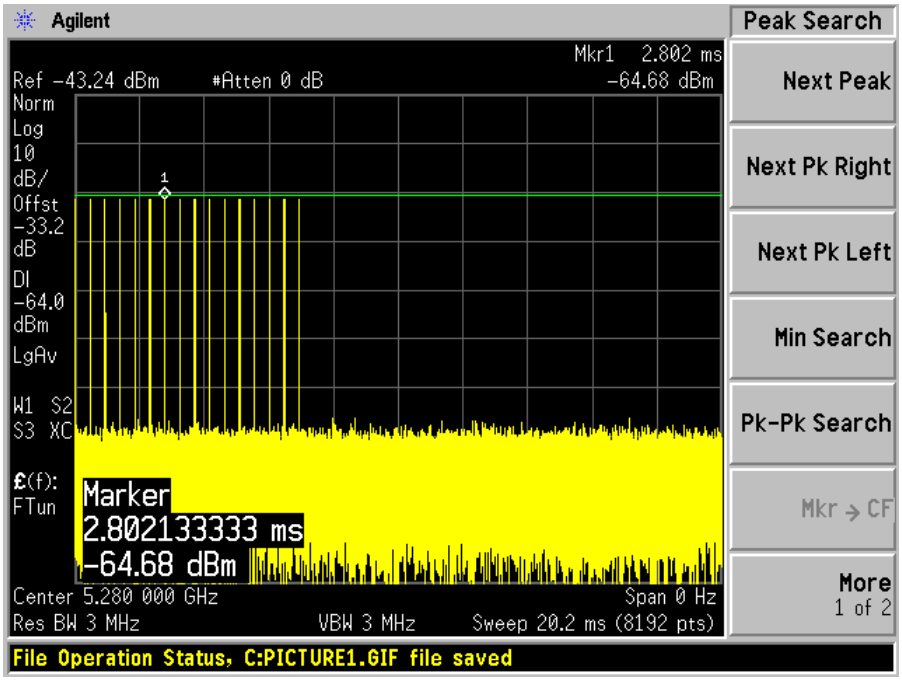
Radar Type 1B



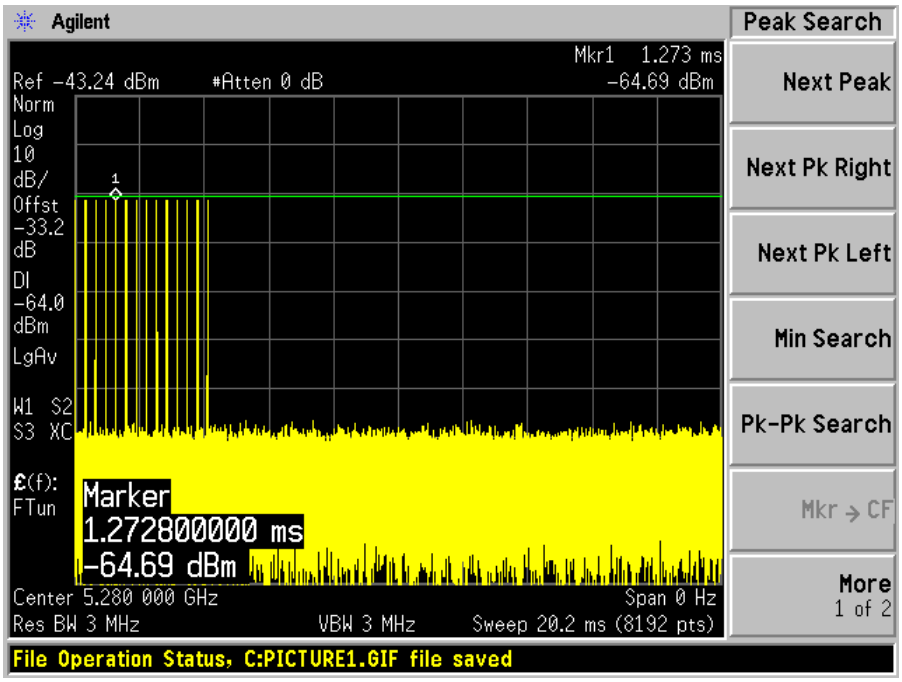
Radar Type 2



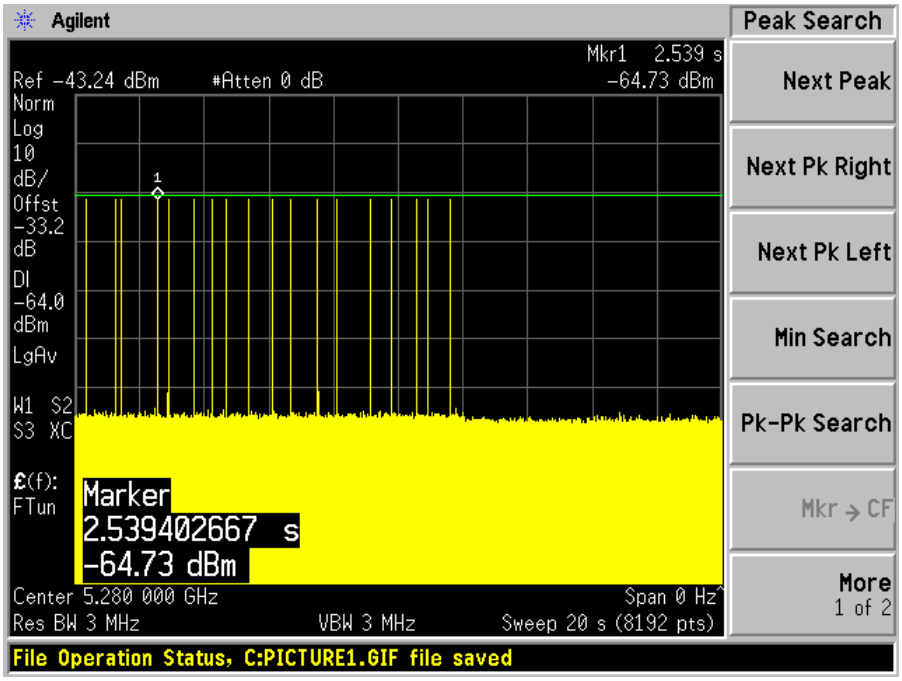
Radar Type 3



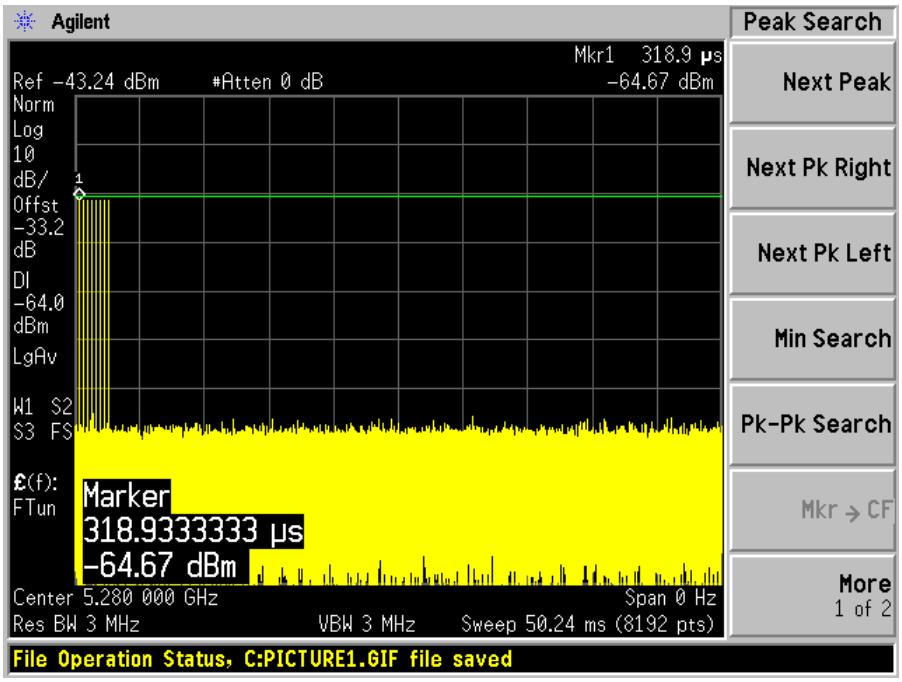
Radar Type 4



Radar Type 5

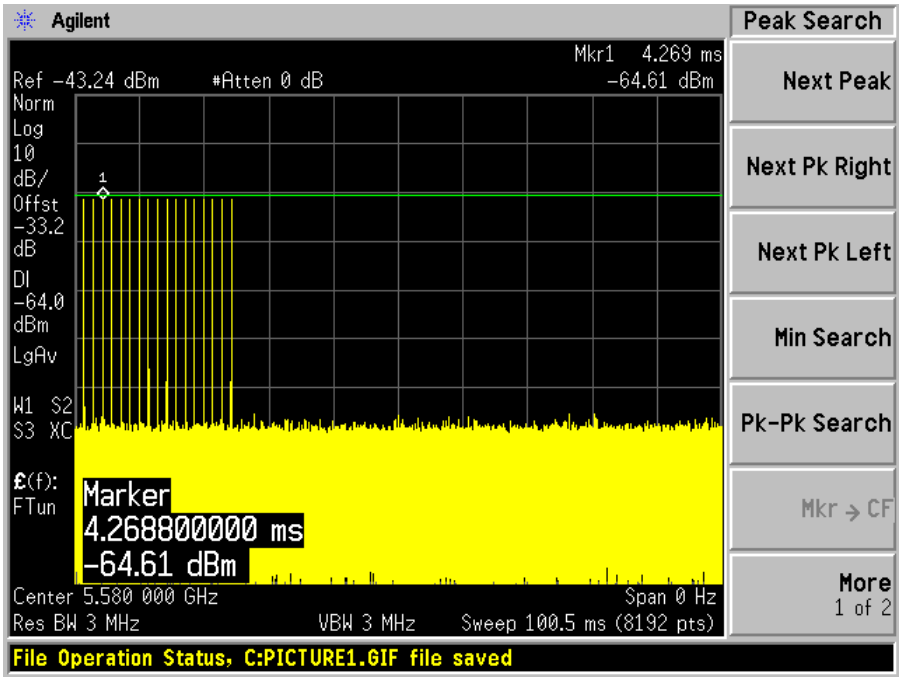


Radar Type 6

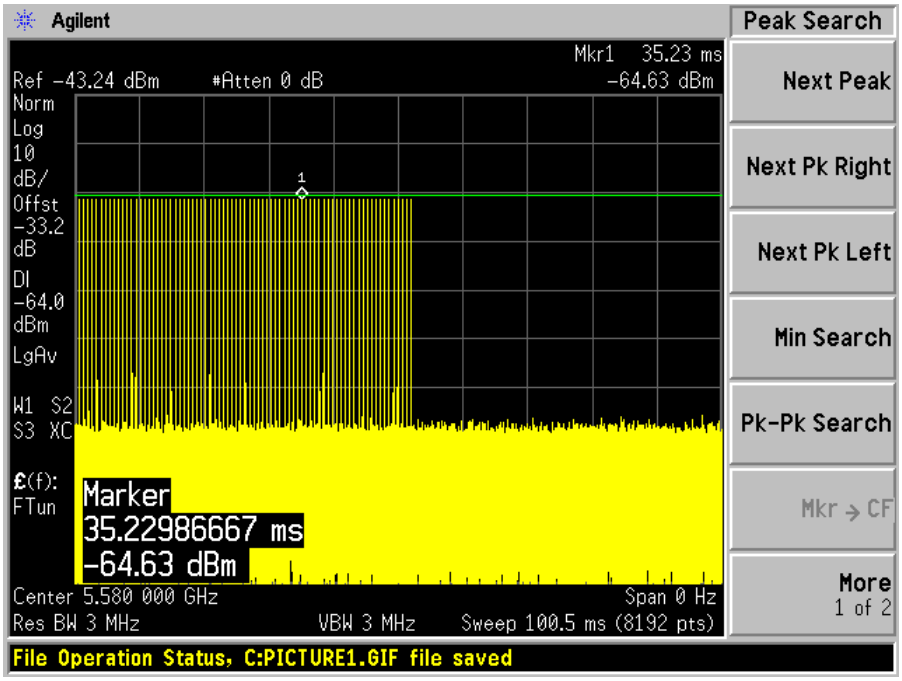


5580 MHz

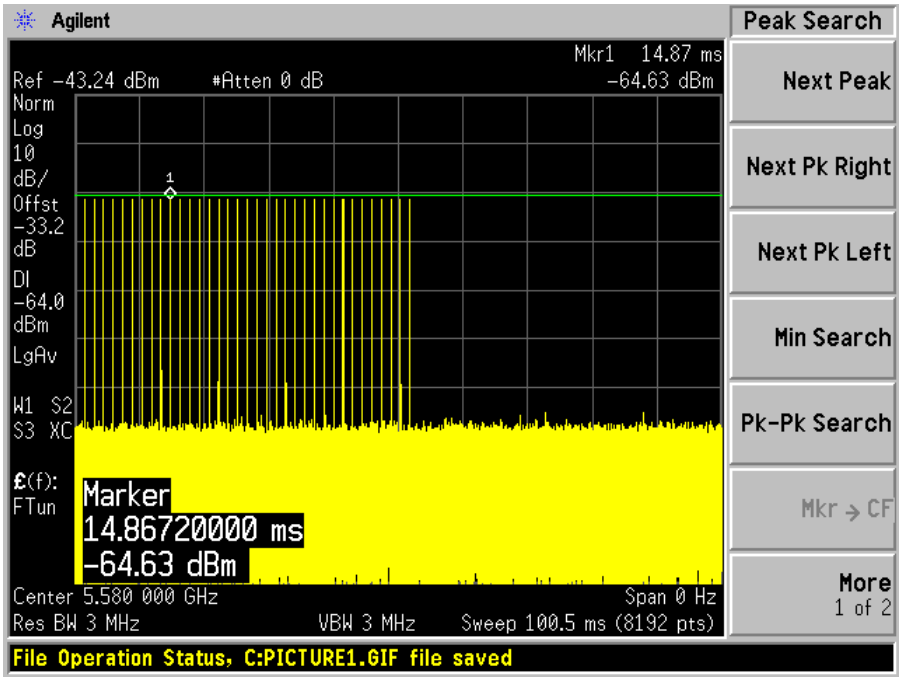
Radar Type 0



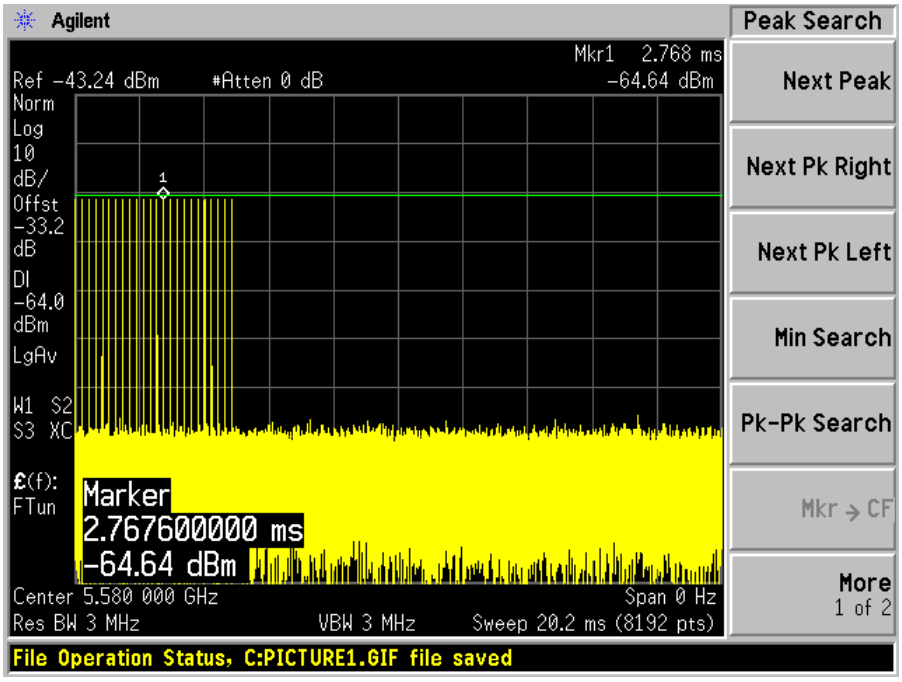
Radar Type 1A



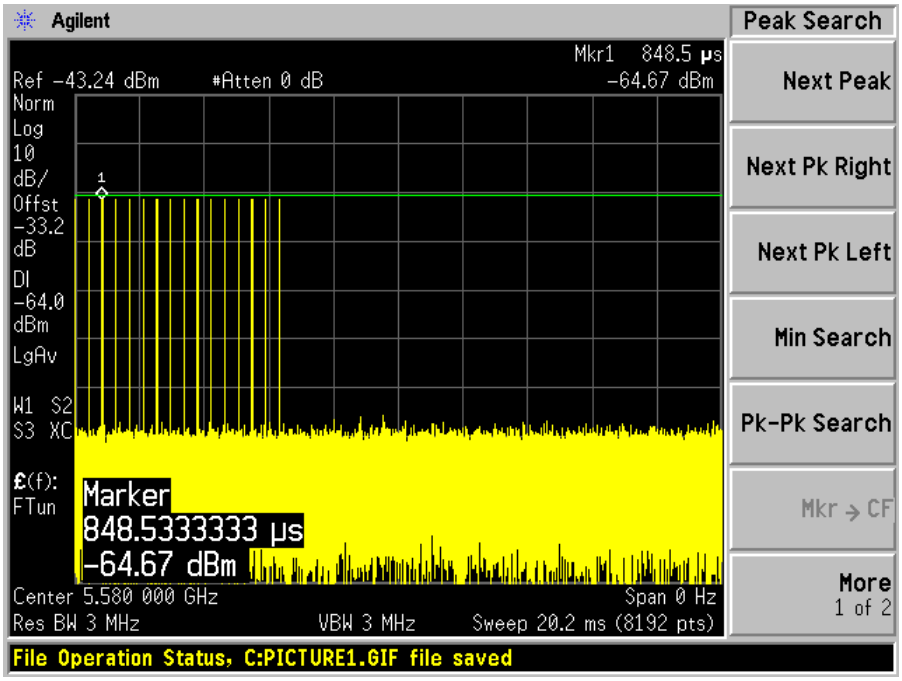
Radar Type 1B



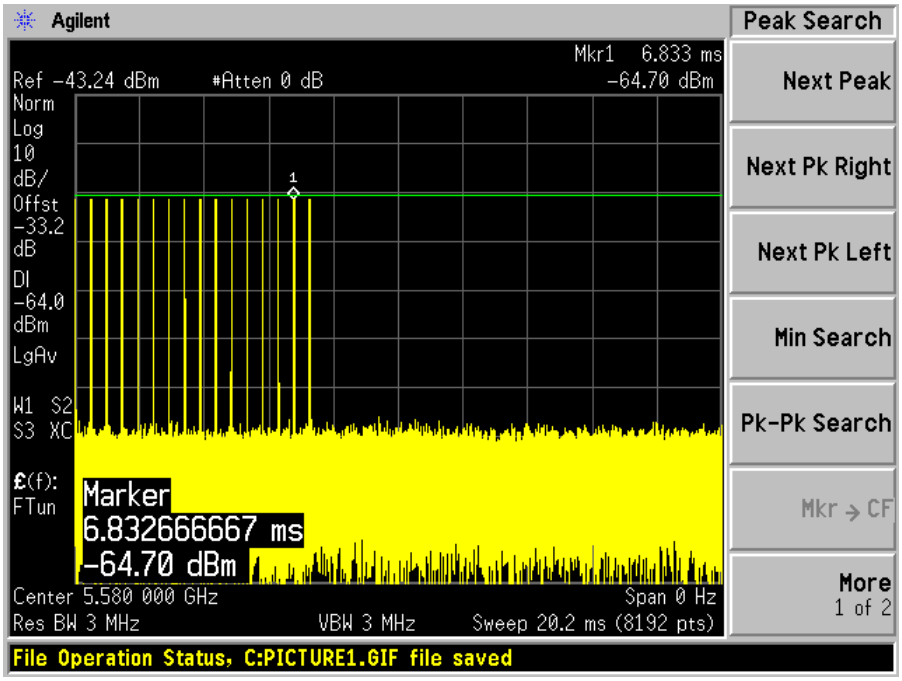
Radar Type 2



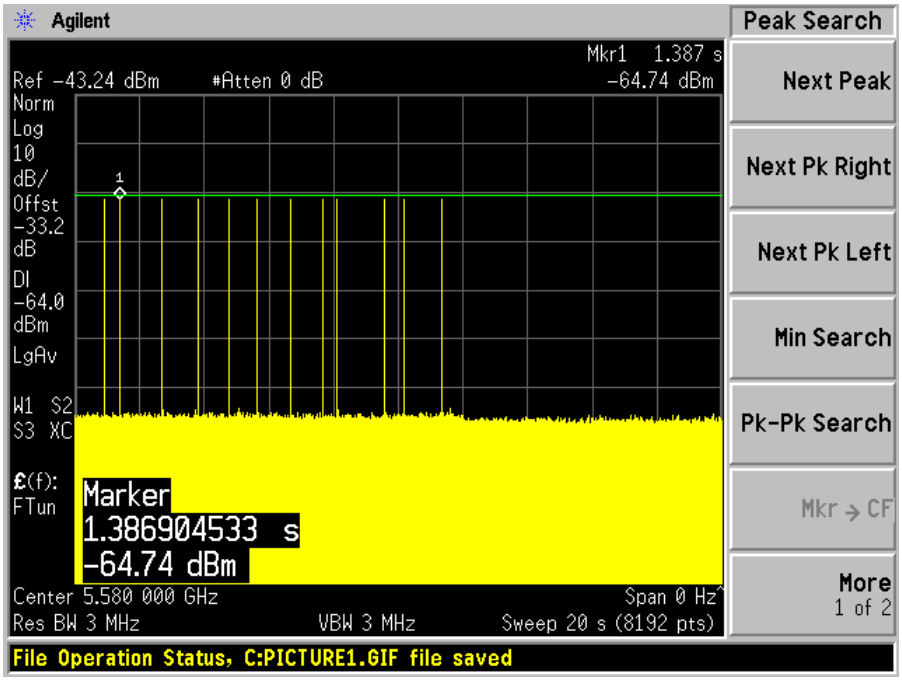
Radar Type 3



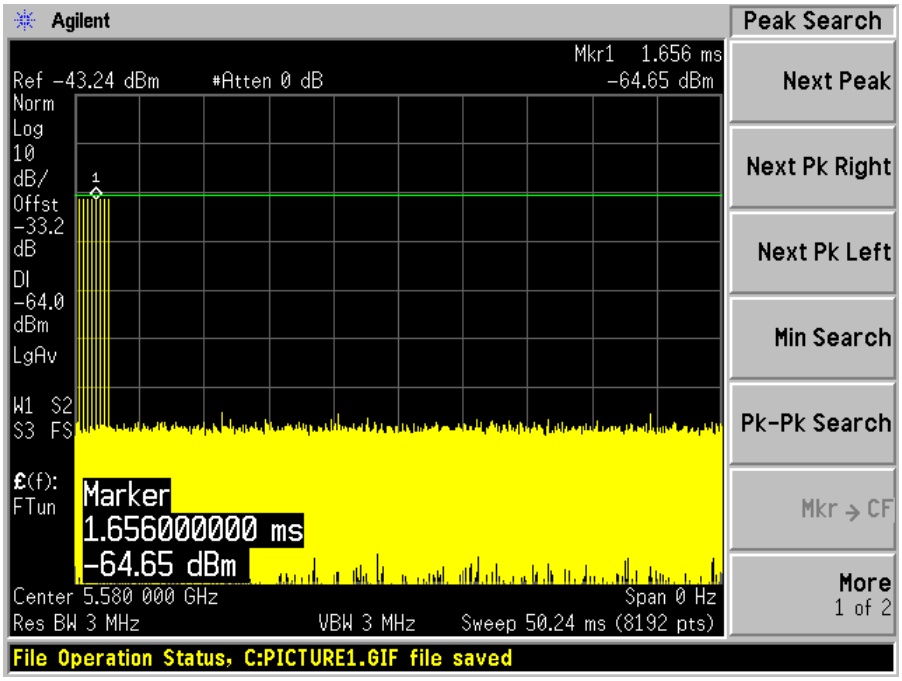
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

1) Measure the initial power-up time of EUT.

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

5280 MHz and 5580 MHz Bandwidth 20 MHz

EUT initial Power-up cycle (Second)
39

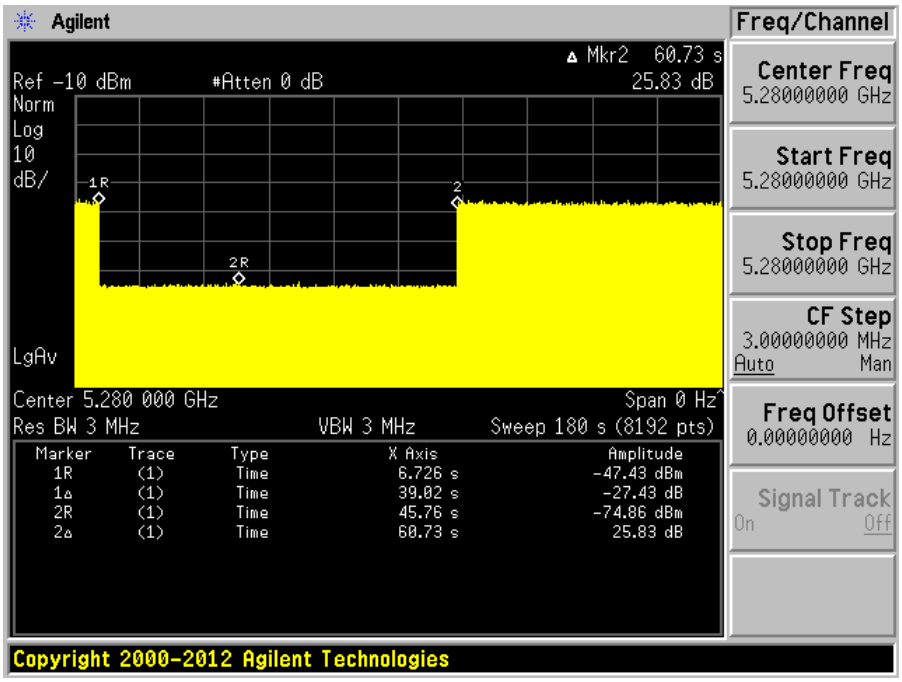
Results:

Timing of Radar Burst	Spectrum Analyzer Display
No Radar Triggered	Transmission begin after power-up cycle +60 seconds CAC
Within 2 seconds of the CAC starting	No transmission
Within the last 2 seconds of the CAC	No transmission

Please refer to the following plots.

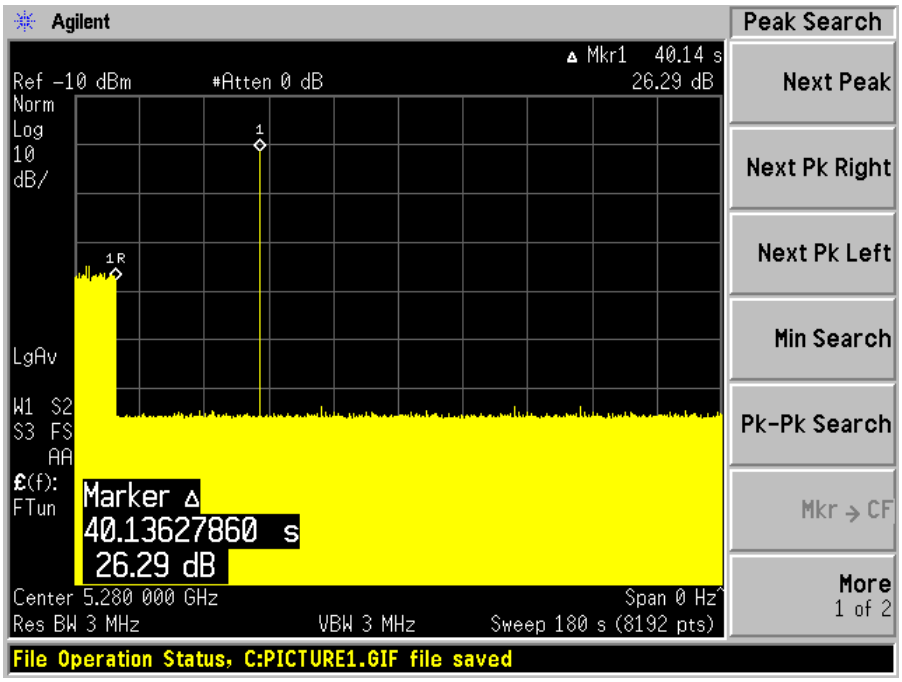
5280 MHz, Bandwidth 20 MHz

Plot of without Radar signal applied



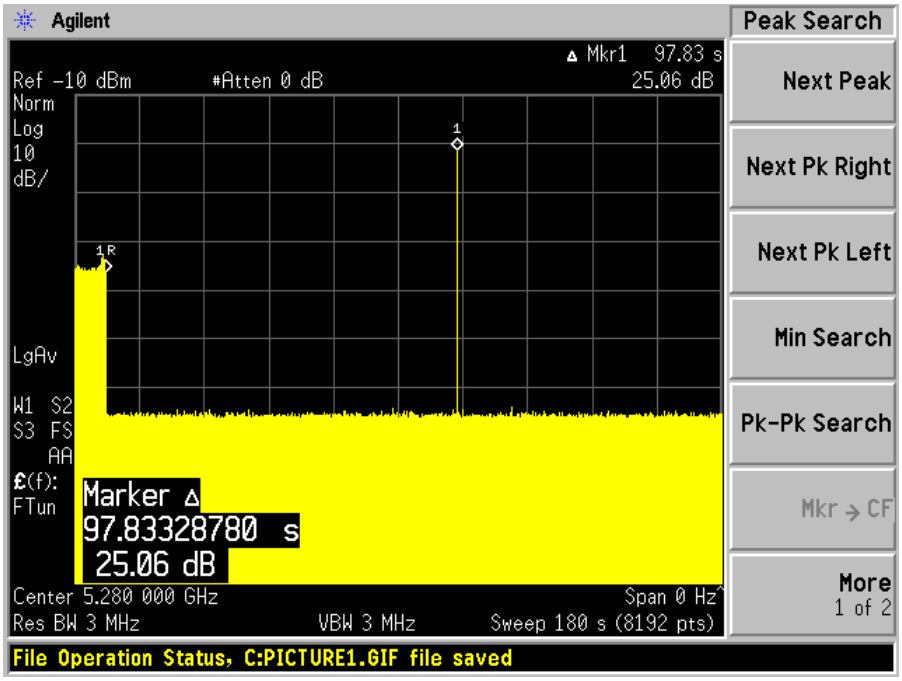
Note: The power-up cycle is 39 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC



No transmissions found after radar signal applied.

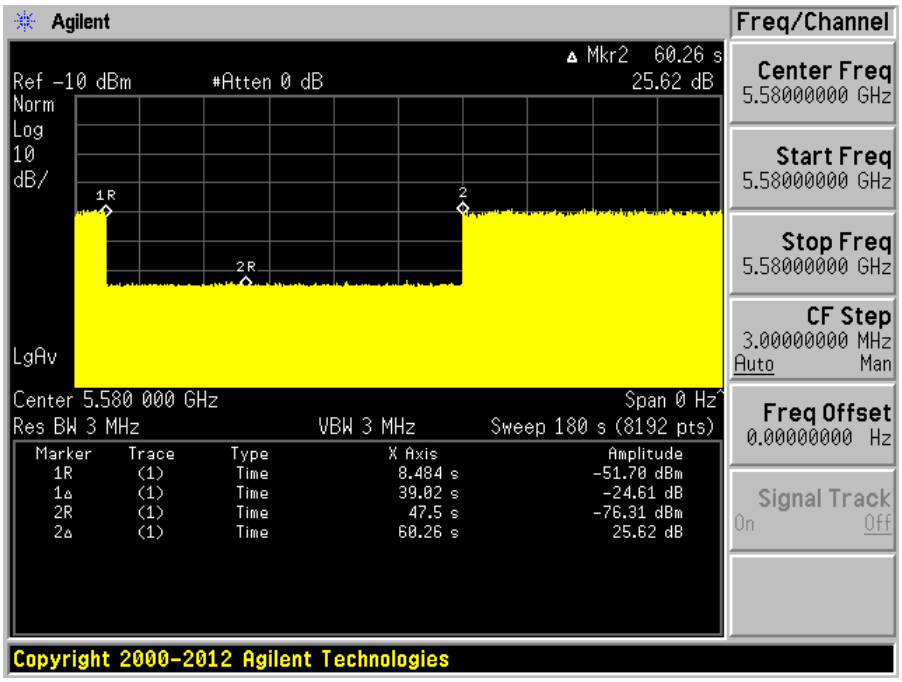
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

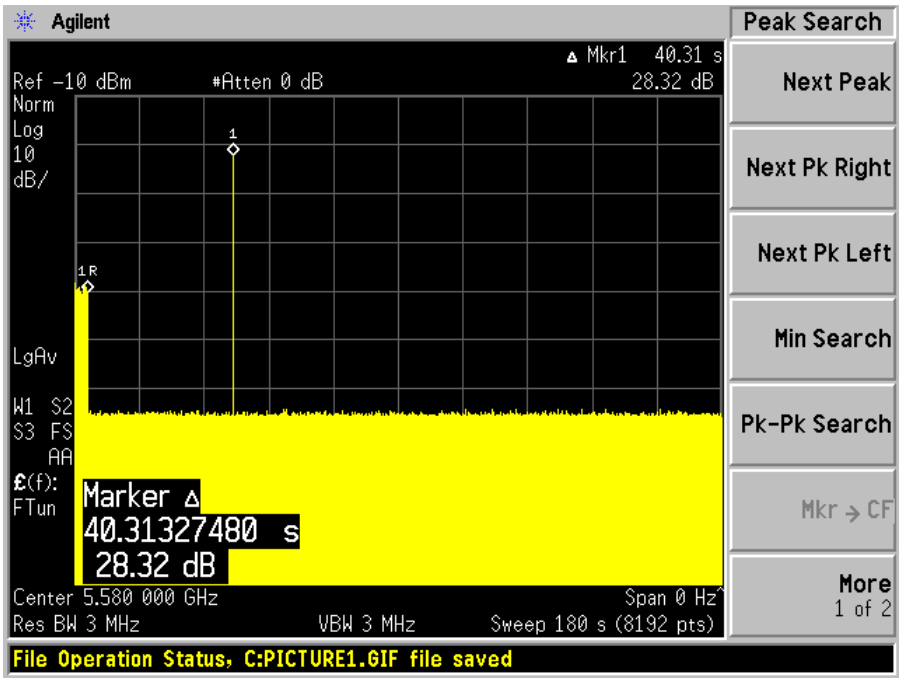
5580 MHz, Bandwidth 20 MHz

Plot of without Radar signal applied



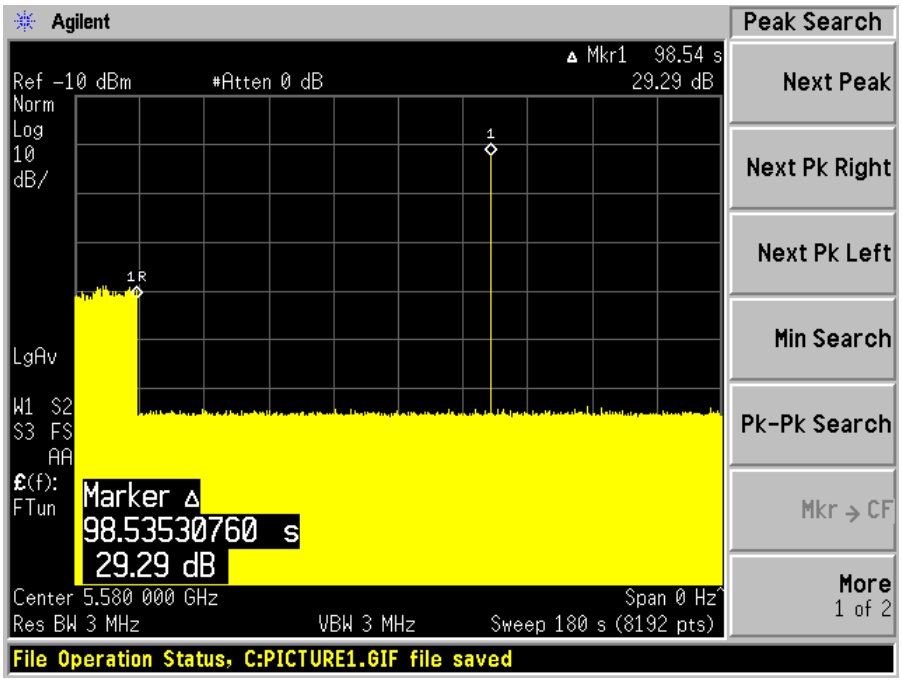
Note: The power-up cycle is 39 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC



No transmissions found after radar signal applied.

Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

Perform one of the type 0 to type 4 short pulse radar waveform, BACL use type 0 radar signal, repeat using a long pulse radar type5 waveform.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N * Dwell Time

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

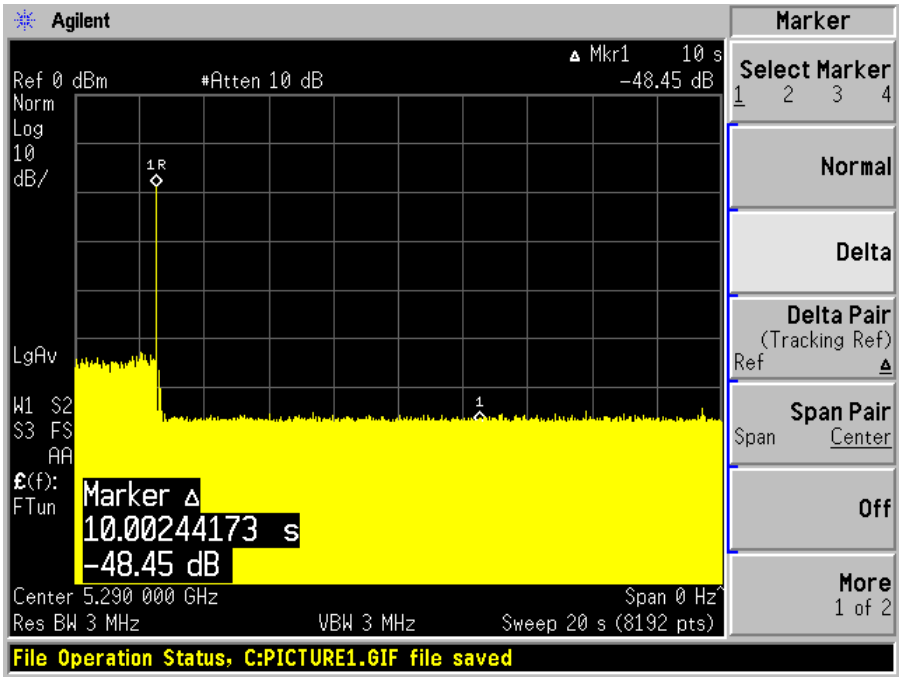
7.2 Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5290	80	Type 0	Compliant
		Type 5	Compliant
5530	80	Type 0	Compliant
		Type 5	Compliant

Please refer to the following tables and plots.

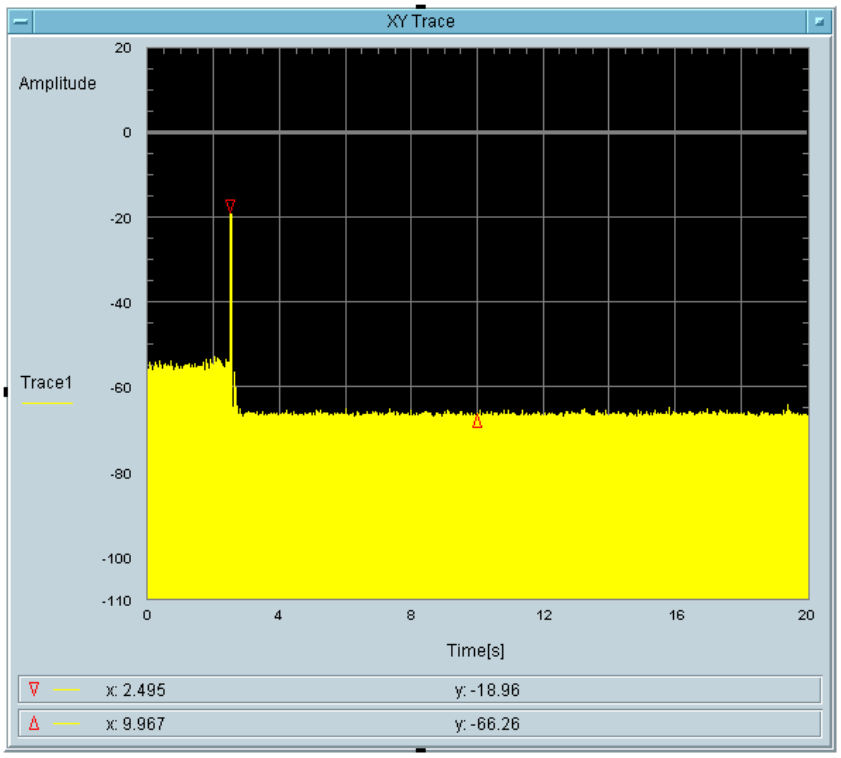
5290 MHz, Bandwidth 80 MHz

Type 0 radar channel move time result:



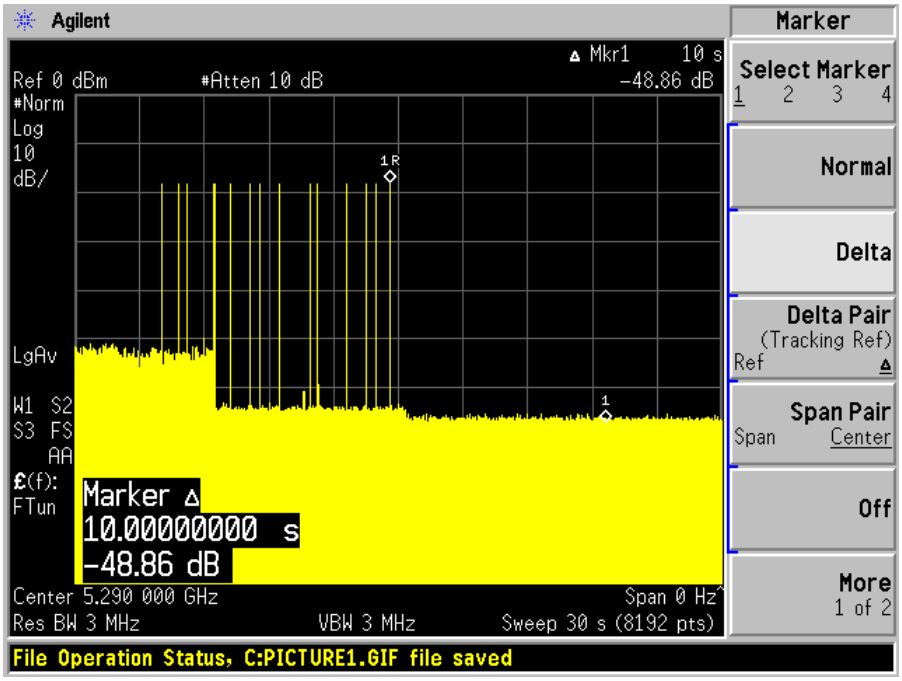
Type 0 radar channel closing transmission time result:

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5290	0	2.441 ms	200 ms	0 ms	60 ms	< 10 s	10 s



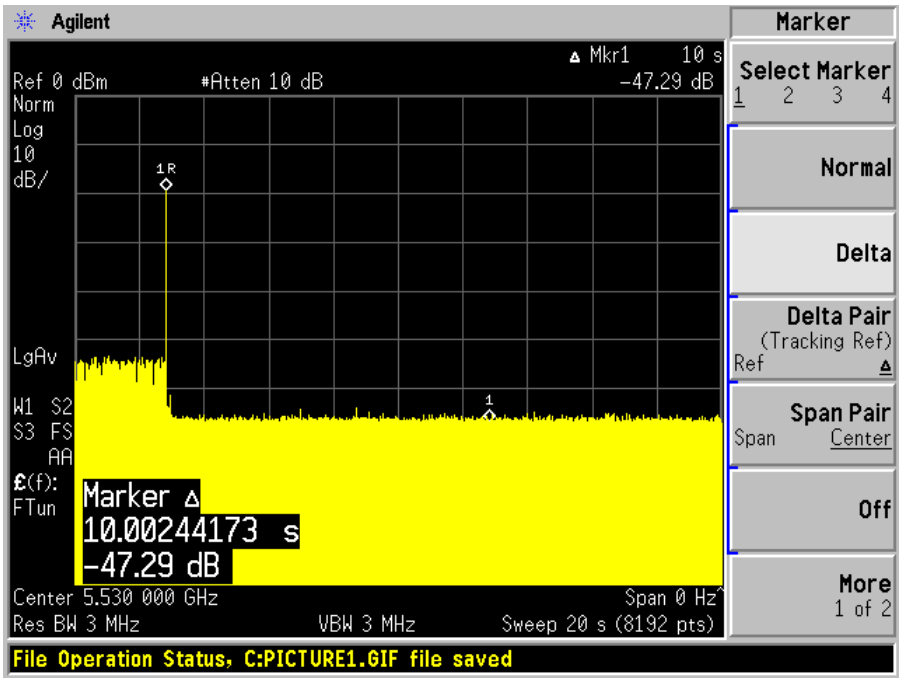
Type 5 radar channel move time result:

The traffic ceases at the end of the radar waveform, therefore it also ceases at 10 seconds after the end of the radar waveform.



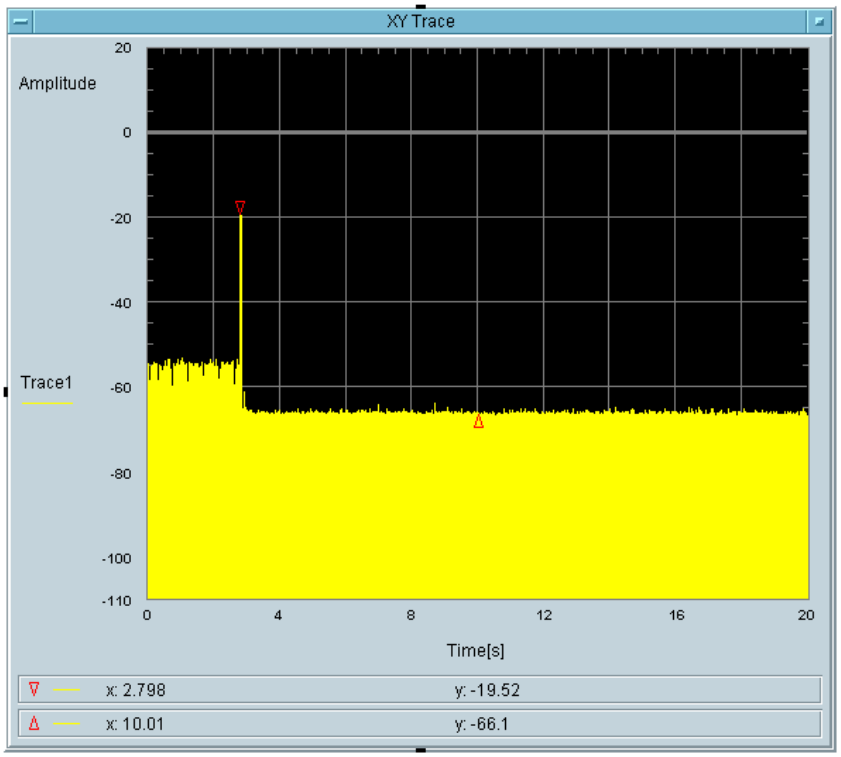
5530 MHz, Bandwidth 80 MHz

Type 0 radar channel move time result:



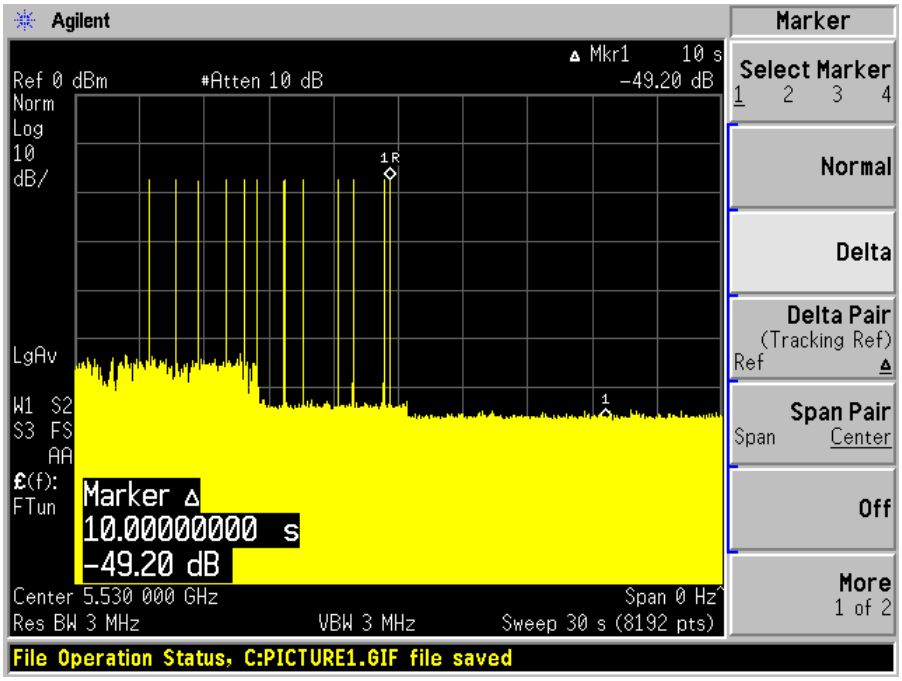
Type 0 radar channel closing transmission time result:

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5530	0	2.441 ms	200 ms	0 ms	60 ms	< 10 s	10 s



Type 5 radar channel move time result:

The traffic ceases at the end of the radar waveform, therefore it also ceases at 10 seconds after the end of the radar waveform.



8 Non-Occupancy Period

8.1 Test Procedure

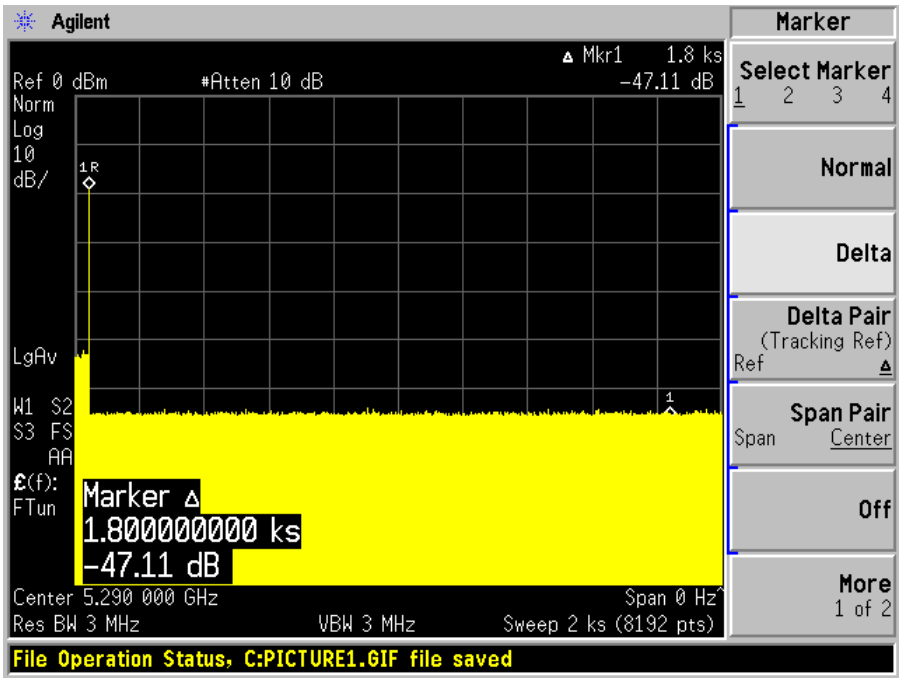
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

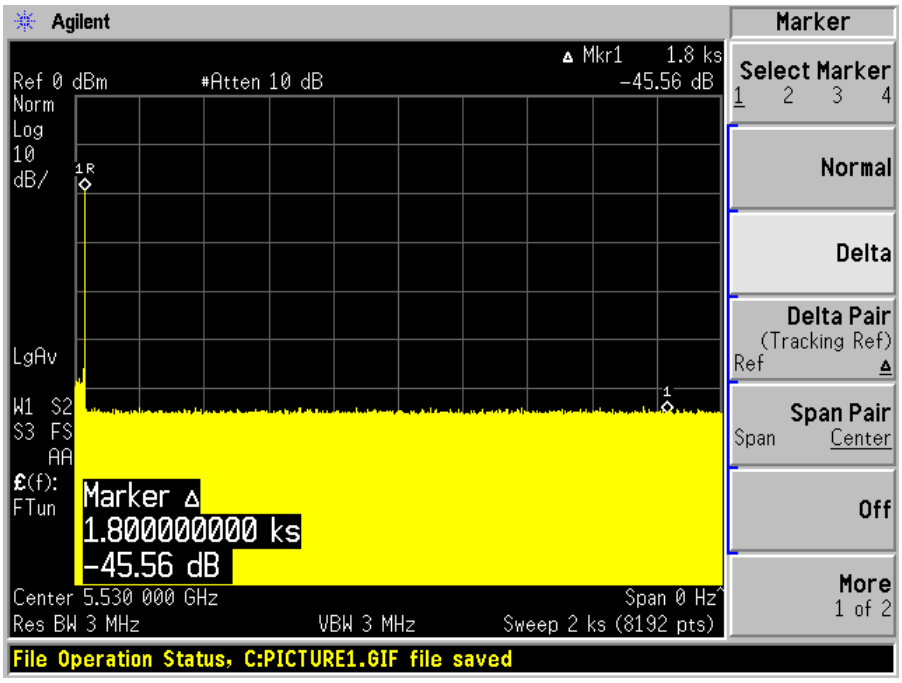
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

Please refer to the following plots.

5290 MHz, Bandwidth 80 MHz



5530 MHz, Bandwidth 80 MHz



9 Radar Detection Bandwidth & Radar Detection Performance Check

9.1 Detection Bandwidth

Procedure:

Performed with any one of the short pulse radar waveforms (type 1A, 1B, 2, 3 or 4)

Start with radar generator frequency set to the center of the channel (Fc)
Perform at least 10 trials and confirm at least 90% detected
Increment radar generator frequency by 5 MHz and repeat
Perform at least 10 trials and confirm at least 90% detected
Continue incrementing the radar frequency until detection rate falls below 90%

Starting at Fc -5 MHz, Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall.

F_L is the lowest frequency at which detection was 100% or better
F_H is the highest frequency at which detection was 100% or better

UNII Detection Bandwidth = $F_H - F_L$

Test Results

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5280	5270	5290	20	100%	Compliance
5580	5570	5590	20	100%	Compliance
5270	5250	5289	39	100%	Compliance
5550	5530	5569	39	100%	Compliance
5290	5250	5330	80	100%	Compliance
5530	5490	5570	80	100%	Compliance

Please refer to the following tables and plots.

Results of Detection Bandwidth:

EUT Frequency = 5280 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5269	0	0	0	0	0	0	0	0	0	0	0 %
5270(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5290-5270=20 MHz											
EUT 99% OBW = 16.5677 MHz; 16.5677 x 100% = 16.5677 MHz **Result:** Pass											

EUT Frequency = 5580 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5569	0	0	0	0	0	0	0	0	0	0	0 %
5570(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5580(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5590(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5591	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5590-5570=20 MHz											
EUT 99% OBW = 16.5741 MHz; 16.5741 x 100% = 16.5741 MHz **Result:** Pass											

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	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(Fc)	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 %
5289(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5290	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5289-5250=39 MHz											
EUT 99% OBW = 36.6241 MHz; 36.6241 x 100% = 36.6241 MHz **Result:** Pass											

EUT Frequency = 5550 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5429	0	0	0	0	0	0	0	0	0	0	0 %
5530(F_L)	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(Fc)	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 %
5569(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5570	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ =5569-5430=39 MHz											
EUT 99% OBW = 36.2547 MHz; 36.2547 x 100% = 36.2547 MHz **Result:** Pass											

EUT Frequency = 5290 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5331	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ =5330-5250=80 MHz											
EUT 99% OBW = 75.6574 MHz; 75.6574 x 100% = 75.6574 MHz **Result:** Pass											

EUT Frequency = 5530 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	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 (Fc)	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 %
5570(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5571	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ =5570–5490=80 MHz											
EUT 99% OBW =75.6214 MHz; 75.6214 x 100% = 75.6214 MHz **Result:** Pass											

9.2 Radar Detection Performance Check

Procedure:

Stream MPEG file from master to slave
Generate radar waveform
Record whether or not the waveform was detected
At least 30 trials are applied for each radar type
For radar types with randomized parameters, each trial uses a unique waveform
Perform with each of the radar types 1-6

Confirm that the detection rate for each radar type meets the minimum requirement
Type 1A&1B, 2, 3, 4: 60% each
Type 5: 80%
Type 6: 70%
Confirm that the mean of the rates for radar types 1 through 4 meets the requirement of 80%

$$\text{Detection Ratio} = \frac{\text{Total Waveform Detections}}{\text{Total Waveform Trials}} \times 100$$

Test Results:

5280 MHz, 20 MHz Bandwidth

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

Please refer to the following statistical tables:

5280 MHz, 20 MHz Bandwidth

Table-1A/1B Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	72	1	738	1
2	5280	63	1	838	1
3	5280	83	1	638	1
4	5280	95	1	558	1
5	5280	62	1	858	1
6	5280	61	1	878	1
7	5280	70	1	758	1
8	5280	59	1	898	1
9	5280	92	1	578	1
10	5280	58	1	918	1
11	5280	65	1	818	1
12	5280	57	1	938	1
13	5280	102	1	518	1
14	5280	18	1	3066	1
15	5280	76	1	698	1
16	5280	42	1	1264	1
17	5280	29	1	1833	1
18	5280	43	1	1233	1
19	5280	38	1	1406	1
20	5280	57	1	941	1
21	5280	37	1	1435	1
22	5280	35	1	1530	1
23	5280	87	1	609	1
24	5280	39	1	1354	1
25	5280	58	1	913	1
26	5280	23	1	2357	1
27	5280	27	1	2020	1
28	5280	36	1	1486	1
29	5280	36	1	1483	1
30	5280	36	1	1468	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	23	3.3	178	1
2	5280	26	1.7	165	1
3	5280	27	5	166	1
4	5280	29	2.4	185	1
5	5280	28	1	212	1
6	5280	27	2.6	161	1
7	5280	29	2.9	205	1
8	5280	23	1.6	216	1
9	5280	25	1.6	199	1
10	5280	29	5	177	1
11	5280	29	4.9	223	1
12	5280	23	4.2	198	1
13	5280	27	4.9	212	1
14	5280	24	1.1	151	1
15	5280	23	3.3	159	1
16	5280	25	2.7	199	1
17	5280	23	4.1	160	1
18	5280	26	4.2	216	1
19	5280	23	1.8	188	1
20	5280	28	4.6	206	1
21	5280	26	5	156	1
22	5280	27	2.5	211	1
23	5280	26	2.9	225	1
24	5280	27	1.3	157	1
25	5280	28	4	168	1
26	5280	23	2.3	208	1
27	5280	25	3.7	155	1
28	5280	25	2.5	166	1
29	5280	28	1.5	150	1
30	5280	23	3.9	214	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	17	7.2	247	1
2	5280	17	8.9	488	1
3	5280	16	7.6	230	1
4	5280	18	6.1	428	1
5	5280	17	9.8	268	1
6	5280	18	9.8	313	1
7	5280	16	6.1	363	1
8	5280	16	8.4	437	1
9	5280	16	6.1	291	1
10	5280	17	9	343	1
11	5280	18	9.7	332	1
12	5280	17	9	291	1
13	5280	18	8.1	428	1
14	5280	18	6	402	1
15	5280	18	6.9	222	1
16	5280	17	6.2	207	1
17	5280	16	7.5	279	1
18	5280	18	9.1	426	1
19	5280	17	7.7	300	1
20	5280	16	9.7	490	1
21	5280	16	6.2	460	1
22	5280	17	9	485	1
23	5280	17	9.3	209	1
24	5280	18	6.2	219	1
25	5280	17	7.3	442	1
26	5280	17	7.7	237	1
27	5280	16	8.2	452	1
28	5280	16	9.1	376	1
29	5280	18	7.1	466	1
30	5280	18	8.5	215	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	13	12.9	272	1
2	5280	15	16.8	351	1
3	5280	16	19.4	467	1
4	5280	13	16.4	436	1
5	5280	12	12.9	323	1
6	5280	15	13.4	418	1
7	5280	14	11.1	392	1
8	5280	16	11.3	471	1
9	5280	15	15.5	282	1
10	5280	13	15.2	238	1
11	5280	13	15.9	440	1
12	5280	14	17.3	465	1
13	5280	12	14.5	296	1
14	5280	15	13.5	481	1
15	5280	13	11.2	360	1
16	5280	15	12.2	364	1
17	5280	14	11.6	237	1
18	5280	13	17.8	344	1
19	5280	13	18.5	381	1
20	5280	13	13	416	1
21	5280	12	11.4	243	1
22	5280	15	12.1	243	1
23	5280	15	17.2	419	1
24	5280	16	13.2	492	1
25	5280	15	19.5	380	1
26	5280	14	14.6	409	1
27	5280	16	11.4	323	1
28	5280	15	11.2	302	1
29	5280	12	17.2	453	1
30	5280	12	16.9	279	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	70.2	1240		0.661988	
1	2	17	63.4	1619		2.299149	
2	2	10	80.2	1467		3.783998	
3	1	20	68.9			5.245133	
4	2	13	62.6	1231		5.808978	1
5	1	10	61.5			6.896465	
6	2	5	71.6	1102		8.322091	
7	2	14	56.2	1261		9.503125	
8	2	12	99.4	1524		11.815016	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	55.1			0.191759	
1	3	16	59.1	1257	1341	1.005113	
2	2	20	50.9	1228		1.290723	
3	2	9	68.8	1483		2.32873	
4	3	10	65.4	1896	1099	3.055421	
5	3	11	96.1	1454	1495	3.355673	
6	2	20	79.6	1386		3.963238	
7	1	18	98.6			4.442292	
8	2	14	87.2	1767		5.661533	
9	2	12	81.8	1512		6.072689	1
10	2	12	62.5	1791		6.85152	
11	2	10	67	1952		7.032482	
12	1	7	69.4			7.925264	
13	2	7	70.3	1631		8.814071	
14	2	20	75.6	1121		9.372202	
15	3	16	69.6	1547	1920	9.799897	
16	2	7	70.6	1741		10.39356	
17	3	9	72.4	1980	1518	11.229072	
18	2	17	83.5	1888		11.903181	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	66.9	1730	1785	0.704315	1
1	3	12	55.2	1676	1392	1.423904	
2	1	13	99.4			2.24374	
3	3	5	89.6	1632	1221	3.112457	
4	2	12	89.6	1957		3.831549	
5	2	6	75.8	1677		4.560467	
6	1	20	82.7			5.355578	
7	3	12	74.6	1287	1536	6.352845	
8	3	9	76	1878	1930	7.611789	
9	2	15	67.4	1581		8.357694	
10	3	14	98.6	1994	1694	8.712756	
11	3	9	72.6	1584	1786	9.89429	
12	2	17	91.5	1742		10.850733	
13	3	11	94	1175	1084	11.809682	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	99.9	1430	1825	0.433193	1
1	1	11	95.6			1.75319	
2	2	6	83.6	1833		2.455643	
3	2	11	96.2	1272		3.465523	
4	2	14	56	1195		4.468833	
5	2	10	91.5	1802		4.934497	
6	2	8	80	1997		5.721868	
7	2	14	95	1045		7.085415	
8	2	9	88.4	1881		8.028335	
9	1	12	72			8.74167	
10	2	13	81.9	1354		9.957292	
11	2	5	65.3	1384		10.575478	
12	2	16	63.6	1089		11.704324	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	87.4	1029	1835	0.300791	1
1	2	8	66.6	1896		1.658665	
2	1	6	94.5			2.531309	
3	3	6	61.8	1418	1288	3.492166	
4	1	6	82.4			4.273265	
5	1	9	83.9			5.936159	
6	3	17	52.4	1024	1780	6.816193	
7	1	15	54.7			7.678601	
8	2	17	67.3	1462		8.312308	
9	3	16	58.6	1555	1212	9.056774	
10	2	17	96.4	1879		10.190985	
11	3	13	63.5	1681	1515	11.661599	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	69			1.052774	1
1	2	9	75.9	1594		2.177042	
2	2	20	70.1	1144		2.999423	
3	2	11	53.6	1893		3.684531	
4	2	12	52.3	1704		4.931779	
5	2	11	58.3	1136		7.072343	
6	2	12	82.7	1382		8.01008	
7	1	13	74.5			9.210906	
8	3	19	75.1	1348	1060	9.830089	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	57.1	1708		0.971978	
1	2	17	73.1	1094		1.356525	
2	2	6	76.9	1593		3.581047	
3	2	8	57.3	1668		4.696106	
4	2	7	72.2	1887		6.212437	1
5	3	17	76.7	1477	1291	6.78432	
6	3	6	87.6	1654	1162	8.414886	
7	2	18	54.4	1499		10.101139	
8	2	10	55.4	1133		10.670286	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	81.1	1588		0.082803	
1	2	14	72.4	1515		1.240775	
2	2	11	65.3	1139		1.949766	
3	3	19	69.8	1371	1081	2.818034	
4	2	19	66.4	1146		3.5312	
5	2	7	71.3	1155		3.99258	
6	3	5	82.4	1982	1332	4.813932	
7	1	5	80.5			5.643255	
8	3	8	82.7	1014	1760	6.446326	1
9	2	9	65.8	1073		7.333143	
10	2	13	55	1191		8.204583	
11	3	7	68.2	1863	1468	8.70516	
12	3	17	69.9	1538	1566	9.489817	
13	2	14	50.6	1395		9.978707	
14	3	16	57.8	1587	1746	10.671071	
15	1	6	93.1			11.915916	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	88	1027		0.340385	1
1	2	13	75.1	1832		1.749197	
2	2	8	56.1	1680		2.421396	
3	3	9	93.7	1492	1159	3.946441	
4	1	7	85.1			4.42067	
5	2	19	99.6	1412		5.826855	
6	2	15	93	1181		6.759292	
7	1	14	91.9			7.156012	
8	3	11	85.4	1134	1060	8.386267	
9	3	14	50.6	1872	1209	9.448811	
10	3	17	99.1	1565	1494	10.868957	
11	3	10	70.5	1166	1358	11.959207	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	69.6	1746		0.276817	1
1	2	10	97.8	1460		1.508062	
2	2	11	64.2	1906		3.087171	
3	1	15	95.5			3.757899	
4	1	5	99.8			4.444818	
5	2	14	56.3	1884		6.499481	
6	2	18	86.2	1375		6.553261	
7	2	9	77.1	1836		8.080128	
8	3	19	67.7	1370	1971	9.025313	
9	1	18	64.5			10.417188	
10	2	20	80	1425		11.155493	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	97.2			1.041643	1
1	3	10	81.4	1238	1588	2.026953	
2	3	6	67.5	1685	1405	3.167435	
3	3	7	85.2	1687	1106	3.312076	
4	2	14	76.5	1858		4.63064	
5	2	12	68.2	1428		5.990491	
6	2	8	92.9	1283		6.54786	
7	1	17	93.2			8.052216	
8	1	13	63.6			8.856451	
9	3	17	74.6	1568	1128	10.270093	
10	2	18	60.6	1516		11.492409	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	94.1	1525	1557	0.206132	1
1	2	13	53.4	1332		1.447297	
2	3	9	69.2	1656	1682	1.753543	
3	2	10	77.8	1322		2.351424	
4	1	6	95			3.60541	
5	1	14	53.9			3.82234	
6	1	10	76			4.664892	
7	2	11	98.7	1531		5.698184	
8	2	7	76.4	1424		6.309436	
9	2	7	83.9	1643		7.202541	
10	1	10	56.7			7.798221	
11	2	6	75.9	1888		8.93645	
12	3	9	61.8	1314	1553	9.305468	
13	3	13	79.4	1271	1535	9.833842	
14	1	19	72.4			10.829759	
15	1	13	73.5			11.59945	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	57.4	1067	1824	0.378109	1
1	3	18	62.9	1688	1822	0.852178	
2	1	13	53.8			1.732693	
3	1	9	64.6			2.993652	
4	1	19	84.6			3.382788	
5	3	7	98.1	1526	1656	3.974427	
6	3	12	52.9	1529	1982	5.056949	
7	1	20	86.8			5.452943	
8	2	17	57.3	1383		6.439842	
9	1	6	55.1			6.840938	
10	3	16	61	1098	1586	7.793338	
11	2	12	80.4	1016		8.991588	
12	3	20	91.5	1416	1028	9.625801	
13	3	13	60.3	1770	1337	10.319072	
14	2	10	68.5	1478		10.937802	
15	2	19	55.2	1146		11.5534	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	76.6	1208		0.001443	0
1	3	5	63.8	1163	1675	1.433367	
2	3	8	97	1616	1688	1.684147	
3	2	10	53.4	1841		2.506752	
4	2	20	72.3	1198		3.586872	
5	2	16	80	1878		4.0206	
6	3	13	88.4	1871	1454	5.209824	
7	1	16	50.9			6.007381	
8	1	14	52.7			7.049577	
9	2	7	80.8	1361		7.496363	
10	3	7	90.7	1115	1082	8.104013	
11	2	12	77.3	1012		9.014434	
12	2	17	93.3	1401		10.053198	
13	1	10	79.7			10.61535	
14	3	14	51.8	1390	1928	11.460442	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	74.2	1285		0.837851	
1	1	10	73.1			2.550719	
2	3	5	67.8	1588	1002	3.591415	
3	1	20	56.1			5.185287	
4	1	13	78.1			5.701358	1
5	3	10	77.6	1032	1948	7.095558	
6	3	19	77.4	1278	1046	8.870395	
7	3	17	71.8	1356	1830	10.398741	
8	1	6	97.5			10.731046	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	94.2	1546		0.301514	
1	1	7	93.1			1.764239	
2	2	13	61.2	1785		2.718459	
3	3	14	86.8	1218	1706	3.773655	
4	2	19	55	1864		4.474037	
5	2	9	67	1904		5.699757	
6	1	5	84.8			6.642402	1
7	2	10	77.8	1115		7.284896	
8	2	8	62.2	1881		8.142813	
9	2	7	87.3	1749		9.768631	
10	2	12	83.2	1383		10.513992	
11	1	9	91.4			11.1595	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	77.7	1182		0.39486	1
1	3	10	64.7	1019	1533	1.648577	
2	1	6	91.3			2.448666	
3	2	16	63.8	1684		3.899934	
4	2	19	95.8	1436		4.88759	
5	3	10	80.3	1033	1590	6.0261	
6	3	16	73.2	1449	1405	7.620767	
7	1	8	60.3			9.536607	
8	2	13	72.7	1719		9.786838	
9	2	5	72.5	1569		10.838638	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	61.4	1510		0.275814	1
1	2	15	91.9	1903		1.187564	
2	2	15	93	1603		1.791969	
3	2	11	76	1725		2.345899	
4	2	18	72.8	1282		2.807642	
5	1	8	79.5			3.450711	
6	2	7	87.5	1717		3.700711	
7	1	15	70			4.474383	
8	2	16	89.9	1762		5.091848	
9	2	20	93.4	1791		5.969023	
10	3	11	63.5	1454	1945	6.435927	
11	3	8	88.7	1856	1575	7.046581	
12	2	17	51.1	1133		7.681107	
13	3	17	84.5	1559	1038	8.250223	
14	3	6	82.8	1921	1366	8.939137	
15	2	9	52.9	1084		9.48369	
16	2	6	82.2	1008		9.673474	
17	3	19	60.3	1353	1400	10.325885	
18	2	11	64.4	1053		10.977361	
19	2	9	54.5	1865		11.953242	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	78.2	1140	1997	0.190464	1
1	2	12	94.5	1549		1.261264	
2	2	11	71.3	1732		2.226714	
3	2	18	59.2	1008		2.801961	
4	2	19	62.5	1406		3.247293	
5	3	12	82.8	1744	1612	3.987651	
6	3	16	85.9	1746	1102	4.515639	
7	1	14	88.7			5.372913	
8	3	13	87.5	1202	1821	6.631893	
9	2	16	79.8	1208		7.239049	
10	2	12	91	1954		7.841652	
11	3	18	83.1	1396	1236	8.358461	
12	3	19	91.6	1865	1044	9.715927	
13	2	15	86.1	1905		10.087178	
14	3	14	92.6	1377	1745	10.927361	
15	2	17	74	1887		11.911038	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	53.5	1941		0.947372	1
1	2	14	70.1	1971		1.826101	
2	2	12	69.9	1404		3.849584	
3	2	18	59.3	1022		4.015651	
4	2	15	80.3	1279		5.840734	
5	2	11	54.5	1175		6.980568	
6	3	11	60.9	1885	1690	9.181295	
7	2	7	77	1734		9.466022	
8	1	13	69			11.853931	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	94.4	1849	1681	0.41991	1
1	3	8	58.9	1382	1768	1.134697	
2	1	18	64.9			1.59439	
3	2	7	64.8	1984		2.429404	
4	3	6	86	1576	1762	3.51537	
5	2	19	75.1	1646		4.455358	
6	2	15	56.5	1753		4.980701	
7	3	16	73.8	1797	1787	5.399657	
8	2	10	78.6	1398		6.557469	
9	2	17	69	1072		6.898037	
10	1	16	81.9			8.044809	
11	3	13	72.6	1646	1786	8.579769	
12	2	14	53.1	1384		9.45936	
13	2	6	95.5	1657		9.844524	
14	1	20	76.1			11.161107	
15	2	6	61.5	1098		11.321789	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	74.8	1080		0.876677	1
1	3	8	55.8	1591	1182	1.721138	
2	3	8	61	1300	1633	2.180633	
3	1	16	98.2			2.971571	
4	2	19	96.1	1512		4.077143	
5	2	12	95.1	1746		4.879241	
6	2	14	71.7	1444		5.999777	
7	1	14	70.9			7.059229	
8	3	6	67.1	1807	1548	8.028111	
9	2	20	98.1	1573		9.115931	
10	1	11	83.2			9.541346	
11	1	13	98.8			10.998395	
12	1	6	92.1			11.40907	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	69.8	1944		0.15102	0
1	1	14	63.9			1.932383	
2	3	16	72.2	1563	1216	2.690263	
3	2	6	75.2	1373		3.537782	
4	2	14	96.9	1223		4.626204	
5	2	13	82.9	1615		5.615862	
6	3	18	87.2	1993	1807	7.357709	
7	1	7	97.7			8.484621	
8	1	10	61.2			9.315582	
9	3	13	63.4	1397	1774	10.690858	
10	2	19	95.8	1309		11.430464	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	89.8	1520		0.109735	1
1	2	20	56	1227		1.874777	
2	2	15	55	1270		2.710996	
3	2	16	86.4	1416		3.051689	
4	1	17	71			4.001403	
5	1	18	62.7			5.642549	
6	3	6	57.9	1756	1380	6.735476	
7	1	20	95.1			7.238173	
8	2	7	77.5	1482		8.433512	
9	2	19	69.9	1093		9.777674	
10	3	20	71.1	1570	1903	10.43843	
11	2	19	54.8	1941		11.87972	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	53.8	1759		0.752259	
1	2	8	70.4	1027		1.981717	
2	2	5	56.1	1412		2.775191	
3	2	16	62.9	1547		4.705794	
4	3	5	99.6	1590	1671	5.660925	1
5	2	13	56.6	1448		7.804223	
6	2	8	53.4	1668		8.656508	
7	2	6	88.6	1932		9.564367	
8	2	6	58.6	1567		11.5935	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	79.1	1375	1108	0.84305	
1	1	16	65.7			1.470164	
2	1	12	89.7			2.41404	
3	2	16	78.7	1890		3.396022	
4	1	11	61.3			5.368584	
5	1	9	78.4			5.63391	1
6	2	8	63.7	1117		7.000084	
7	2	17	87.2	1941		8.299692	
8	3	14	71.5	1686	1910	9.264421	
9	2	16	59.6	1237		10.852133	
10	2	7	62.5	1477		11.124095	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	96.6	1268		0.683729	1
1	2	15	70.2	1102		0.921246	
2	1	16	88.8			2.018638	
3	3	7	59.3	1432	1837	2.766808	
4	2	14	94	1671		3.7159	
5	2	8	95.6	1558		4.189004	
6	2	7	75.5	1380		5.017661	
7	2	13	67.5	1345		5.805253	
8	2	8	60.3	1627		6.08243	
9	1	11	92.4			6.757577	
10	2	9	95.3	1837		7.926379	
11	2	19	98.4	1270		8.664512	
12	1	9	96			9.681221	
13	1	11	55.2			10.064028	
14	3	13	65.2	1579	1964	10.800381	
15	3	10	57	1779	1189	11.459708	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	56.1	1638		0.462158	1
1	3	17	93	1261	1289	2.129934	
2	1	18	90.2			3.129411	
3	2	17	89.5	1188		3.796321	
4	1	17	73.5			4.955599	
5	2	7	92.7	1163		6.595441	
6	3	15	73.6	1215	1499	7.665151	
7	1	19	86.9			8.926147	
8	2	11	91.8	1094		9.690846	
9	3	7	97	1717	1214	11.145646	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	93.4	1239		0.767919	1
1	2	19	54.7	1238		0.863603	
2	3	9	64.2	1025	1367	2.40853	
3	3	13	68.8	1838	1840	2.796376	
4	1	7	97.2			4.189814	
5	1	6	83.4			4.771576	
6	3	5	57	1975	1294	5.415149	
7	2	16	54.1	1879		6.543097	
8	3	7	61.1	1686	1223	7.150182	
9	2	14	74.3	1126		8.037568	
10	2	5	50.6	1384		9.147753	
11	1	13	76.8			9.912427	
12	2	20	69.5	1719		11.018833	
13	2	9	68.3	1822		11.645932	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	74			0.729093	1
1	2	20	74	1006		1.604744	
2	1	8	52.1			2.479441	
3	2	13	73.8	1341		3.395813	
4	3	16	67	1910	1851	3.472618	
5	1	15	93.8			4.490547	
6	3	13	63.4	1881	1412	5.463894	
7	2	6	73.3	1700		6.154153	
8	1	9	91.3			6.859807	
9	2	8	75	1672		8.216051	
10	1	11	88.2			9.163767	
11	1	12	88			10.205187	
12	3	6	83.6	1737	1027	10.664911	
13	2	7	86	1480		11.593856	

Table-6 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	5514.0, 5629.0, 5566.0, 5564.0, 5436.0, 5466.0, 5329.0, 5269.0, 5496.0, 5508.0, 5337.0, 5675.0, 5315.0, 5309.0, 5559.0, 5410.0, 5267.0, 5504.0, 5434.0, 5654.0, 5684.0, 5582.0, 5697.0, 5387.0, 5578.0, 5602.0, 5450.0, 5622.0, 5482.0, 5633.0, 5551.0, 5323.0, 5263.0, 5666.0, 5646.0, 5649.0, 5521.0, 5418.0, 5570.0, 5289.0, 5509.0, 5396.0, 5618.0, 5643.0, 5658.0, 5711.0, 5292.0, 5522.0, 5546.0, 5528.0, 5502.0, 5264.0, 5342.0, 5458.0, 5341.0, 5688.0, 5307.0, 5527.0, 5495.0, 5427.0, 5491.0, 5473.0, 5669.0, 5668.0, 5562.0, 5647.0, 5285.0, 5424.0, 5623.0, 5712.0, 5601.0, 5371.0, 5617.0, 5310.0, 5475.0, 5530.0, 5338.0, 5620.0, 5294.0, 5480.0, 5284.0, 5345.0, 5544.0, 5403.0, 5265.0, 5447.0, 5719.0, 5365.0, 5553.0, 5625.0, 5442.0, 5662.0, 5556.0, 5369.0, 5483.0, 5287.0, 5718.0, 5471.0, 5392.0, 5363.0 (number of hits: 8)
2	5280	9	1	333	1	5478.0, 5561.0, 5632.0, 5315.0, 5677.0, 5588.0, 5445.0, 5270.0, 5543.0, 5253.0, 5493.0, 5507.0, 5577.0, 5723.0, 5526.0, 5355.0, 5307.0, 5567.0, 5405.0, 5678.0, 5610.0, 5391.0, 5686.0, 5649.0, 5560.0, 5654.0, 5702.0, 5331.0, 5653.0, 5425.0, 5467.0, 5259.0, 5356.0, 5690.0, 5456.0, 5469.0, 5263.0, 5402.0, 5647.0, 5255.0, 5549.0, 5327.0, 5521.0, 5713.0, 5369.0, 5565.0, 5472.0, 5542.0, 5302.0, 5322.0, 5530.0, 5457.0, 5620.0, 5409.0, 5486.0, 5513.0, 5408.0, 5333.0, 5602.0, 5411.0, 5525.0, 5338.0, 5616.0, 5668.0, 5562.0, 5250.0, 5666.0, 5579.0, 5368.0, 5433.0, 5595.0, 5329.0, 5506.0, 5503.0, 5393.0, 5697.0, 5325.0, 5571.0, 5352.0, 5406.0, 5461.0, 5564.0, 5473.0, 5618.0, 5703.0, 5522.0, 5395.0, 5399.0, 5501.0, 5308.0, 5421.0, 5418.0, 5545.0, 5708.0, 5627.0, 5517.0, 5448.0, 5680.0, 5319.0, 5317.0 (number of hits: 3)
3	5280	9	1	333	1	5696.0, 5451.0, 5682.0, 5495.0, 5399.0, 5452.0, 5615.0, 5511.0, 5252.0, 5279.0, 5492.0, 5383.0, 5410.0, 5260.0, 5559.0, 5557.0, 5381.0, 5329.0, 5347.0, 5405.0, 5711.0, 5431.0, 5648.0, 5336.0, 5280.0, 5720.0, 5342.0, 5628.0, 5591.0, 5461.0, 5538.0, 5500.0, 5604.0, 5307.0, 5684.0, 5360.0, 5277.0, 5694.0, 5574.0, 5610.0, 5337.0, 5332.0, 5442.0, 5512.0, 5317.0, 5487.0, 5529.0, 5306.0, 5390.0, 5464.0, 5319.0, 5353.0, 5407.0, 5546.0, 5602.0, 5365.0, 5687.0, 5540.0, 5466.0, 5430.0,

						5397.0, 5257.0, 5564.0, 5689.0, 5315.0, 5586.0, 5447.0, 5501.0, 5489.0, 5361.0, 5646.0, 5613.0, 5258.0, 5416.0, 5363.0, 5705.0, 5308.0, 5402.0, 5526.0, 5714.0, 5638.0, 5685.0, 5555.0, 5622.0, 5385.0, 5606.0, 5358.0, 5313.0, 5649.0, 5266.0, 5351.0, 5380.0, 5295.0, 5513.0, 5703.0, 5435.0, 5584.0, 5408.0, 5620.0, 5674.0 (number of hits: 5)
4	5280	9	1	333	1	5380.0, 5545.0, 5281.0, 5719.0, 5714.0, 5291.0, 5294.0, 5518.0, 5487.0, 5613.0, 5396.0, 5251.0, 5323.0, 5565.0, 5433.0, 5631.0, 5514.0, 5447.0, 5690.0, 5561.0, 5637.0, 5283.0, 5385.0, 5439.0, 5388.0, 5721.0, 5590.0, 5625.0, 5428.0, 5258.0, 5432.0, 5636.0, 5391.0, 5254.0, 5480.0, 5377.0, 5340.0, 5329.0, 5688.0, 5538.0, 5278.0, 5368.0, 5588.0, 5313.0, 5406.0, 5605.0, 5288.0, 5650.0, 5544.0, 5540.0, 5387.0, 5533.0, 5491.0, 5600.0, 5563.0, 5477.0, 5620.0, 5634.0, 5295.0, 5429.0, 5484.0, 5371.0, 5528.0, 5495.0, 5365.0, 5475.0, 5430.0, 5427.0, 5285.0, 5338.0, 5431.0, 5284.0, 5403.0, 5326.0, 5581.0, 5310.0, 5585.0, 5418.0, 5534.0, 5673.0, 5341.0, 5587.0, 5343.0, 5558.0, 5659.0, 5305.0, 5693.0, 5584.0, 5709.0, 5577.0, 5492.0, 5522.0, 5503.0, 5665.0, 5409.0, 5408.0, 5450.0, 5485.0, 5511.0, 5425.0 (number of hits: 8)
5	5280	9	1	333	1	5680.0, 5612.0, 5322.0, 5487.0, 5312.0, 5512.0, 5321.0, 5597.0, 5337.0, 5402.0, 5606.0, 5583.0, 5309.0, 5283.0, 5263.0, 5376.0, 5424.0, 5718.0, 5437.0, 5353.0, 5299.0, 5268.0, 5651.0, 5646.0, 5484.0, 5666.0, 5398.0, 5470.0, 5456.0, 5522.0, 5685.0, 5260.0, 5270.0, 5365.0, 5662.0, 5621.0, 5478.0, 5699.0, 5554.0, 5467.0, 5388.0, 5419.0, 5638.0, 5256.0, 5455.0, 5501.0, 5587.0, 5415.0, 5519.0, 5372.0, 5300.0, 5667.0, 5357.0, 5579.0, 5676.0, 5530.0, 5679.0, 5381.0, 5537.0, 5356.0, 5393.0, 5506.0, 5284.0, 5497.0, 5336.0, 5498.0, 5610.0, 5633.0, 5545.0, 5271.0, 5327.0, 5635.0, 5668.0, 5449.0, 5588.0, 5385.0, 5657.0, 5540.0, 5295.0, 5665.0, 5625.0, 5417.0, 5330.0, 5632.0, 5575.0, 5251.0, 5562.0, 5614.0, 5687.0, 5705.0, 5505.0, 5703.0, 5479.0, 5446.0, 5509.0, 5535.0, 5425.0, 5264.0, 5503.0, 5434.0 (number of hits: 5)
6	5280	9	1	333	1	5462.0, 5623.0, 5347.0, 5723.0, 5711.0, 5481.0, 5709.0, 5410.0, 5696.0, 5588.0, 5638.0, 5484.0, 5254.0, 5661.0, 5535.0, 5669.0, 5406.0, 5365.0, 5503.0, 5412.0, 5687.0, 5454.0, 5350.0, 5327.0, 5345.0, 5609.0, 5622.0, 5257.0, 5666.0, 5724.0, 5658.0, 5675.0, 5296.0, 5581.0, 5716.0, 5676.0, 5492.0, 5432.0, 5606.0, 5379.0,

						5562.0, 5697.0, 5578.0, 5328.0, 5449.0, 5351.0, 5594.0, 5633.0, 5419.0, 5710.0, 5457.0, 5524.0, 5288.0, 5268.0, 5607.0, 5404.0, 5297.0, 5695.0, 5316.0, 5540.0, 5340.0, 5636.0, 5353.0, 5520.0, 5559.0, 5357.0, 5553.0, 5616.0, 5536.0, 5509.0, 5330.0, 5719.0, 5349.0, 5366.0, 5584.0, 5271.0, 5331.0, 5694.0, 5491.0, 5320.0, 5591.0, 5672.0, 5445.0, 5511.0, 5460.0, 5628.0, 5691.0, 5508.0, 5355.0, 5678.0, 5476.0, 5640.0, 5561.0, 5714.0, 5302.0, 5603.0, 5547.0, 5310.0, 5614.0, 5601.0 (number of hits: 5)
7	5280	9	1	333	1	5345.0, 5347.0, 5477.0, 5550.0, 5611.0, 5389.0, 5332.0, 5664.0, 5488.0, 5642.0, 5386.0, 5498.0, 5501.0, 5455.0, 5417.0, 5681.0, 5667.0, 5675.0, 5290.0, 5700.0, 5701.0, 5300.0, 5453.0, 5515.0, 5319.0, 5320.0, 5482.0, 5252.0, 5637.0, 5605.0, 5282.0, 5629.0, 5576.0, 5446.0, 5671.0, 5505.0, 5468.0, 5316.0, 5599.0, 5679.0, 5723.0, 5615.0, 5335.0, 5401.0, 5322.0, 5594.0, 5337.0, 5454.0, 5318.0, 5686.0, 5281.0, 5570.0, 5479.0, 5283.0, 5632.0, 5402.0, 5693.0, 5524.0, 5420.0, 5259.0, 5517.0, 5677.0, 5709.0, 5437.0, 5250.0, 5268.0, 5415.0, 5661.0, 5416.0, 5496.0, 5377.0, 5373.0, 5676.0, 5266.0, 5308.0, 5545.0, 5432.0, 5272.0, 5325.0, 5344.0, 5350.0, 5326.0, 5481.0, 5507.0, 5564.0, 5394.0, 5510.0, 5306.0, 5261.0, 5265.0, 5393.0, 5688.0, 5406.0, 5405.0, 5480.0, 5476.0, 5558.0, 5680.0, 5633.0, 5593.0 (number of hits: 4)
8	5280	9	1	333	1	5410.0, 5379.0, 5553.0, 5381.0, 5488.0, 5551.0, 5337.0, 5520.0, 5428.0, 5587.0, 5671.0, 5653.0, 5348.0, 5588.0, 5333.0, 5269.0, 5283.0, 5320.0, 5573.0, 5539.0, 5332.0, 5487.0, 5554.0, 5253.0, 5411.0, 5384.0, 5625.0, 5522.0, 5368.0, 5420.0, 5267.0, 5496.0, 5555.0, 5392.0, 5435.0, 5277.0, 5643.0, 5704.0, 5467.0, 5529.0, 5416.0, 5645.0, 5651.0, 5462.0, 5412.0, 5657.0, 5484.0, 5399.0, 5627.0, 5341.0, 5494.0, 5294.0, 5660.0, 5578.0, 5584.0, 5517.0, 5313.0, 5618.0, 5570.0, 5314.0, 5386.0, 5712.0, 5372.0, 5441.0, 5605.0, 5413.0, 5270.0, 5614.0, 5537.0, 5664.0, 5585.0, 5446.0, 5470.0, 5309.0, 5266.0, 5447.0, 5308.0, 5524.0, 5702.0, 5608.0, 5397.0, 5679.0, 5654.0, 5680.0, 5559.0, 5321.0, 5613.0, 5599.0, 5369.0, 5451.0, 5666.0, 5306.0, 5703.0, 5376.0, 5461.0, 5284.0, 5560.0, 5355.0, 5448.0, 5683.0 (number of hits: 6)
9	5280	9	1	333	1	5266.0, 5602.0, 5583.0, 5572.0, 5405.0, 5706.0, 5364.0, 5361.0, 5435.0, 5581.0, 5265.0, 5508.0, 5591.0, 5523.0, 5565.0, 5640.0, 5439.0, 5525.0, 5660.0, 5669.0,

						5510.0, 5646.0, 5702.0, 5369.0, 5656.0, 5256.0, 5551.0, 5653.0, 5282.0, 5703.0, 5544.0, 5365.0, 5558.0, 5690.0, 5609.0, 5712.0, 5532.0, 5589.0, 5638.0, 5584.0, 5537.0, 5661.0, 5600.0, 5590.0, 5285.0, 5442.0, 5352.0, 5641.0, 5483.0, 5689.0, 5530.0, 5502.0, 5566.0, 5540.0, 5636.0, 5650.0, 5308.0, 5555.0, 5659.0, 5338.0, 5707.0, 5634.0, 5542.0, 5385.0, 5331.0, 5612.0, 5485.0, 5395.0, 5554.0, 5517.0, 5268.0, 5339.0, 5535.0, 5281.0, 5576.0, 5458.0, 5258.0, 5300.0, 5580.0, 5490.0, 5460.0, 5303.0, 5370.0, 5719.0, 5683.0, 5350.0, 5327.0, 5260.0, 5664.0, 5478.0, 5411.0, 5598.0, 5547.0, 5270.0, 5417.0, 5382.0, 5388.0, 5648.0, 5401.0, 5563.0 (number of hits: 4)
10	5280	9	1	333	1	5643.0, 5565.0, 5694.0, 5588.0, 5413.0, 5503.0, 5436.0, 5336.0, 5519.0, 5496.0, 5547.0, 5314.0, 5564.0, 5569.0, 5257.0, 5423.0, 5716.0, 5308.0, 5481.0, 5700.0, 5435.0, 5607.0, 5404.0, 5448.0, 5298.0, 5628.0, 5527.0, 5299.0, 5450.0, 5432.0, 5516.0, 5356.0, 5327.0, 5670.0, 5307.0, 5604.0, 5615.0, 5477.0, 5512.0, 5286.0, 5325.0, 5540.0, 5252.0, 5355.0, 5708.0, 5409.0, 5614.0, 5658.0, 5313.0, 5634.0, 5346.0, 5447.0, 5438.0, 5392.0, 5711.0, 5415.0, 5570.0, 5696.0, 5282.0, 5539.0, 5294.0, 5319.0, 5591.0, 5575.0, 5471.0, 5572.0, 5426.0, 5458.0, 5485.0, 5350.0, 5625.0, 5402.0, 5260.0, 5262.0, 5431.0, 5524.0, 5430.0, 5479.0, 5609.0, 5291.0, 5272.0, 5331.0, 5437.0, 5364.0, 5390.0, 5599.0, 5276.0, 5492.0, 5610.0, 5633.0, 5453.0, 5439.0, 5391.0, 5556.0, 5465.0, 5636.0, 5550.0, 5381.0, 5425.0, 5498.0 (number of hits: 9)
11	5280	9	1	333	1	5419.0, 5650.0, 5369.0, 5583.0, 5444.0, 5591.0, 5420.0, 5545.0, 5502.0, 5524.0, 5406.0, 5321.0, 5714.0, 5563.0, 5547.0, 5561.0, 5622.0, 5472.0, 5552.0, 5361.0, 5713.0, 5364.0, 5592.0, 5505.0, 5491.0, 5261.0, 5710.0, 5508.0, 5517.0, 5458.0, 5675.0, 5280.0, 5490.0, 5340.0, 5479.0, 5482.0, 5652.0, 5722.0, 5667.0, 5649.0, 5328.0, 5470.0, 5582.0, 5569.0, 5711.0, 5605.0, 5689.0, 5428.0, 5411.0, 5699.0, 5534.0, 5468.0, 5651.0, 5718.0, 5451.0, 5396.0, 5486.0, 5453.0, 5495.0, 5412.0, 5255.0, 5300.0, 5348.0, 5493.0, 5661.0, 5721.0, 5466.0, 5644.0, 5712.0, 5629.0, 5344.0, 5709.0, 5690.0, 5410.0, 5669.0, 5257.0, 5556.0, 5333.0, 5378.0, 5516.0, 5578.0, 5417.0, 5604.0, 5566.0, 5290.0, 5530.0, 5399.0, 5693.0, 5662.0, 5349.0, 5281.0, 5392.0, 5316.0, 5446.0, 5452.0, 5345.0, 5695.0, 5350.0, 5402.0, 5388.0 (number of hits: 2)

12	5280	9	1	333	1	5329.0, 5584.0, 5431.0, 5596.0, 5433.0, 5324.0, 5377.0, 5703.0, 5331.0, 5526.0, 5644.0, 5701.0, 5681.0, 5285.0, 5443.0, 5439.0, 5602.0, 5469.0, 5549.0, 5401.0, 5536.0, 5500.0, 5639.0, 5307.0, 5554.0, 5259.0, 5337.0, 5466.0, 5354.0, 5704.0, 5534.0, 5509.0, 5717.0, 5595.0, 5683.0, 5567.0, 5684.0, 5323.0, 5292.0, 5472.0, 5255.0, 5592.0, 5565.0, 5405.0, 5486.0, 5533.0, 5253.0, 5585.0, 5364.0, 5314.0, 5260.0, 5663.0, 5296.0, 5414.0, 5289.0, 5560.0, 5562.0, 5654.0, 5583.0, 5700.0, 5373.0, 5391.0, 5365.0, 5531.0, 5408.0, 5291.0, 5263.0, 5437.0, 5528.0, 5361.0, 5661.0, 5319.0, 5334.0, 5303.0, 5504.0, 5340.0, 5322.0, 5652.0, 5640.0, 5670.0, 5616.0, 5326.0, 5623.0, 5626.0, 5356.0, 5606.0, 5695.0, 5550.0, 5520.0, 5369.0, 5366.0, 5280.0, 5542.0, 5622.0, 5457.0, 5686.0, 5446.0, 5697.0, 5348.0, 5427.0 (number of hits: 8)
13	5280	9	1	333	1	5496.0, 5469.0, 5577.0, 5475.0, 5527.0, 5349.0, 5610.0, 5420.0, 5531.0, 5396.0, 5361.0, 5405.0, 5367.0, 5539.0, 5626.0, 5362.0, 5637.0, 5377.0, 5505.0, 5586.0, 5415.0, 5658.0, 5524.0, 5403.0, 5317.0, 5602.0, 5472.0, 5376.0, 5501.0, 5595.0, 5293.0, 5401.0, 5409.0, 5494.0, 5578.0, 5251.0, 5588.0, 5484.0, 5679.0, 5574.0, 5712.0, 5299.0, 5481.0, 5255.0, 5375.0, 5509.0, 5664.0, 5272.0, 5707.0, 5600.0, 5576.0, 5274.0, 5307.0, 5467.0, 5655.0, 5552.0, 5422.0, 5713.0, 5414.0, 5551.0, 5580.0, 5526.0, 5596.0, 5300.0, 5656.0, 5689.0, 5260.0, 5457.0, 5284.0, 5411.0, 5631.0, 5598.0, 5340.0, 5538.0, 5594.0, 5353.0, 5581.0, 5670.0, 5320.0, 5512.0, 5677.0, 5645.0, 5627.0, 5428.0, 5629.0, 5388.0, 5341.0, 5695.0, 5665.0, 5425.0, 5354.0, 5544.0, 5437.0, 5561.0, 5395.0, 5721.0, 5386.0, 5363.0, 5424.0, 5393.0 (number of hits: 4)
14	5280	9	1	333	1	5573.0, 5414.0, 5478.0, 5439.0, 5701.0, 5428.0, 5337.0, 5354.0, 5619.0, 5702.0, 5663.0, 5644.0, 5476.0, 5449.0, 5451.0, 5484.0, 5700.0, 5387.0, 5558.0, 5348.0, 5646.0, 5660.0, 5565.0, 5344.0, 5442.0, 5253.0, 5498.0, 5653.0, 5576.0, 5677.0, 5399.0, 5621.0, 5309.0, 5360.0, 5300.0, 5575.0, 5356.0, 5290.0, 5716.0, 5509.0, 5351.0, 5547.0, 5502.0, 5551.0, 5642.0, 5275.0, 5338.0, 5258.0, 5667.0, 5280.0, 5347.0, 5675.0, 5584.0, 5648.0, 5376.0, 5641.0, 5334.0, 5680.0, 5656.0, 5537.0, 5493.0, 5608.0, 5468.0, 5268.0, 5446.0, 5364.0, 5607.0, 5529.0, 5495.0, 5343.0, 5488.0, 5289.0, 5652.0, 5266.0, 5526.0, 5433.0, 5455.0, 5624.0, 5566.0, 5605.0, 5413.0, 5311.0, 5475.0, 5538.0, 5506.0,

						5689.0, 5626.0, 5330.0, 5460.0, 5466.0, 5507.0, 5654.0, 5372.0, 5335.0, 5448.0, 5262.0, 5496.0, 5308.0, 5293.0, 5396.0 (number of hits: 7)
15	5280	9	1	333	1	5484.0, 5688.0, 5328.0, 5461.0, 5345.0, 5453.0, 5458.0, 5358.0, 5578.0, 5288.0, 5496.0, 5684.0, 5373.0, 5477.0, 5314.0, 5363.0, 5415.0, 5432.0, 5303.0, 5274.0, 5611.0, 5302.0, 5360.0, 5620.0, 5668.0, 5609.0, 5289.0, 5464.0, 5586.0, 5281.0, 5546.0, 5412.0, 5675.0, 5437.0, 5293.0, 5362.0, 5471.0, 5280.0, 5674.0, 5531.0, 5407.0, 5501.0, 5462.0, 5380.0, 5515.0, 5539.0, 5692.0, 5402.0, 5259.0, 5465.0, 5346.0, 5427.0, 5272.0, 5455.0, 5384.0, 5682.0, 5424.0, 5312.0, 5298.0, 5568.0, 5654.0, 5468.0, 5702.0, 5290.0, 5700.0, 5622.0, 5529.0, 5690.0, 5680.0, 5721.0, 5394.0, 5395.0, 5520.0, 5305.0, 5410.0, 5608.0, 5334.0, 5322.0, 5499.0, 5659.0, 5604.0, 5526.0, 5282.0, 5273.0, 5722.0, 5371.0, 5325.0, 5599.0, 5385.0, 5423.0, 5635.0, 5286.0, 5340.0, 5428.0, 5613.0, 5562.0, 5560.0, 5530.0, 5408.0, 5344.0 (number of hits: 11)
16	5280	9	1	333	1	5377.0, 5672.0, 5478.0, 5396.0, 5580.0, 5453.0, 5355.0, 5442.0, 5268.0, 5524.0, 5365.0, 5719.0, 5297.0, 5420.0, 5722.0, 5533.0, 5623.0, 5491.0, 5361.0, 5615.0, 5383.0, 5314.0, 5342.0, 5564.0, 5309.0, 5625.0, 5563.0, 5481.0, 5634.0, 5654.0, 5628.0, 5532.0, 5425.0, 5303.0, 5330.0, 5667.0, 5629.0, 5522.0, 5647.0, 5387.0, 5267.0, 5495.0, 5466.0, 5677.0, 5465.0, 5679.0, 5360.0, 5467.0, 5668.0, 5666.0, 5631.0, 5555.0, 5645.0, 5712.0, 5313.0, 5411.0, 5487.0, 5597.0, 5356.0, 5589.0, 5296.0, 5621.0, 5630.0, 5417.0, 5319.0, 5449.0, 5345.0, 5445.0, 5665.0, 5418.0, 5324.0, 5352.0, 5561.0, 5552.0, 5596.0, 5557.0, 5388.0, 5655.0, 5583.0, 5362.0, 5430.0, 5334.0, 5343.0, 5509.0, 5386.0, 5493.0, 5419.0, 5339.0, 5686.0, 5276.0, 5452.0, 5301.0, 5506.0, 5591.0, 5484.0, 5258.0, 5489.0, 5680.0, 5685.0, 5306.0 (number of hits: 8)
17	5280	9	1	333	1	5701.0, 5348.0, 5365.0, 5344.0, 5277.0, 5494.0, 5571.0, 5640.0, 5310.0, 5705.0, 5578.0, 5434.0, 5479.0, 5296.0, 5346.0, 5566.0, 5706.0, 5489.0, 5360.0, 5280.0, 5363.0, 5258.0, 5674.0, 5506.0, 5441.0, 5445.0, 5536.0, 5590.0, 5546.0, 5297.0, 5388.0, 5688.0, 5374.0, 5724.0, 5600.0, 5490.0, 5278.0, 5460.0, 5523.0, 5385.0, 5440.0, 5256.0, 5303.0, 5649.0, 5709.0, 5677.0, 5611.0, 5593.0, 5651.0, 5691.0, 5557.0, 5631.0, 5720.0, 5294.0, 5298.0, 5345.0, 5671.0, 5684.0, 5399.0, 5437.0, 5644.0, 5622.0, 5339.0, 5559.0, 5678.0,

						5455.0, 5683.0, 5647.0, 5584.0, 5517.0, 5387.0, 5451.0, 5602.0, 5685.0, 5253.0, 5301.0, 5711.0, 5290.0, 5689.0, 5621.0, 5477.0, 5653.0, 5500.0, 5586.0, 5369.0, 5391.0, 5575.0, 5561.0, 5439.0, 5549.0, 5333.0, 5715.0, 5679.0, 5518.0, 5488.0, 5503.0, 5340.0, 5707.0, 5569.0, 5662.0 (number of hits: 8)
18	5280	9	1	333	1	5659.0, 5657.0, 5667.0, 5369.0, 5375.0, 5633.0, 5604.0, 5445.0, 5470.0, 5281.0, 5456.0, 5468.0, 5650.0, 5332.0, 5344.0, 5643.0, 5496.0, 5459.0, 5251.0, 5704.0, 5410.0, 5404.0, 5596.0, 5301.0, 5436.0, 5609.0, 5329.0, 5561.0, 5685.0, 5398.0, 5501.0, 5453.0, 5385.0, 5302.0, 5267.0, 5700.0, 5606.0, 5681.0, 5719.0, 5309.0, 5277.0, 5684.0, 5268.0, 5545.0, 5293.0, 5428.0, 5615.0, 5315.0, 5282.0, 5427.0, 5706.0, 5292.0, 5342.0, 5529.0, 5262.0, 5412.0, 5380.0, 5720.0, 5487.0, 5689.0, 5644.0, 5576.0, 5261.0, 5594.0, 5433.0, 5399.0, 5547.0, 5506.0, 5260.0, 5465.0, 5555.0, 5588.0, 5613.0, 5400.0, 5443.0, 5484.0, 5676.0, 5546.0, 5359.0, 5482.0, 5635.0, 5279.0, 5357.0, 5679.0, 5620.0, 5592.0, 5573.0, 5702.0, 5533.0, 5461.0, 5532.0, 5475.0, 5574.0, 5354.0, 5586.0, 5639.0, 5306.0, 5383.0, 5294.0, 5360.0 (number of hits: 7)
19	5280	9	1	333	1	5390.0, 5696.0, 5396.0, 5655.0, 5356.0, 5575.0, 5641.0, 5482.0, 5406.0, 5523.0, 5376.0, 5338.0, 5632.0, 5267.0, 5295.0, 5434.0, 5579.0, 5545.0, 5285.0, 5362.0, 5576.0, 5444.0, 5487.0, 5705.0, 5404.0, 5320.0, 5351.0, 5619.0, 5377.0, 5479.0, 5693.0, 5308.0, 5512.0, 5417.0, 5439.0, 5271.0, 5716.0, 5509.0, 5611.0, 5543.0, 5287.0, 5688.0, 5402.0, 5602.0, 5544.0, 5410.0, 5646.0, 5461.0, 5719.0, 5280.0, 5502.0, 5617.0, 5489.0, 5446.0, 5294.0, 5353.0, 5583.0, 5621.0, 5423.0, 5316.0, 5702.0, 5650.0, 5605.0, 5508.0, 5651.0, 5574.0, 5519.0, 5373.0, 5325.0, 5457.0, 5562.0, 5454.0, 5357.0, 5647.0, 5501.0, 5571.0, 5555.0, 5273.0, 5453.0, 5319.0, 5437.0, 5483.0, 5572.0, 5343.0, 5458.0, 5658.0, 5701.0, 5365.0, 5318.0, 5708.0, 5532.0, 5485.0, 5469.0, 5255.0, 5514.0, 5528.0, 5341.0, 5504.0, 5416.0, 5713.0 (number of hits: 5)
20	5280	9	1	333	1	5353.0, 5702.0, 5673.0, 5536.0, 5703.0, 5685.0, 5468.0, 5456.0, 5505.0, 5525.0, 5438.0, 5458.0, 5380.0, 5541.0, 5531.0, 5425.0, 5348.0, 5263.0, 5281.0, 5709.0, 5708.0, 5303.0, 5451.0, 5487.0, 5421.0, 5422.0, 5340.0, 5508.0, 5372.0, 5723.0, 5480.0, 5283.0, 5721.0, 5268.0, 5522.0, 5404.0, 5638.0, 5511.0, 5360.0, 5642.0, 5466.0, 5338.0, 5520.0, 5567.0, 5687.0,

						5370.0, 5457.0, 5515.0, 5612.0, 5299.0, 5325.0, 5291.0, 5705.0, 5276.0, 5252.0, 5577.0, 5420.0, 5401.0, 5464.0, 5304.0, 5691.0, 5722.0, 5514.0, 5296.0, 5409.0, 5450.0, 5354.0, 5323.0, 5718.0, 5603.0, 5482.0, 5675.0, 5251.0, 5392.0, 5713.0, 5436.0, 5288.0, 5533.0, 5389.0, 5689.0, 5556.0, 5720.0, 5696.0, 5320.0, 5516.0, 5569.0, 5631.0, 5653.0, 5615.0, 5679.0, 5661.0, 5442.0, 5375.0, 5646.0, 5678.0, 5342.0, 5279.0, 5477.0, 5275.0, 5292.0 (number of hits: 7)
21	5280	9	1	333	1	5386.0, 5618.0, 5544.0, 5387.0, 5330.0, 5621.0, 5463.0, 5408.0, 5467.0, 5535.0, 5552.0, 5271.0, 5507.0, 5473.0, 5394.0, 5486.0, 5665.0, 5405.0, 5269.0, 5341.0, 5700.0, 5653.0, 5366.0, 5677.0, 5657.0, 5277.0, 5308.0, 5326.0, 5451.0, 5297.0, 5714.0, 5522.0, 5466.0, 5518.0, 5348.0, 5556.0, 5588.0, 5632.0, 5374.0, 5310.0, 5418.0, 5716.0, 5465.0, 5307.0, 5260.0, 5454.0, 5396.0, 5334.0, 5547.0, 5652.0, 5570.0, 5680.0, 5279.0, 5316.0, 5320.0, 5696.0, 5443.0, 5313.0, 5365.0, 5442.0, 5608.0, 5371.0, 5350.0, 5620.0, 5601.0, 5493.0, 5276.0, 5689.0, 5615.0, 5491.0, 5660.0, 5682.0, 5421.0, 5509.0, 5274.0, 5432.0, 5596.0, 5698.0, 5647.0, 5450.0, 5398.0, 5688.0, 5323.0, 5512.0, 5592.0, 5566.0, 5713.0, 5506.0, 5674.0, 5624.0, 5349.0, 5703.0, 5480.0, 5251.0, 5597.0, 5380.0, 5538.0, 5345.0, 5511.0, 5384.0 (number of hits: 5)
22	5280	9	1	333	1	5397.0, 5519.0, 5308.0, 5429.0, 5629.0, 5448.0, 5392.0, 5387.0, 5614.0, 5463.0, 5425.0, 5298.0, 5640.0, 5267.0, 5691.0, 5607.0, 5452.0, 5675.0, 5300.0, 5465.0, 5430.0, 5312.0, 5381.0, 5635.0, 5357.0, 5612.0, 5501.0, 5669.0, 5571.0, 5372.0, 5661.0, 5638.0, 5268.0, 5646.0, 5480.0, 5276.0, 5262.0, 5319.0, 5250.0, 5615.0, 5487.0, 5687.0, 5630.0, 5257.0, 5450.0, 5435.0, 5282.0, 5690.0, 5469.0, 5339.0, 5252.0, 5326.0, 5270.0, 5367.0, 5445.0, 5374.0, 5698.0, 5287.0, 5598.0, 5413.0, 5443.0, 5641.0, 5622.0, 5718.0, 5453.0, 5600.0, 5577.0, 5679.0, 5306.0, 5302.0, 5478.0, 5625.0, 5671.0, 5395.0, 5703.0, 5256.0, 5709.0, 5604.0, 5361.0, 5396.0, 5354.0, 5570.0, 5596.0, 5328.0, 5362.0, 5474.0, 5721.0, 5473.0, 5433.0, 5567.0, 5702.0, 5676.0, 5670.0, 5586.0, 5628.0, 5523.0, 5284.0, 5623.0, 5283.0, 5325.0 (number of hits: 7)
23	5280	9	1	333	1	5494.0, 5632.0, 5281.0, 5470.0, 5490.0, 5498.0, 5421.0, 5583.0, 5550.0, 5651.0, 5702.0, 5276.0, 5495.0, 5268.0, 5434.0, 5622.0, 5463.0, 5447.0, 5545.0, 5377.0, 5355.0, 5631.0, 5267.0, 5323.0, 5296.0,

						5352.0, 5315.0, 5431.0, 5600.0, 5333.0, 5398.0, 5371.0, 5577.0, 5513.0, 5611.0, 5396.0, 5258.0, 5691.0, 5526.0, 5449.0, 5349.0, 5496.0, 5328.0, 5681.0, 5304.0, 5446.0, 5688.0, 5384.0, 5635.0, 5710.0, 5373.0, 5648.0, 5312.0, 5299.0, 5535.0, 5270.0, 5411.0, 5252.0, 5343.0, 5473.0, 5489.0, 5485.0, 5555.0, 5552.0, 5525.0, 5642.0, 5330.0, 5325.0, 5275.0, 5585.0, 5543.0, 5441.0, 5367.0, 5408.0, 5413.0, 5338.0, 5462.0, 5262.0, 5562.0, 5662.0, 5620.0, 5340.0, 5370.0, 5251.0, 5341.0, 5400.0, 5302.0, 5504.0, 5652.0, 5546.0, 5672.0, 5518.0, 5454.0, 5483.0, 5426.0, 5345.0, 5273.0, 5596.0, 5503.0, 5359.0 (number of hits: 5)
24	5280	9	1	333	1	5326.0, 5580.0, 5456.0, 5530.0, 5648.0, 5475.0, 5657.0, 5553.0, 5480.0, 5585.0, 5411.0, 5328.0, 5334.0, 5393.0, 5382.0, 5659.0, 5567.0, 5558.0, 5320.0, 5544.0, 5303.0, 5688.0, 5336.0, 5500.0, 5319.0, 5685.0, 5317.0, 5712.0, 5655.0, 5402.0, 5650.0, 5682.0, 5501.0, 5588.0, 5427.0, 5405.0, 5287.0, 5709.0, 5647.0, 5450.0, 5472.0, 5355.0, 5310.0, 5702.0, 5527.0, 5656.0, 5395.0, 5329.0, 5615.0, 5358.0, 5340.0, 5669.0, 5570.0, 5533.0, 5373.0, 5424.0, 5353.0, 5606.0, 5497.0, 5379.0, 5575.0, 5568.0, 5609.0, 5460.0, 5514.0, 5562.0, 5348.0, 5275.0, 5454.0, 5357.0, 5363.0, 5601.0, 5566.0, 5524.0, 5706.0, 5305.0, 5708.0, 5537.0, 5293.0, 5251.0, 5491.0, 5407.0, 5508.0, 5587.0, 5385.0, 5701.0, 5653.0, 5447.0, 5455.0, 5610.0, 5661.0, 5354.0, 5592.0, 5667.0, 5489.0, 5269.0, 5555.0, 5513.0, 5696.0, 5375.0 (number of hits: 5)
25	5280	9	1	333	1	5547.0, 5270.0, 5466.0, 5407.0, 5709.0, 5710.0, 5523.0, 5343.0, 5580.0, 5630.0, 5539.0, 5353.0, 5566.0, 5701.0, 5268.0, 5586.0, 5404.0, 5266.0, 5415.0, 5549.0, 5640.0, 5684.0, 5596.0, 5293.0, 5715.0, 5254.0, 5387.0, 5641.0, 5320.0, 5491.0, 5482.0, 5648.0, 5583.0, 5500.0, 5716.0, 5414.0, 5449.0, 5453.0, 5406.0, 5544.0, 5351.0, 5412.0, 5669.0, 5376.0, 5251.0, 5381.0, 5465.0, 5330.0, 5331.0, 5606.0, 5705.0, 5397.0, 5602.0, 5714.0, 5652.0, 5303.0, 5487.0, 5421.0, 5275.0, 5533.0, 5665.0, 5255.0, 5440.0, 5712.0, 5646.0, 5428.0, 5259.0, 5686.0, 5439.0, 5340.0, 5257.0, 5564.0, 5557.0, 5653.0, 5576.0, 5409.0, 5480.0, 5423.0, 5361.0, 5437.0, 5488.0, 5495.0, 5308.0, 5472.0, 5316.0, 5713.0, 5526.0, 5511.0, 5535.0, 5382.0, 5388.0, 5462.0, 5604.0, 5357.0, 5676.0, 5478.0, 5620.0, 5704.0, 5552.0, 5527.0 (number of hits: 3)
26	5280	9	1	333	1	5358.0, 5597.0, 5370.0, 5420.0, 5511.0,

						5458.0, 5631.0, 5558.0, 5382.0, 5479.0, 5670.0, 5385.0, 5462.0, 5602.0, 5408.0, 5278.0, 5452.0, 5566.0, 5448.0, 5708.0, 5344.0, 5446.0, 5287.0, 5286.0, 5609.0, 5508.0, 5706.0, 5552.0, 5299.0, 5619.0, 5306.0, 5705.0, 5374.0, 5318.0, 5292.0, 5438.0, 5723.0, 5339.0, 5379.0, 5298.0, 5522.0, 5361.0, 5520.0, 5576.0, 5327.0, 5686.0, 5369.0, 5412.0, 5496.0, 5654.0, 5620.0, 5471.0, 5707.0, 5347.0, 5284.0, 5486.0, 5569.0, 5515.0, 5290.0, 5447.0, 5350.0, 5667.0, 5325.0, 5273.0, 5516.0, 5474.0, 5673.0, 5700.0, 5406.0, 5345.0, 5332.0, 5601.0, 5504.0, 5534.0, 5279.0, 5445.0, 5567.0, 5652.0, 5546.0, 5656.0, 5588.0, 5397.0, 5584.0, 5595.0, 5444.0, 5548.0, 5585.0, 5274.0, 5627.0, 5559.0, 5712.0, 5335.0, 5503.0, 5415.0, 5467.0, 5422.0, 5276.0, 5695.0, 5480.0, 5550.0 (number of hits: 7)
27	5280	9	1	333	1	5508.0, 5525.0, 5654.0, 5648.0, 5275.0, 5587.0, 5531.0, 5477.0, 5502.0, 5341.0, 5302.0, 5390.0, 5419.0, 5251.0, 5364.0, 5634.0, 5580.0, 5391.0, 5298.0, 5439.0, 5388.0, 5665.0, 5387.0, 5250.0, 5552.0, 5293.0, 5663.0, 5371.0, 5497.0, 5455.0, 5667.0, 5350.0, 5389.0, 5614.0, 5519.0, 5412.0, 5652.0, 5621.0, 5583.0, 5311.0, 5701.0, 5545.0, 5513.0, 5295.0, 5705.0, 5494.0, 5674.0, 5256.0, 5416.0, 5655.0, 5594.0, 5281.0, 5532.0, 5438.0, 5443.0, 5393.0, 5639.0, 5571.0, 5543.0, 5539.0, 5322.0, 5702.0, 5306.0, 5646.0, 5482.0, 5290.0, 5529.0, 5549.0, 5437.0, 5343.0, 5722.0, 5647.0, 5365.0, 5279.0, 5707.0, 5254.0, 5284.0, 5635.0, 5276.0, 5467.0, 5466.0, 5382.0, 5372.0, 5392.0, 5616.0, 5434.0, 5570.0, 5530.0, 5355.0, 5407.0, 5679.0, 5624.0, 5474.0, 5380.0, 5442.0, 5643.0, 5431.0, 5495.0, 5291.0, 5384.0 (number of hits: 8)
28	5280	9	1	333	1	5543.0, 5711.0, 5445.0, 5524.0, 5532.0, 5392.0, 5252.0, 5508.0, 5589.0, 5650.0, 5624.0, 5680.0, 5685.0, 5611.0, 5478.0, 5417.0, 5581.0, 5465.0, 5396.0, 5534.0, 5627.0, 5338.0, 5529.0, 5341.0, 5580.0, 5599.0, 5427.0, 5594.0, 5564.0, 5443.0, 5540.0, 5491.0, 5457.0, 5592.0, 5704.0, 5347.0, 5420.0, 5276.0, 5332.0, 5658.0, 5562.0, 5307.0, 5568.0, 5272.0, 5299.0, 5628.0, 5450.0, 5418.0, 5391.0, 5354.0, 5485.0, 5483.0, 5525.0, 5315.0, 5648.0, 5593.0, 5388.0, 5310.0, 5566.0, 5353.0, 5441.0, 5461.0, 5588.0, 5570.0, 5311.0, 5270.0, 5466.0, 5590.0, 5437.0, 5500.0, 5337.0, 5673.0, 5340.0, 5435.0, 5330.0, 5303.0, 5470.0, 5456.0, 5460.0, 5509.0, 5326.0, 5492.0, 5571.0, 5553.0, 5305.0, 5375.0, 5655.0, 5380.0, 5626.0, 5349.0,

						5614.0, 5414.0, 5603.0, 5423.0, 5601.0, 5362.0, 5721.0, 5381.0, 5683.0, 5649.0 (number of hits: 6)
29	5280	9	1	333	1	5284.0, 5478.0, 5549.0, 5527.0, 5417.0, 5266.0, 5405.0, 5298.0, 5625.0, 5351.0, 5281.0, 5307.0, 5519.0, 5474.0, 5452.0, 5606.0, 5292.0, 5516.0, 5617.0, 5385.0, 5539.0, 5568.0, 5421.0, 5659.0, 5436.0, 5495.0, 5461.0, 5531.0, 5719.0, 5695.0, 5419.0, 5498.0, 5462.0, 5453.0, 5485.0, 5671.0, 5471.0, 5455.0, 5400.0, 5285.0, 5487.0, 5597.0, 5293.0, 5651.0, 5464.0, 5704.0, 5291.0, 5708.0, 5346.0, 5551.0, 5429.0, 5259.0, 5607.0, 5399.0, 5433.0, 5662.0, 5675.0, 5566.0, 5689.0, 5357.0, 5420.0, 5645.0, 5406.0, 5685.0, 5449.0, 5313.0, 5637.0, 5264.0, 5627.0, 5652.0, 5623.0, 5509.0, 5299.0, 5699.0, 5548.0, 5698.0, 5569.0, 5636.0, 5274.0, 5484.0, 5562.0, 5370.0, 5718.0, 5668.0, 5639.0, 5533.0, 5367.0, 5448.0, 5276.0, 5311.0, 5366.0, 5403.0, 5570.0, 5653.0, 5279.0, 5700.0, 5391.0, 5375.0, 5497.0, 5332.0 (number of hits: 9)
30	5280	9	1	333	1	5714.0, 5485.0, 5316.0, 5540.0, 5701.0, 5255.0, 5584.0, 5290.0, 5478.0, 5577.0, 5686.0, 5542.0, 5496.0, 5494.0, 5443.0, 5299.0, 5504.0, 5711.0, 5266.0, 5376.0, 5473.0, 5366.0, 5539.0, 5683.0, 5518.0, 5570.0, 5464.0, 5408.0, 5613.0, 5434.0, 5593.0, 5486.0, 5545.0, 5479.0, 5313.0, 5620.0, 5525.0, 5721.0, 5690.0, 5342.0, 5329.0, 5490.0, 5449.0, 5636.0, 5441.0, 5523.0, 5480.0, 5559.0, 5526.0, 5468.0, 5388.0, 5482.0, 5624.0, 5305.0, 5553.0, 5380.0, 5457.0, 5269.0, 5421.0, 5527.0, 5337.0, 5580.0, 5335.0, 5311.0, 5267.0, 5359.0, 5681.0, 5262.0, 5276.0, 5675.0, 5323.0, 5581.0, 5549.0, 5678.0, 5707.0, 5357.0, 5389.0, 5306.0, 5483.0, 5395.0, 5488.0, 5442.0, 5645.0, 5284.0, 5663.0, 5489.0, 5363.0, 5303.0, 5679.0, 5423.0, 5693.0, 5574.0, 5713.0, 5466.0, 5364.0, 5324.0, 5643.0, 5379.0, 5370.0, 5386.0 (number of hits: 7)

5580 MHz, 20 MHz Bandwidth

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

Please refer to the following statistical tables:

5580 MHz, 20 MHz Bandwidth

Table-1A/1B Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	83	1	638	1
2	5580	67	1	798	1
3	5580	63	1	838	1
4	5580	70	1	758	1
5	5580	102	1	518	1
6	5580	68	1	778	1
7	5580	59	1	898	1
8	5580	81	1	658	1
9	5580	61	1	878	1
10	5580	62	1	858	1
11	5580	92	1	578	1
12	5580	95	1	558	1
13	5580	89	1	598	1
14	5580	58	1	918	1
15	5580	78	1	678	1
16	5580	65	1	821	1
17	5580	23	1	2336	1
18	5580	52	1	1034	1
19	5580	40	1	1344	1
20	5580	67	1	788	1
21	5580	58	1	923	1
22	5580	41	1	1299	1
23	5580	22	1	2451	1
24	5580	29	1	1856	1
25	5580	71	1	747	1
26	5580	43	1	1249	1
27	5580	19	1	2884	1
28	5580	18	1	3057	1
29	5580	22	1	2491	1
30	5580	19	1	2921	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	25	1.8	183	1
2	5580	24	1.9	217	1
3	5580	29	2.1	174	1
4	5580	27	4	219	1
5	5580	27	3.1	187	1
6	5580	26	2.7	187	1
7	5580	29	1.6	198	1
8	5580	29	3.2	171	1
9	5580	25	2.6	220	1
10	5580	24	1.7	181	1
11	5580	25	2.7	173	1
12	5580	27	3.3	163	1
13	5580	25	2.5	177	1
14	5580	25	1.8	215	1
15	5580	24	4.2	222	1
16	5580	25	3.6	202	1
17	5580	24	3.8	183	1
18	5580	29	2.6	190	1
19	5580	29	2	158	1
20	5580	27	1.7	212	1
21	5580	26	4.8	201	1
22	5580	25	5	211	1
23	5580	29	1.5	175	1
24	5580	23	1.9	159	1
25	5580	28	2.2	157	1
26	5580	25	1.4	189	1
27	5580	24	3.7	210	1
28	5580	27	1.1	206	1
29	5580	28	4.6	164	1
30	5580	26	1.3	168	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	17	7.3	321	1
2	5580	16	7.9	436	1
3	5580	16	6.7	326	1
4	5580	17	7.1	263	1
5	5580	18	8.8	440	1
6	5580	16	9.7	396	1
7	5580	18	6.4	472	1
8	5580	17	8.4	404	1
9	5580	17	9.7	312	1
10	5580	16	8.4	315	1
11	5580	18	8.9	500	1
12	5580	18	6.6	291	1
13	5580	18	6.4	217	1
14	5580	17	8.5	430	1
15	5580	17	6.8	311	1
16	5580	17	7.9	309	1
17	5580	18	6.6	430	1
18	5580	18	6.9	311	1
19	5580	18	7	309	1
20	5580	16	8.4	419	1
21	5580	18	8.2	339	1
22	5580	17	9.9	271	1
23	5580	16	8.6	329	1
24	5580	17	8.4	434	1
25	5580	16	10	246	1
26	5580	16	7.6	213	1
27	5580	18	7.1	361	1
28	5580	17	9.3	267	1
29	5580	17	9.1	230	1
30	5580	17	8.8	307	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	14	13.2	341	1
2	5580	13	17.2	346	1
3	5580	15	17.4	471	1
4	5580	13	18	242	1
5	5580	15	13.7	231	1
6	5580	12	15.6	458	1
7	5580	14	15.4	342	1
8	5580	13	12	295	1
9	5580	14	16.8	493	1
10	5580	16	16.8	434	1
11	5580	12	11.7	368	1
12	5580	12	19	225	1
13	5580	14	12.6	365	1
14	5580	12	15.4	300	1
15	5580	15	13.8	389	1
16	5580	14	17.7	471	1
17	5580	15	13.7	403	1
18	5580	12	15.9	394	1
19	5580	15	17.6	276	1
20	5580	16	17.4	474	1
21	5580	15	12.6	386	1
22	5580	14	15	296	1
23	5580	16	19.2	341	1
24	5580	16	13.1	476	1
25	5580	13	16.3	470	1
26	5580	16	14.9	409	1
27	5580	13	17.5	442	1
28	5580	12	17.7	459	1
29	5580	16	17.5	487	1
30	5580	15	14.2	380	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	73.1	1899		0.745701	1
1	2	12	69.9	1820		1.247585	
2	2	19	53	1946		2.37892	
3	3	14	52.1	1658	1532	2.930931	
4	1	6	78.9			3.673436	
5	3	19	92.5	1657	1900	4.98584	
6	1	17	71.5			5.212735	
7	2	10	58.2	1691		6.529307	
8	3	13	87.5	1674	1937	7.034256	
9	3	11	88.5	1412	1746	8.407367	
10	2	11	66.5	1171		9.305752	
11	2	8	60.2	1725		10.15024	
12	2	19	61	1144		10.425795	
13	1	18	72.2			11.863485	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	69.3	1830	1165	0.245575	1
1	1	14	93			0.898714	
2	2	20	63.1	1749		2.358508	
3	1	12	91.9			2.756042	
4	2	15	92.5	1718		3.595606	
5	2	16	88.9	1927		4.377408	
6	3	10	97.9	1204	1528	5.499771	
7	2	11	55.3	1398		6.379592	
8	1	12	78.2			6.943811	
9	1	12	61.9			7.465924	
10	3	14	51.3	1782	1262	8.50473	
11	2	8	72.1	1364		9.259839	
12	2	8	93.2	1165		10.385723	
13	2	11	70.9	1021		10.933767	
14	2	9	94.6	1324		11.888635	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	85.9	1709		0.081773	
1	2	16	95.2	1735		0.774325	
2	3	13	58.7	1880	1401	1.646314	
3	2	16	75.1	1674		2.495859	
4	2	7	71.6	1503		2.670845	
5	2	5	67.6	1213		3.188726	
6	2	6	69.1	1014		4.128608	
7	2	8	60	1262		4.490713	
8	3	20	75.5	1370	1167	5.617769	
9	3	15	80.2	1239	1716	5.804529	1
10	2	14	79.1	1283		6.818918	
11	1	15	84.2			7.270502	
12	2	11	73.4	1837		8.135967	
13	1	19	72.2			8.375627	
14	2	14	78	1284		9.000758	
15	2	18	98.4	1656		9.582162	
16	3	20	76.6	1831	1407	10.361816	
17	1	16	91.2			11.222353	
18	1	5	96.3			11.499692	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	64.3			0.937766	
1	2	7	83.7	1677		1.272035	
2	1	16	70.3			2.619967	
3	3	18	92.6	1698	1298	4.268401	
4	2	18	95.7	1322		5.356322	
5	1	15	66.7			7.034603	1
6	3	14	57.5	1416	1524	8.11326	
7	3	17	77.6	1324	1364	8.939244	
8	2	10	53.2	1320		9.710217	
9	3	16	70.9	1195	1982	11.633758	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	86.7	1343	1013	0.231033	
1	2	16	88.8	1560		1.219823	
2	2	19	92.2	1061		1.859401	
3	1	13	65.1			2.339215	
4	1	6	73.8			2.946443	
5	3	15	97.1	1927	1461	4.058571	
6	2	6	51.8	1815		4.236445	
7	2	19	96.2	1699		5.233221	
8	2	9	79.6	1187		6.010966	1
9	2	10	56.6	1364		6.819526	
10	2	10	92.3	1314		7.494403	
11	3	10	59.1	1299	1529	8.074676	
12	3	15	79.6	1435	1809	9.131519	
13	2	9	61.8	1182		9.56551	
14	2	19	95.1	1261		10.50185	
15	3	10	59.2	1603	1413	11.28342	
16	3	11	97	1053	1598	11.40818	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	98.8			0.032573	
1	1	10	95.8			1.242811	
2	3	8	93.5	1217	1554	1.773979	
3	3	9	71	1210	1035	2.775144	
4	2	14	94.1	1917		3.66205	
5	2	16	93	1137		4.064669	
6	1	19	57			5.138873	
7	2	10	57.6	1254		5.90232	
8	1	11	85.8			6.032805	1
9	1	10	73.3			7.200174	
10	1	9	51.8			8.05337	
11	1	11	91.8			8.557826	
12	2	13	71	1342		9.695512	
13	3	20	83.3	1610	1584	10.20257	
14	3	15	97.5	1543	1268	11.118012	
15	3	13	73.7	1262	1058	11.787426	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	61.7	1528		0.1272	1
1	3	17	84	1165	1705	1.921328	
2	2	8	77.9	1951		2.406734	
3	3	16	87.4	1988	1651	3.216278	
4	2	10	82.6	1016		4.344479	
5	1	17	93.9			5.329756	
6	2	18	89.3	1479		6.782725	
7	3	20	99.8	1014	1829	7.639332	
8	3	12	79.7	1783	1417	8.932484	
9	3	12	70.7	1214	1474	9.518299	
10	1	19	74.2			10.898553	
11	2	15	60.3	1837		11.659026	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	90.7	1559	1453	0.062925	1
1	2	10	99.2	1165		1.385087	
2	2	17	84.9	1421		3.666668	
3	2	18	83.7	1676		5.055818	
4	2	7	91.7	1376		6.27205	
5	1	9	80.2			7.301404	
6	3	15	76.3	1740	1582	8.960512	
7	2	9	64.6	1470		9.525542	
8	2	16	59.7	1942		11.70547	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	80.9	1944		0.715181	1
1	2	17	63.3	1789		1.913645	
2	3	18	85.8	1129	1163	2.853911	
3	2	19	62.5	1232		4.374831	
4	2	15	53.5	1309		4.965866	
5	2	14	84.9	1986		6.08686	
6	1	8	95.9			8.265166	
7	2	13	86.4	1683		8.887386	
8	1	14	52			9.742628	
9	2	17	94.1	1843		11.946601	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	69.6	1746		0.276817	1
1	2	10	97.8	1460		1.508062	
2	2	11	64.2	1906		3.087171	
3	1	15	95.5			3.757899	
4	1	5	99.8			4.444818	
5	2	14	56.3	1884		6.499481	
6	2	18	86.2	1375		6.553261	
7	2	9	77.1	1836		8.080128	
8	3	19	67.7	1370	1971	9.025313	
9	1	18	64.5			10.417188	
10	2	20	80	1425		11.155493	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	97.2			1.041643	
1	3	10	81.4	1238	1588	2.026953	
2	3	6	67.5	1685	1405	3.167435	
3	3	7	85.2	1687	1106	3.312076	
4	2	14	76.5	1858		4.63064	
5	2	12	68.2	1428		5.990491	1
6	2	8	92.9	1283		6.54786	
7	1	17	93.2			8.052216	
8	1	13	63.6			8.856451	
9	3	17	74.6	1568	1128	10.270093	
10	2	18	60.6	1516		11.492409	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	78.1	1819	1378	0.041926	
1	1	8	56.8			0.847788	
2	3	19	99.2	1474	1899	1.398285	
3	2	17	85.2	1947		2.253846	
4	2	10	51.5	1185		3.050502	
5	2	5	94.8	1737		3.343694	
6	2	8	69.3	1761		3.810729	
7	2	12	82.4	1868		4.461982	
8	2	18	83.2	1603		5.553945	
9	1	7	92.8			6.252221	1
10	2	18	80.7	1866		6.590053	
11	2	13	77.9	1252		6.997321	
12	2	19	74.8	1818		8.084062	
13	2	14	95.5	1063		8.805994	
14	3	11	79.8	1652	1755	9.321523	
15	2	15	86.6	1232		9.96807	
16	1	19	60.8			10.445755	
17	3	14	50.8	1488	1021	10.871973	
18	3	15	76.3	1395	1112	11.552815	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	54.3			0.826109	1
1	2	15	60.2	1762		1.267815	
2	2	15	81.9	1950		2.732078	
3	1	10	77.2			3.455386	
4	2	8	64.5	1420		4.464242	
5	2	8	97.1	1996		5.23871	
6	2	18	61.5	1293		5.750073	
7	3	15	83.1	1401	1198	7.099889	
8	3	14	76	1743	1474	7.718048	
9	2	7	80.3	1072		9.138712	
10	2	6	69.3	1564		9.866402	
11	2	12	88.5	1132		10.350945	
12	1	11	94.1			11.538633	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	99.8	1787	1882	0.870607	0
1	1	20	66.1			1.830513	
2	1	18	87.7			2.923885	
3	3	7	65.3	1410	1155	3.656289	
4	1	15	74.7			5.090932	
5	1	15	67			6.34601	
6	1	8	90.7			6.625585	
7	1	11	72.7			8.000636	
8	2	7	62	1577		8.77763	
9	2	14	50	1858		10.880919	
10	2	8	89	1638		11.510303	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	74.2	1285		0.837851	
1	1	10	73.1			2.550719	
2	3	5	67.8	1588	1002	3.591415	
3	1	20	56.1			5.185287	
4	1	13	78.1			5.701358	1
5	3	10	77.6	1032	1948	7.095558	
6	3	19	77.4	1278	1046	8.870395	
7	3	17	71.8	1356	1830	10.398741	
8	1	6	97.5			10.731046	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	65.7	1880		0.125998	
1	2	7	57	1922		0.971319	
2	1	18	61.9			1.791267	
3	2	15	62.6	1200		2.240021	
4	2	18	74.5	1384		3.267704	
5	1	16	60.1			3.692976	
6	2	17	79.4	1557		4.141969	
7	2	17	84.9	1006		5.149504	
8	1	15	51.5			5.912397	
9	2	5	95.5	1080		6.46287	1
10	1	14	81.2			6.764896	
11	3	7	96.5	1591	1860	7.371851	
12	1	9	99.6			8.23143	
13	1	8	59.8			8.80807	
14	2	6	63.7	1910		9.429904	
15	3	20	63.1	1605	1308	10.39509	
16	2	5	51.6	1842		10.673609	
17	3	14	77.9	1858	1138	11.820355	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	97.7	1311		0.136763	
1	1	6	91.9			1.215052	
2	2	9	88	1654		1.889228	
3	1	7	71.5			2.846435	
4	1	8	69.1			3.205006	
5	2	16	88.2	1808		4.316038	
6	3	17	92	1334	1022	5.314139	
7	1	17	65.4			6.082912	1
8	3	19	61.2	1932	1418	6.904018	
9	3	13	73.9	1741	1565	7.838489	
10	2	15	86.4	1967		8.142201	
11	1	5	69.6			9.229231	
12	1	16	62.2			9.626503	
13	1	11	76.7			10.602386	
14	3	6	71.2	1972	1544	11.809334	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	95.8	1553		0.863851	
1	2	6	92.1	1961		1.760995	
2	1	19	60.7			3.373232	
3	2	12	74.2	1387		4.690681	
4	3	12	70.9	1029	1581	6.377916	1
5	2	6	84.8	1970		7.132636	
6	1	10	90.2			8.777801	
7	1	18	96.3			9.619827	
8	2	9	63.4	1822		11.664576	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	88.6	1006	1287	0.046681	1
1	2	11	80.2	1316		2.00524	
2	2	5	68.5	1687		3.058206	
3	1	6	58.4			4.157471	
4	2	14	70.1	1613		5.116283	
5	2	14	75.9	1926		5.580207	
6	2	5	65.2	1352		7.272175	
7	3	18	70.8	1315	1756	8.563198	
8	2	19	65.7	1509		8.902047	
9	3	8	79.4	1428	1805	10.631196	
10	2	14	72.6	1483		10.981701	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	96.2	1446		0.374316	1
1	1	7	92			2.711875	
2	2	6	84.1	1787		3.633009	
3	2	11	80.7	1381		4.867127	
4	3	8	77.6	1320	1790	6.75467	
5	1	14	95.7			8.420789	
6	2	6	88.9	1091		9.82637	
7	3	19	65.9	1250	1203	10.705972	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	53.2	1314		0.367588	
1	3	16	68.5	1526	1758	0.797463	
2	2	7	90.9	1723		1.810529	
3	3	15	70.8	1200	1235	2.157963	
4	2	5	66.5	1363		2.779613	
5	3	13	66	1491	1623	3.175705	
6	2	6	71	1251		4.280514	
7	2	18	84.5	1411		4.554	
8	1	8	89			5.166766	
9	3	8	56.8	1042	1998	5.940467	1
10	1	15	77.7			6.551834	
11	2	18	60.7	1274		7.47376	
12	2	19	70.2	1579		8.02259	
13	3	7	94.9	1533	1166	8.770365	
14	1	19	84.6			9.242586	
15	3	14	79.1	1721	1103	9.619727	
16	3	14	82.6	1131	1868	10.657925	
17	1	13	84.7			10.834139	
18	1	16	63.4			11.885142	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	91.9	1085		0.529953	1
1	2	19	90.9	1474		1.267597	
2	2	20	65.8	1012		1.829414	
3	3	13	93.5	1456	1642	2.510573	
4	2	18	88.6	1211		2.900869	
5	1	7	55			3.953502	
6	2	10	72.8	1750		4.265536	
7	1	20	79.1			5.143407	
8	3	18	52.7	1696	1978	5.600833	
9	1	17	86.2			6.369428	
10	3	6	89.7	1704	1217	6.972932	
11	1	6	98.2			7.706124	
12	1	8	60.1			8.46528	
13	3	12	88.5	1238	1960	8.962176	
14	1	18	82.4			9.894753	
15	3	7	85.6	1482	1765	10.213593	
16	2	18	90.6	1197		11.301701	
17	2	18	54.1	1522		11.65739	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	69.8	1944		0.15102	0
1	1	14	63.9			1.932383	
2	3	16	72.2	1563	1216	2.690263	
3	2	6	75.2	1373		3.537782	
4	2	14	96.9	1223		4.626204	
5	2	13	82.9	1615		5.615862	
6	3	18	87.2	1993	1807	7.357709	
7	1	7	97.7			8.484621	
8	1	10	61.2			9.315582	
9	3	13	63.4	1397	1774	10.690858	
10	2	19	95.8	1309		11.430464	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	91.1	1676		0.046693	
1	2	9	90.6	1442		1.429928	
2	2	6	95	1335		2.082467	
3	2	15	70.7	1768		2.676306	
4	3	5	89.7	1359	1624	3.029286	
5	2	5	71.6	1139		4.008053	
6	1	6	93.6			4.749533	
7	1	13	74.3			5.269784	1
8	1	7	99.4			6.697538	
9	2	18	97.8	1081		7.188258	
10	1	7	88.4			7.792571	
11	1	6	65			8.536303	
12	3	18	52.6	1030	1317	9.641136	
13	3	7	59.6	1131	1782	10.16451	
14	2	14	94	1162		10.88412	
15	2	6	73.5	1916		11.447664	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	59.3			1.010218	
1	3	15	56.6	1997	1034	1.14292	
2	2	12	94.3	1659		3.240218	
3	2	19	59.4	1348		3.339891	
4	2	16	87.9	1604		4.431832	
5	3	17	77.2	1453	1093	6.485866	1
6	2	12	83.5	1225		7.127516	
7	2	9	58.2	1146		8.189789	
8	3	17	86.8	1798	1497	8.984102	
9	1	17	74.1			10.304086	
10	2	9	91	1060		11.947225	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	81.2	1221		0.475051	
1	2	11	98.5	1250		1.151602	
2	2	11	74.6	1595		1.296504	
3	2	18	53.9	1784		2.022023	
4	2	18	64.6	1029		2.693909	
5	2	13	83	1196		3.60848	
6	2	14	73.7	1996		4.346143	
7	2	12	60.8	1055		5.010924	
8	2	7	67	1401		5.673331	
9	1	15	86.7			6.141552	1
10	3	7	61.2	1969	1446	6.798343	
11	2	10	98.9	1527		7.522197	
12	3	11	81.1	1363	1369	7.962691	
13	3	19	76.1	1566	1571	8.728826	
14	3	11	88.4	1485	1628	9.180923	
15	2	18	94.2	1360		9.782692	
16	3	9	85.6	1935	1343	10.128952	
17	2	8	81.6	1285		11.147447	
18	1	12	91.4			11.573452	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	72.5	1983		1.056426	
1	2	19	51.5	1185		1.281837	
2	3	17	55.8	1242	1841	3.152619	
3	3	12	96.9	1240	1071	4.419189	
4	2	13	92.6	1084		5.123488	1
5	2	14	69.9	1139		6.643947	
6	2	11	67.4	1154		7.230866	
7	2	9	60	1791		9.196194	
8	1	6	55.6			10.260553	
9	1	7	58.4			11.286442	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	56.1	1638		0.462158	1
1	3	17	93	1261	1289	2.129934	
2	1	18	90.2			3.129411	
3	2	17	89.5	1188		3.796321	
4	1	17	73.5			4.955599	
5	2	7	92.7	1163		6.595441	
6	3	15	73.6	1215	1499	7.665151	
7	1	19	86.9			8.926147	
8	2	11	91.8	1094		9.690846	
9	3	7	97	1717	1214	11.145646	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	64.4	1783		0.527848	1
1	2	18	98.1	1601		1.101057	
2	3	13	80.2	1990	1897	1.989915	
3	2	16	50.8	1427		2.681049	
4	2	7	93.1	1145		4.059973	
5	1	19	58.5			4.667824	
6	1	7	89.2			5.389762	
7	2	6	60.4	1927		6.118259	
8	1	14	66.7			7.431016	
9	3	11	96.5	1519	1221	7.834921	
10	2	7	79.9	1718		8.606674	
11	2	5	59.4	1853		9.759031	
12	2	16	86.8	1309		10.774119	
13	2	7	84	1063		11.900584	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	74.6	1516		0.746928	
1	1	7	95.6			1.268787	
2	1	6	87.6			2.091494	
3	3	15	76	1119	1896	3.078518	
4	2	19	82.7	1652		3.821541	
5	2	13	67.4	1369		4.165707	
6	3	10	96.1	1333	1315	5.576979	
7	1	13	77.4			6.268207	1
8	1	8	95.9			6.471319	
9	1	15	79.7			7.712378	
10	3	19	93.1	1198	1229	8.437279	
11	3	7	66.9	1585	1503	9.380947	
12	2	10	84.1	1774		10.13884	
13	2	17	66.2	1654		10.899544	
14	1	7	81.9			11.700725	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5580	9	1	333	1	5568.0, 5668.0, 5689.0, 5720.0, 5424.0, 5418.0, 5262.0, 5509.0, 5550.0, 5492.0, 5665.0, 5584.0, 5635.0, 5664.0, 5533.0, 5713.0, 5465.0, 5526.0, 5425.0, 5683.0, 5588.0, 5560.0, 5460.0, 5310.0, 5362.0, 5309.0, 5673.0, 5715.0, 5676.0, 5496.0, 5283.0, 5637.0, 5718.0, 5556.0, 5545.0, 5272.0, 5474.0, 5709.0, 5518.0, 5442.0, 5329.0, 5385.0, 5404.0, 5282.0, 5396.0, 5615.0, 5311.0, 5692.0, 5567.0, 5397.0, 5295.0, 5453.0, 5334.0, 5531.0, 5622.0, 5592.0, 5645.0, 5586.0, 5367.0, 5536.0, 5666.0, 5527.0, 5490.0, 5652.0, 5259.0, 5343.0, 5383.0, 5611.0, 5318.0, 5596.0, 5700.0, 5349.0, 5458.0, 5659.0, 5285.0, 5551.0, 5529.0, 5644.0, 5597.0, 5528.0, 5603.0, 5602.0, 5573.0, 5537.0, 5498.0, 5257.0, 5595.0, 5501.0, 5710.0, 5446.0, 5558.0, 5286.0, 5657.0, 5524.0, 5473.0, 5577.0, 5582.0, 5292.0, 5412.0, 5554.0 (number of hits: 7)
2	5580	9	1	333	1	5327.0, 5536.0, 5573.0, 5607.0, 5347.0, 5583.0, 5420.0, 5576.0, 5255.0, 5254.0, 5341.0, 5650.0, 5415.0, 5438.0, 5443.0, 5520.0, 5716.0, 5477.0, 5715.0, 5528.0, 5433.0, 5410.0, 5350.0, 5723.0, 5699.0, 5435.0, 5501.0, 5446.0, 5525.0, 5409.0, 5587.0, 5456.0, 5711.0, 5567.0, 5261.0, 5640.0, 5510.0, 5620.0, 5631.0, 5594.0, 5586.0, 5281.0, 5481.0, 5522.0, 5669.0, 5615.0, 5527.0, 5346.0, 5311.0, 5709.0, 5507.0, 5395.0, 5565.0, 5278.0, 5252.0, 5439.0, 5282.0, 5722.0, 5625.0, 5378.0, 5553.0, 5406.0, 5668.0, 5397.0, 5515.0, 5708.0, 5696.0, 5475.0, 5454.0, 5569.0, 5691.0, 5622.0, 5353.0, 5638.0, 5678.0, 5599.0, 5448.0, 5418.0, 5647.0, 5602.0, 5654.0, 5502.0, 5523.0, 5407.0, 5707.0, 5710.0, 5314.0, 5364.0, 5293.0, 5495.0, 5354.0, 5633.0, 5422.0, 5496.0, 5358.0, 5704.0, 5375.0, 5382.0, 5558.0, 5372.0 (number of hits: 3)
3	5580	9	1	333	1	5537.0, 5634.0, 5261.0, 5474.0, 5488.0, 5687.0, 5310.0, 5391.0, 5637.0, 5366.0, 5480.0, 5489.0, 5587.0, 5267.0, 5653.0, 5626.0, 5500.0, 5538.0, 5535.0, 5532.0, 5501.0, 5269.0, 5291.0, 5714.0, 5325.0, 5689.0, 5636.0, 5645.0, 5560.0, 5361.0, 5485.0, 5259.0, 5318.0, 5415.0, 5536.0, 5647.0, 5571.0, 5358.0, 5635.0, 5354.0, 5428.0, 5421.0, 5627.0, 5431.0, 5296.0, 5570.0, 5290.0, 5316.0, 5469.0, 5659.0, 5349.0, 5436.0, 5668.0, 5314.0, 5297.0, 5697.0, 5367.0, 5707.0, 5542.0, 5498.0,

						5392.0, 5598.0, 5680.0, 5414.0, 5422.0, 5353.0, 5321.0, 5336.0, 5278.0, 5258.0, 5439.0, 5312.0, 5524.0, 5430.0, 5253.0, 5541.0, 5549.0, 5678.0, 5578.0, 5450.0, 5364.0, 5504.0, 5251.0, 5386.0, 5682.0, 5599.0, 5593.0, 5567.0, 5583.0, 5456.0, 5685.0, 5553.0, 5690.0, 5702.0, 5522.0, 5605.0, 5608.0, 5708.0, 5579.0, 5617.0 (number of hits: 7)
4	5580	9	1	333	1	5603.0, 5721.0, 5253.0, 5532.0, 5450.0, 5367.0, 5544.0, 5588.0, 5407.0, 5502.0, 5701.0, 5617.0, 5437.0, 5465.0, 5337.0, 5449.0, 5350.0, 5470.0, 5598.0, 5552.0, 5535.0, 5620.0, 5490.0, 5402.0, 5563.0, 5363.0, 5536.0, 5630.0, 5343.0, 5527.0, 5411.0, 5496.0, 5640.0, 5429.0, 5472.0, 5678.0, 5586.0, 5443.0, 5406.0, 5401.0, 5445.0, 5299.0, 5428.0, 5608.0, 5394.0, 5364.0, 5700.0, 5330.0, 5587.0, 5425.0, 5602.0, 5292.0, 5609.0, 5405.0, 5545.0, 5492.0, 5670.0, 5352.0, 5537.0, 5569.0, 5400.0, 5543.0, 5316.0, 5358.0, 5580.0, 5551.0, 5546.0, 5573.0, 5577.0, 5631.0, 5278.0, 5418.0, 5534.0, 5387.0, 5582.0, 5365.0, 5383.0, 5610.0, 5270.0, 5526.0, 5435.0, 5284.0, 5494.0, 5296.0, 5568.0, 5654.0, 5548.0, 5625.0, 5471.0, 5497.0, 5318.0, 5647.0, 5528.0, 5361.0, 5579.0, 5488.0, 5612.0, 5646.0, 5305.0, 5595.0 (number of hits: 4)
5	5580	9	1	333	1	5653.0, 5606.0, 5414.0, 5649.0, 5594.0, 5533.0, 5494.0, 5464.0, 5364.0, 5588.0, 5497.0, 5447.0, 5538.0, 5281.0, 5578.0, 5328.0, 5296.0, 5441.0, 5664.0, 5423.0, 5503.0, 5331.0, 5654.0, 5710.0, 5632.0, 5482.0, 5599.0, 5705.0, 5420.0, 5670.0, 5421.0, 5517.0, 5693.0, 5251.0, 5253.0, 5521.0, 5344.0, 5450.0, 5598.0, 5389.0, 5307.0, 5580.0, 5531.0, 5708.0, 5647.0, 5528.0, 5326.0, 5667.0, 5415.0, 5408.0, 5322.0, 5259.0, 5611.0, 5448.0, 5678.0, 5617.0, 5306.0, 5620.0, 5586.0, 5592.0, 5492.0, 5359.0, 5276.0, 5312.0, 5345.0, 5547.0, 5275.0, 5556.0, 5661.0, 5451.0, 5723.0, 5446.0, 5342.0, 5711.0, 5382.0, 5367.0, 5318.0, 5615.0, 5375.0, 5709.0, 5662.0, 5679.0, 5277.0, 5461.0, 5378.0, 5445.0, 5437.0, 5433.0, 5719.0, 5530.0, 5565.0, 5550.0, 5603.0, 5564.0, 5558.0, 5330.0, 5520.0, 5614.0, 5272.0, 5619.0 (number of hits: 4)
6	5580	9	1	333	1	5412.0, 5357.0, 5378.0, 5385.0, 5672.0, 5398.0, 5251.0, 5664.0, 5330.0, 5311.0, 5593.0, 5384.0, 5708.0, 5343.0, 5671.0, 5602.0, 5694.0, 5431.0, 5700.0, 5404.0, 5447.0, 5650.0, 5432.0, 5591.0, 5569.0, 5458.0, 5557.0, 5463.0, 5264.0, 5322.0, 5308.0, 5696.0, 5552.0, 5414.0, 5340.0, 5719.0, 5421.0, 5315.0, 5716.0, 5350.0,

						5470.0, 5346.0, 5688.0, 5718.0, 5622.0, 5415.0, 5476.0, 5501.0, 5422.0, 5353.0, 5633.0, 5462.0, 5326.0, 5411.0, 5372.0, 5605.0, 5345.0, 5512.0, 5609.0, 5278.0, 5711.0, 5496.0, 5524.0, 5433.0, 5631.0, 5309.0, 5320.0, 5467.0, 5589.0, 5301.0, 5634.0, 5328.0, 5698.0, 5413.0, 5514.0, 5389.0, 5506.0, 5648.0, 5293.0, 5587.0, 5595.0, 5271.0, 5581.0, 5457.0, 5586.0, 5621.0, 5516.0, 5275.0, 5675.0, 5478.0, 5661.0, 5678.0, 5575.0, 5423.0, 5651.0, 5503.0, 5497.0, 5375.0, 5280.0, 5547.0 (number of hits: 5)
7	5580	9	1	333	1	5265.0, 5516.0, 5608.0, 5466.0, 5686.0, 5577.0, 5292.0, 5405.0, 5545.0, 5550.0, 5537.0, 5335.0, 5486.0, 5379.0, 5639.0, 5426.0, 5269.0, 5346.0, 5635.0, 5274.0, 5331.0, 5582.0, 5533.0, 5457.0, 5647.0, 5627.0, 5605.0, 5334.0, 5476.0, 5465.0, 5706.0, 5401.0, 5271.0, 5272.0, 5277.0, 5585.0, 5337.0, 5275.0, 5573.0, 5359.0, 5603.0, 5513.0, 5394.0, 5360.0, 5591.0, 5697.0, 5719.0, 5553.0, 5460.0, 5343.0, 5390.0, 5564.0, 5395.0, 5643.0, 5640.0, 5376.0, 5409.0, 5389.0, 5497.0, 5407.0, 5295.0, 5446.0, 5362.0, 5278.0, 5569.0, 5253.0, 5358.0, 5698.0, 5722.0, 5344.0, 5534.0, 5371.0, 5420.0, 5442.0, 5561.0, 5423.0, 5546.0, 5388.0, 5264.0, 5663.0, 5408.0, 5259.0, 5258.0, 5438.0, 5266.0, 5566.0, 5443.0, 5517.0, 5370.0, 5515.0, 5291.0, 5597.0, 5709.0, 5308.0, 5683.0, 5617.0, 5263.0, 5700.0, 5583.0, 5372.0 (number of hits: 4)
8	5580	9	1	333	1	5492.0, 5499.0, 5631.0, 5366.0, 5599.0, 5717.0, 5373.0, 5503.0, 5597.0, 5442.0, 5468.0, 5583.0, 5581.0, 5264.0, 5572.0, 5375.0, 5290.0, 5605.0, 5555.0, 5322.0, 5682.0, 5554.0, 5607.0, 5498.0, 5454.0, 5616.0, 5483.0, 5594.0, 5477.0, 5692.0, 5406.0, 5722.0, 5700.0, 5347.0, 5561.0, 5311.0, 5538.0, 5721.0, 5411.0, 5671.0, 5295.0, 5263.0, 5382.0, 5447.0, 5402.0, 5299.0, 5691.0, 5678.0, 5693.0, 5639.0, 5488.0, 5285.0, 5705.0, 5510.0, 5646.0, 5414.0, 5525.0, 5412.0, 5358.0, 5710.0, 5410.0, 5504.0, 5334.0, 5688.0, 5642.0, 5519.0, 5521.0, 5588.0, 5345.0, 5344.0, 5283.0, 5543.0, 5303.0, 5333.0, 5496.0, 5396.0, 5349.0, 5644.0, 5293.0, 5585.0, 5637.0, 5318.0, 5341.0, 5312.0, 5470.0, 5522.0, 5627.0, 5567.0, 5308.0, 5622.0, 5653.0, 5686.0, 5559.0, 5512.0, 5348.0, 5297.0, 5601.0, 5272.0, 5357.0, 5489.0 (number of hits: 10)
9	5580	9	1	333	1	5429.0, 5585.0, 5719.0, 5632.0, 5335.0, 5413.0, 5379.0, 5496.0, 5445.0, 5256.0, 5623.0, 5539.0, 5645.0, 5648.0, 5649.0, 5641.0, 5449.0, 5455.0, 5333.0, 5480.0,

						5503.0, 5635.0, 5553.0, 5699.0, 5683.0, 5712.0, 5385.0, 5473.0, 5442.0, 5569.0, 5622.0, 5478.0, 5444.0, 5426.0, 5402.0, 5259.0, 5456.0, 5516.0, 5352.0, 5659.0, 5709.0, 5530.0, 5258.0, 5331.0, 5483.0, 5484.0, 5523.0, 5511.0, 5661.0, 5325.0, 5286.0, 5373.0, 5439.0, 5482.0, 5701.0, 5696.0, 5420.0, 5303.0, 5313.0, 5343.0, 5467.0, 5269.0, 5697.0, 5308.0, 5587.0, 5401.0, 5518.0, 5311.0, 5360.0, 5263.0, 5608.0, 5461.0, 5384.0, 5462.0, 5527.0, 5620.0, 5408.0, 5416.0, 5458.0, 5651.0, 5380.0, 5422.0, 5582.0, 5578.0, 5579.0, 5260.0, 5268.0, 5315.0, 5274.0, 5323.0, 5499.0, 5548.0, 5361.0, 5319.0, 5586.0, 5665.0, 5556.0, 5257.0, 5627.0, 5547.0 (number of hits: 5)
10	5580	9	1	333	1	5569.0, 5436.0, 5355.0, 5426.0, 5647.0, 5290.0, 5502.0, 5412.0, 5625.0, 5652.0, 5451.0, 5344.0, 5361.0, 5351.0, 5349.0, 5530.0, 5313.0, 5644.0, 5720.0, 5363.0, 5372.0, 5575.0, 5531.0, 5465.0, 5284.0, 5589.0, 5406.0, 5627.0, 5631.0, 5651.0, 5649.0, 5544.0, 5643.0, 5296.0, 5606.0, 5670.0, 5279.0, 5513.0, 5496.0, 5703.0, 5588.0, 5638.0, 5510.0, 5535.0, 5528.0, 5690.0, 5612.0, 5594.0, 5404.0, 5529.0, 5292.0, 5306.0, 5515.0, 5366.0, 5573.0, 5373.0, 5548.0, 5715.0, 5332.0, 5299.0, 5460.0, 5495.0, 5640.0, 5331.0, 5334.0, 5395.0, 5447.0, 5345.0, 5586.0, 5596.0, 5466.0, 5676.0, 5614.0, 5696.0, 5446.0, 5330.0, 5354.0, 5516.0, 5318.0, 5409.0, 5484.0, 5397.0, 5582.0, 5541.0, 5380.0, 5508.0, 5519.0, 5491.0, 5358.0, 5315.0, 5615.0, 5439.0, 5503.0, 5697.0, 5567.0, 5574.0, 5468.0, 5645.0, 5552.0, 5455.0 (number of hits: 6)
11	5580	9	1	333	1	5500.0, 5391.0, 5639.0, 5422.0, 5520.0, 5654.0, 5290.0, 5265.0, 5612.0, 5513.0, 5310.0, 5545.0, 5368.0, 5488.0, 5392.0, 5416.0, 5358.0, 5462.0, 5472.0, 5618.0, 5492.0, 5423.0, 5403.0, 5697.0, 5660.0, 5364.0, 5289.0, 5301.0, 5395.0, 5250.0, 5655.0, 5352.0, 5638.0, 5340.0, 5253.0, 5457.0, 5337.0, 5317.0, 5446.0, 5281.0, 5685.0, 5449.0, 5553.0, 5435.0, 5459.0, 5442.0, 5321.0, 5619.0, 5479.0, 5652.0, 5603.0, 5384.0, 5574.0, 5285.0, 5714.0, 5440.0, 5294.0, 5509.0, 5284.0, 5715.0, 5693.0, 5361.0, 5604.0, 5362.0, 5254.0, 5718.0, 5676.0, 5562.0, 5534.0, 5511.0, 5431.0, 5642.0, 5543.0, 5568.0, 5497.0, 5720.0, 5706.0, 5375.0, 5465.0, 5723.0, 5381.0, 5269.0, 5376.0, 5554.0, 5597.0, 5542.0, 5420.0, 5399.0, 5377.0, 5495.0, 5582.0, 5390.0, 5264.0, 5564.0, 5641.0, 5695.0, 5342.0, 5447.0, 5659.0, 5716.0 (number of hits: 6)

12	5580	9	1	333	1	5332.0, 5574.0, 5664.0, 5456.0, 5520.0, 5424.0, 5401.0, 5443.0, 5339.0, 5480.0, 5365.0, 5370.0, 5710.0, 5381.0, 5251.0, 5500.0, 5338.0, 5286.0, 5593.0, 5716.0, 5337.0, 5405.0, 5493.0, 5282.0, 5675.0, 5557.0, 5435.0, 5361.0, 5564.0, 5462.0, 5314.0, 5324.0, 5643.0, 5724.0, 5629.0, 5255.0, 5257.0, 5504.0, 5580.0, 5341.0, 5430.0, 5482.0, 5679.0, 5271.0, 5364.0, 5410.0, 5644.0, 5709.0, 5609.0, 5545.0, 5445.0, 5372.0, 5512.0, 5534.0, 5630.0, 5620.0, 5367.0, 5594.0, 5285.0, 5668.0, 5357.0, 5538.0, 5509.0, 5399.0, 5471.0, 5486.0, 5485.0, 5377.0, 5469.0, 5689.0, 5585.0, 5306.0, 5478.0, 5279.0, 5627.0, 5378.0, 5677.0, 5604.0, 5577.0, 5330.0, 5622.0, 5553.0, 5546.0, 5274.0, 5721.0, 5267.0, 5437.0, 5695.0, 5523.0, 5576.0, 5457.0, 5268.0, 5560.0, 5634.0, 5693.0, 5432.0, 5681.0, 5578.0, 5638.0, 5603.0 (number of hits: 4)
13	5580	9	1	333	1	5299.0, 5714.0, 5452.0, 5462.0, 5691.0, 5608.0, 5401.0, 5673.0, 5398.0, 5385.0, 5624.0, 5523.0, 5352.0, 5301.0, 5493.0, 5364.0, 5323.0, 5361.0, 5664.0, 5503.0, 5620.0, 5528.0, 5514.0, 5449.0, 5561.0, 5463.0, 5571.0, 5565.0, 5373.0, 5688.0, 5288.0, 5692.0, 5370.0, 5678.0, 5254.0, 5255.0, 5374.0, 5280.0, 5481.0, 5341.0, 5371.0, 5343.0, 5699.0, 5291.0, 5407.0, 5435.0, 5487.0, 5378.0, 5395.0, 5609.0, 5694.0, 5700.0, 5577.0, 5293.0, 5276.0, 5713.0, 5297.0, 5289.0, 5261.0, 5610.0, 5447.0, 5666.0, 5314.0, 5584.0, 5559.0, 5576.0, 5693.0, 5269.0, 5330.0, 5569.0, 5260.0, 5472.0, 5622.0, 5628.0, 5724.0, 5337.0, 5655.0, 5723.0, 5306.0, 5350.0, 5340.0, 5720.0, 5526.0, 5538.0, 5602.0, 5690.0, 5722.0, 5428.0, 5721.0, 5436.0, 5598.0, 5653.0, 5568.0, 5253.0, 5416.0, 5489.0, 5313.0, 5335.0, 5410.0, 5298.0 (number of hits: 11)
14	5580	9	1	333	1	5628.0, 5282.0, 5665.0, 5401.0, 5307.0, 5335.0, 5606.0, 5598.0, 5338.0, 5651.0, 5461.0, 5557.0, 5620.0, 5489.0, 5278.0, 5351.0, 5266.0, 5297.0, 5343.0, 5431.0, 5619.0, 5522.0, 5684.0, 5476.0, 5681.0, 5614.0, 5498.0, 5430.0, 5720.0, 5528.0, 5274.0, 5341.0, 5587.0, 5592.0, 5502.0, 5721.0, 5672.0, 5687.0, 5285.0, 5415.0, 5677.0, 5342.0, 5379.0, 5689.0, 5254.0, 5724.0, 5391.0, 5455.0, 5504.0, 5477.0, 5380.0, 5722.0, 5372.0, 5674.0, 5404.0, 5508.0, 5643.0, 5679.0, 5519.0, 5291.0, 5558.0, 5579.0, 5393.0, 5601.0, 5600.0, 5317.0, 5382.0, 5446.0, 5663.0, 5491.0, 5575.0, 5686.0, 5714.0, 5603.0, 5383.0, 5354.0, 5437.0, 5271.0, 5336.0, 5277.0, 5286.0, 5332.0, 5388.0, 5299.0, 5544.0,

						5357.0, 5329.0, 5535.0, 5284.0, 5656.0, 5275.0, 5355.0, 5316.0, 5466.0, 5559.0, 5268.0, 5555.0, 5569.0, 5463.0, 5630.0 (number of hits: 6)
15	5580	9	1	333	1	5444.0, 5699.0, 5416.0, 5670.0, 5252.0, 5408.0, 5388.0, 5288.0, 5284.0, 5652.0, 5488.0, 5585.0, 5710.0, 5537.0, 5510.0, 5528.0, 5430.0, 5338.0, 5291.0, 5643.0, 5286.0, 5683.0, 5606.0, 5469.0, 5707.0, 5609.0, 5453.0, 5355.0, 5611.0, 5250.0, 5612.0, 5328.0, 5575.0, 5544.0, 5598.0, 5635.0, 5450.0, 5650.0, 5472.0, 5633.0, 5610.0, 5474.0, 5586.0, 5362.0, 5370.0, 5425.0, 5654.0, 5493.0, 5473.0, 5397.0, 5354.0, 5446.0, 5349.0, 5375.0, 5662.0, 5558.0, 5267.0, 5602.0, 5547.0, 5680.0, 5414.0, 5642.0, 5312.0, 5514.0, 5476.0, 5298.0, 5441.0, 5657.0, 5649.0, 5483.0, 5283.0, 5281.0, 5251.0, 5566.0, 5678.0, 5527.0, 5314.0, 5599.0, 5542.0, 5287.0, 5420.0, 5264.0, 5479.0, 5672.0, 5384.0, 5583.0, 5368.0, 5484.0, 5311.0, 5653.0, 5625.0, 5619.0, 5433.0, 5506.0, 5366.0, 5475.0, 5341.0, 5675.0, 5409.0, 5422.0 (number of hits: 8)
16	5580	9	1	333	1	5538.0, 5401.0, 5328.0, 5344.0, 5449.0, 5670.0, 5570.0, 5311.0, 5543.0, 5688.0, 5447.0, 5325.0, 5552.0, 5633.0, 5433.0, 5413.0, 5360.0, 5627.0, 5712.0, 5356.0, 5560.0, 5345.0, 5535.0, 5473.0, 5523.0, 5398.0, 5256.0, 5454.0, 5355.0, 5308.0, 5380.0, 5482.0, 5536.0, 5511.0, 5575.0, 5561.0, 5376.0, 5507.0, 5664.0, 5315.0, 5350.0, 5600.0, 5276.0, 5326.0, 5589.0, 5443.0, 5365.0, 5321.0, 5608.0, 5487.0, 5265.0, 5299.0, 5385.0, 5417.0, 5671.0, 5695.0, 5278.0, 5621.0, 5450.0, 5392.0, 5584.0, 5386.0, 5272.0, 5685.0, 5684.0, 5478.0, 5393.0, 5259.0, 5250.0, 5566.0, 5264.0, 5707.0, 5658.0, 5592.0, 5547.0, 5441.0, 5531.0, 5397.0, 5700.0, 5402.0, 5323.0, 5719.0, 5296.0, 5696.0, 5574.0, 5667.0, 5439.0, 5650.0, 5339.0, 5477.0, 5369.0, 5587.0, 5495.0, 5446.0, 5459.0, 5289.0, 5699.0, 5491.0, 5310.0, 5378.0 (number of hits: 6)
17	5580	9	1	333	1	5317.0, 5579.0, 5384.0, 5252.0, 5526.0, 5466.0, 5256.0, 5436.0, 5506.0, 5487.0, 5476.0, 5410.0, 5326.0, 5588.0, 5322.0, 5715.0, 5574.0, 5689.0, 5501.0, 5685.0, 5603.0, 5547.0, 5654.0, 5471.0, 5556.0, 5623.0, 5582.0, 5530.0, 5630.0, 5581.0, 5492.0, 5392.0, 5408.0, 5289.0, 5325.0, 5385.0, 5688.0, 5537.0, 5255.0, 5517.0, 5404.0, 5284.0, 5571.0, 5399.0, 5548.0, 5719.0, 5632.0, 5637.0, 5626.0, 5329.0, 5451.0, 5570.0, 5650.0, 5658.0, 5573.0, 5393.0, 5275.0, 5296.0, 5669.0, 5527.0, 5704.0, 5362.0, 5444.0, 5551.0, 5419.0,

						5483.0, 5316.0, 5635.0, 5499.0, 5550.0, 5354.0, 5388.0, 5454.0, 5334.0, 5365.0, 5424.0, 5371.0, 5674.0, 5520.0, 5349.0, 5488.0, 5639.0, 5356.0, 5546.0, 5460.0, 5290.0, 5521.0, 5432.0, 5496.0, 5724.0, 5260.0, 5481.0, 5417.0, 5660.0, 5523.0, 5633.0, 5420.0, 5278.0, 5342.0, 5502.0 (number of hits: 3)
18	5580	9	1	333	1	5423.0, 5436.0, 5573.0, 5442.0, 5536.0, 5254.0, 5675.0, 5352.0, 5649.0, 5699.0, 5571.0, 5606.0, 5599.0, 5661.0, 5403.0, 5399.0, 5507.0, 5272.0, 5533.0, 5251.0, 5422.0, 5615.0, 5570.0, 5546.0, 5696.0, 5526.0, 5568.0, 5285.0, 5539.0, 5548.0, 5350.0, 5379.0, 5620.0, 5367.0, 5438.0, 5397.0, 5252.0, 5434.0, 5282.0, 5405.0, 5681.0, 5479.0, 5597.0, 5420.0, 5444.0, 5439.0, 5687.0, 5710.0, 5609.0, 5670.0, 5567.0, 5382.0, 5280.0, 5474.0, 5708.0, 5428.0, 5256.0, 5327.0, 5361.0, 5644.0, 5591.0, 5429.0, 5639.0, 5336.0, 5676.0, 5341.0, 5508.0, 5487.0, 5435.0, 5491.0, 5414.0, 5318.0, 5685.0, 5270.0, 5489.0, 5492.0, 5400.0, 5313.0, 5258.0, 5578.0, 5461.0, 5693.0, 5617.0, 5503.0, 5482.0, 5443.0, 5358.0, 5721.0, 5255.0, 5329.0, 5360.0, 5624.0, 5577.0, 5293.0, 5334.0, 5623.0, 5483.0, 5261.0, 5692.0, 5553.0 (number of hits: 3)
19	5580	9	1	333	1	5703.0, 5567.0, 5525.0, 5292.0, 5412.0, 5545.0, 5629.0, 5670.0, 5333.0, 5554.0, 5354.0, 5336.0, 5340.0, 5311.0, 5719.0, 5500.0, 5348.0, 5394.0, 5669.0, 5515.0, 5443.0, 5288.0, 5339.0, 5291.0, 5520.0, 5360.0, 5383.0, 5454.0, 5313.0, 5701.0, 5386.0, 5411.0, 5682.0, 5327.0, 5709.0, 5302.0, 5280.0, 5318.0, 5546.0, 5586.0, 5461.0, 5628.0, 5444.0, 5672.0, 5642.0, 5683.0, 5565.0, 5613.0, 5548.0, 5272.0, 5358.0, 5483.0, 5433.0, 5283.0, 5687.0, 5609.0, 5651.0, 5536.0, 5448.0, 5434.0, 5517.0, 5700.0, 5576.0, 5407.0, 5300.0, 5655.0, 5622.0, 5332.0, 5509.0, 5325.0, 5437.0, 5708.0, 5587.0, 5681.0, 5263.0, 5568.0, 5633.0, 5676.0, 5717.0, 5451.0, 5706.0, 5390.0, 5345.0, 5419.0, 5660.0, 5271.0, 5417.0, 5402.0, 5312.0, 5377.0, 5542.0, 5538.0, 5487.0, 5720.0, 5696.0, 5303.0, 5436.0, 5514.0, 5335.0, 5571.0 (number of hits: 9)
20	5580	9	1	333	1	5307.0, 5687.0, 5293.0, 5399.0, 5594.0, 5602.0, 5633.0, 5578.0, 5626.0, 5456.0, 5592.0, 5652.0, 5332.0, 5468.0, 5380.0, 5522.0, 5397.0, 5376.0, 5404.0, 5534.0, 5704.0, 5488.0, 5528.0, 5688.0, 5632.0, 5405.0, 5524.0, 5427.0, 5365.0, 5539.0, 5579.0, 5495.0, 5644.0, 5504.0, 5674.0, 5251.0, 5338.0, 5254.0, 5497.0, 5378.0, 5274.0, 5723.0, 5689.0, 5281.0, 5298.0,

						5395.0, 5424.0, 5707.0, 5566.0, 5605.0, 5659.0, 5469.0, 5314.0, 5391.0, 5270.0, 5589.0, 5278.0, 5609.0, 5258.0, 5499.0, 5385.0, 5275.0, 5505.0, 5257.0, 5457.0, 5410.0, 5430.0, 5696.0, 5305.0, 5574.0, 5312.0, 5319.0, 5409.0, 5655.0, 5339.0, 5253.0, 5710.0, 5616.0, 5388.0, 5697.0, 5313.0, 5460.0, 5640.0, 5367.0, 5371.0, 5252.0, 5664.0, 5630.0, 5331.0, 5467.0, 5250.0, 5400.0, 5326.0, 5384.0, 5422.0, 5713.0, 5513.0, 5686.0, 5529.0, 5581.0 (number of hits: 7)
21	5580	9	1	333	1	5581.0, 5318.0, 5382.0, 5333.0, 5270.0, 5313.0, 5346.0, 5451.0, 5433.0, 5524.0, 5485.0, 5422.0, 5645.0, 5343.0, 5512.0, 5491.0, 5448.0, 5414.0, 5267.0, 5693.0, 5299.0, 5641.0, 5470.0, 5320.0, 5500.0, 5609.0, 5546.0, 5662.0, 5436.0, 5279.0, 5309.0, 5393.0, 5502.0, 5329.0, 5311.0, 5713.0, 5473.0, 5534.0, 5287.0, 5618.0, 5369.0, 5626.0, 5283.0, 5590.0, 5544.0, 5675.0, 5440.0, 5631.0, 5514.0, 5604.0, 5306.0, 5394.0, 5407.0, 5434.0, 5411.0, 5701.0, 5527.0, 5350.0, 5487.0, 5595.0, 5582.0, 5307.0, 5498.0, 5373.0, 5541.0, 5334.0, 5683.0, 5289.0, 5638.0, 5705.0, 5275.0, 5717.0, 5589.0, 5469.0, 5268.0, 5379.0, 5437.0, 5695.0, 5517.0, 5622.0, 5493.0, 5488.0, 5460.0, 5588.0, 5345.0, 5251.0, 5463.0, 5420.0, 5610.0, 5314.0, 5342.0, 5265.0, 5496.0, 5584.0, 5260.0, 5680.0, 5688.0, 5362.0, 5413.0, 5721.0 (number of hits: 9)
22	5580	9	1	333	1	5536.0, 5588.0, 5325.0, 5566.0, 5495.0, 5723.0, 5273.0, 5690.0, 5316.0, 5278.0, 5331.0, 5655.0, 5483.0, 5551.0, 5501.0, 5668.0, 5405.0, 5604.0, 5310.0, 5672.0, 5315.0, 5477.0, 5283.0, 5375.0, 5549.0, 5353.0, 5541.0, 5568.0, 5342.0, 5252.0, 5644.0, 5667.0, 5632.0, 5711.0, 5669.0, 5357.0, 5447.0, 5666.0, 5454.0, 5359.0, 5365.0, 5275.0, 5482.0, 5664.0, 5346.0, 5425.0, 5314.0, 5517.0, 5695.0, 5531.0, 5349.0, 5431.0, 5486.0, 5355.0, 5468.0, 5617.0, 5592.0, 5673.0, 5596.0, 5657.0, 5691.0, 5578.0, 5289.0, 5524.0, 5703.0, 5442.0, 5452.0, 5518.0, 5411.0, 5555.0, 5634.0, 5376.0, 5623.0, 5648.0, 5544.0, 5403.0, 5653.0, 5287.0, 5512.0, 5724.0, 5625.0, 5437.0, 5502.0, 5493.0, 5290.0, 5676.0, 5542.0, 5433.0, 5321.0, 5336.0, 5322.0, 5618.0, 5707.0, 5506.0, 5409.0, 5665.0, 5606.0, 5614.0, 5576.0, 5466.0 (number of hits: 5)
23	5580	9	1	333	1	5647.0, 5475.0, 5267.0, 5677.0, 5432.0, 5314.0, 5285.0, 5476.0, 5649.0, 5330.0, 5538.0, 5624.0, 5341.0, 5386.0, 5723.0, 5410.0, 5428.0, 5407.0, 5394.0, 5433.0, 5559.0, 5300.0, 5406.0, 5324.0, 5710.0,

						5637.0, 5580.0, 5291.0, 5440.0, 5585.0, 5694.0, 5664.0, 5390.0, 5508.0, 5527.0, 5519.0, 5451.0, 5296.0, 5532.0, 5668.0, 5594.0, 5537.0, 5306.0, 5392.0, 5584.0, 5650.0, 5454.0, 5528.0, 5638.0, 5563.0, 5265.0, 5284.0, 5704.0, 5413.0, 5336.0, 5369.0, 5557.0, 5556.0, 5701.0, 5298.0, 5718.0, 5685.0, 5259.0, 5434.0, 5669.0, 5465.0, 5467.0, 5529.0, 5482.0, 5686.0, 5474.0, 5253.0, 5608.0, 5684.0, 5363.0, 5254.0, 5715.0, 5469.0, 5278.0, 5368.0, 5676.0, 5531.0, 5548.0, 5683.0, 5597.0, 5350.0, 5271.0, 5356.0, 5706.0, 5323.0, 5636.0, 5644.0, 5340.0, 5319.0, 5385.0, 5682.0, 5679.0, 5382.0, 5598.0, 5709.0 (number of hits: 7)
24	5580	9	1	333	1	5348.0, 5404.0, 5626.0, 5371.0, 5675.0, 5659.0, 5481.0, 5676.0, 5437.0, 5406.0, 5682.0, 5629.0, 5603.0, 5385.0, 5686.0, 5346.0, 5707.0, 5433.0, 5522.0, 5408.0, 5329.0, 5605.0, 5273.0, 5506.0, 5444.0, 5532.0, 5569.0, 5511.0, 5263.0, 5698.0, 5607.0, 5596.0, 5648.0, 5641.0, 5318.0, 5556.0, 5467.0, 5578.0, 5451.0, 5375.0, 5623.0, 5497.0, 5438.0, 5293.0, 5524.0, 5612.0, 5548.0, 5262.0, 5352.0, 5477.0, 5618.0, 5290.0, 5349.0, 5384.0, 5395.0, 5551.0, 5255.0, 5400.0, 5685.0, 5590.0, 5537.0, 5545.0, 5270.0, 5600.0, 5388.0, 5585.0, 5555.0, 5353.0, 5625.0, 5378.0, 5601.0, 5702.0, 5487.0, 5580.0, 5592.0, 5250.0, 5379.0, 5508.0, 5409.0, 5560.0, 5528.0, 5572.0, 5531.0, 5281.0, 5317.0, 5345.0, 5412.0, 5683.0, 5658.0, 5315.0, 5418.0, 5689.0, 5320.0, 5373.0, 5415.0, 5297.0, 5509.0, 5723.0, 5598.0, 5493.0 (number of hits: 3)
25	5580	9	1	333	1	5633.0, 5681.0, 5532.0, 5565.0, 5314.0, 5345.0, 5669.0, 5540.0, 5328.0, 5656.0, 5269.0, 5394.0, 5319.0, 5569.0, 5535.0, 5481.0, 5262.0, 5341.0, 5354.0, 5306.0, 5431.0, 5422.0, 5327.0, 5674.0, 5678.0, 5552.0, 5466.0, 5457.0, 5344.0, 5528.0, 5347.0, 5367.0, 5657.0, 5364.0, 5412.0, 5599.0, 5649.0, 5485.0, 5424.0, 5408.0, 5399.0, 5482.0, 5645.0, 5573.0, 5677.0, 5611.0, 5648.0, 5522.0, 5721.0, 5370.0, 5605.0, 5309.0, 5324.0, 5469.0, 5686.0, 5397.0, 5393.0, 5716.0, 5277.0, 5680.0, 5340.0, 5465.0, 5260.0, 5406.0, 5476.0, 5261.0, 5572.0, 5270.0, 5302.0, 5417.0, 5296.0, 5403.0, 5601.0, 5650.0, 5346.0, 5584.0, 5387.0, 5390.0, 5561.0, 5455.0, 5538.0, 5632.0, 5592.0, 5490.0, 5683.0, 5313.0, 5658.0, 5334.0, 5531.0, 5640.0, 5512.0, 5644.0, 5670.0, 5695.0, 5462.0, 5667.0, 5351.0, 5643.0, 5718.0, 5472.0 (number of hits: 6)
26	5580	9	1	333	1	5391.0, 5349.0, 5286.0, 5324.0, 5618.0,

						5562.0, 5641.0, 5484.0, 5451.0, 5490.0, 5700.0, 5463.0, 5390.0, 5695.0, 5580.0, 5561.0, 5304.0, 5421.0, 5441.0, 5312.0, 5435.0, 5651.0, 5571.0, 5559.0, 5596.0, 5572.0, 5694.0, 5648.0, 5282.0, 5656.0, 5516.0, 5388.0, 5362.0, 5311.0, 5323.0, 5443.0, 5716.0, 5471.0, 5339.0, 5635.0, 5399.0, 5568.0, 5269.0, 5452.0, 5684.0, 5566.0, 5687.0, 5325.0, 5520.0, 5408.0, 5345.0, 5691.0, 5474.0, 5359.0, 5652.0, 5499.0, 5380.0, 5376.0, 5591.0, 5465.0, 5353.0, 5336.0, 5563.0, 5488.0, 5440.0, 5722.0, 5511.0, 5444.0, 5560.0, 5705.0, 5578.0, 5638.0, 5368.0, 5669.0, 5644.0, 5422.0, 5517.0, 5510.0, 5310.0, 5297.0, 5610.0, 5367.0, 5347.0, 5657.0, 5609.0, 5649.0, 5393.0, 5332.0, 5327.0, 5372.0, 5305.0, 5637.0, 5335.0, 5298.0, 5646.0, 5330.0, 5500.0, 5375.0, 5542.0, 5715.0 (number of hits: 8)
27	5580	9	1	333	1	5478.0, 5338.0, 5351.0, 5354.0, 5323.0, 5362.0, 5294.0, 5286.0, 5297.0, 5385.0, 5564.0, 5276.0, 5555.0, 5664.0, 5416.0, 5531.0, 5435.0, 5523.0, 5667.0, 5677.0, 5624.0, 5499.0, 5477.0, 5568.0, 5700.0, 5372.0, 5424.0, 5606.0, 5341.0, 5319.0, 5304.0, 5674.0, 5292.0, 5525.0, 5526.0, 5657.0, 5661.0, 5409.0, 5512.0, 5274.0, 5368.0, 5703.0, 5440.0, 5422.0, 5344.0, 5483.0, 5561.0, 5528.0, 5543.0, 5655.0, 5330.0, 5620.0, 5597.0, 5347.0, 5634.0, 5447.0, 5537.0, 5479.0, 5652.0, 5399.0, 5357.0, 5257.0, 5288.0, 5339.0, 5623.0, 5310.0, 5705.0, 5562.0, 5529.0, 5697.0, 5502.0, 5587.0, 5576.0, 5630.0, 5465.0, 5503.0, 5489.0, 5456.0, 5610.0, 5451.0, 5390.0, 5316.0, 5346.0, 5506.0, 5714.0, 5445.0, 5635.0, 5504.0, 5601.0, 5434.0, 5608.0, 5267.0, 5627.0, 5414.0, 5268.0, 5455.0, 5302.0, 5593.0, 5522.0, 5673.0 (number of hits: 8)
28	5580	9	1	333	1	5566.0, 5531.0, 5306.0, 5516.0, 5342.0, 5319.0, 5511.0, 5370.0, 5449.0, 5576.0, 5365.0, 5619.0, 5276.0, 5681.0, 5655.0, 5605.0, 5508.0, 5687.0, 5522.0, 5377.0, 5445.0, 5557.0, 5477.0, 5407.0, 5650.0, 5361.0, 5535.0, 5344.0, 5546.0, 5664.0, 5480.0, 5639.0, 5326.0, 5515.0, 5715.0, 5632.0, 5359.0, 5603.0, 5574.0, 5579.0, 5304.0, 5425.0, 5519.0, 5496.0, 5666.0, 5506.0, 5698.0, 5366.0, 5285.0, 5485.0, 5424.0, 5637.0, 5289.0, 5435.0, 5441.0, 5555.0, 5364.0, 5277.0, 5520.0, 5360.0, 5609.0, 5251.0, 5686.0, 5414.0, 5410.0, 5691.0, 5615.0, 5677.0, 5595.0, 5371.0, 5256.0, 5264.0, 5719.0, 5372.0, 5544.0, 5451.0, 5667.0, 5657.0, 5713.0, 5537.0, 5643.0, 5689.0, 5675.0, 5621.0, 5296.0, 5703.0, 5672.0, 5674.0, 5334.0, 5569.0,

						5647.0, 5718.0, 5684.0, 5333.0, 5490.0, 5482.0, 5564.0, 5586.0, 5696.0, 5584.0 (number of hits: 5)
29	5580	9	1	333	1	5311.0, 5575.0, 5458.0, 5261.0, 5444.0, 5534.0, 5376.0, 5273.0, 5716.0, 5472.0, 5395.0, 5548.0, 5699.0, 5564.0, 5403.0, 5356.0, 5445.0, 5347.0, 5562.0, 5691.0, 5700.0, 5456.0, 5425.0, 5264.0, 5328.0, 5574.0, 5549.0, 5455.0, 5714.0, 5641.0, 5316.0, 5352.0, 5625.0, 5529.0, 5463.0, 5648.0, 5262.0, 5495.0, 5358.0, 5619.0, 5561.0, 5568.0, 5423.0, 5333.0, 5669.0, 5598.0, 5251.0, 5338.0, 5519.0, 5697.0, 5412.0, 5268.0, 5252.0, 5720.0, 5431.0, 5634.0, 5345.0, 5658.0, 5721.0, 5620.0, 5605.0, 5536.0, 5483.0, 5656.0, 5715.0, 5351.0, 5576.0, 5446.0, 5687.0, 5621.0, 5303.0, 5622.0, 5255.0, 5719.0, 5577.0, 5452.0, 5546.0, 5480.0, 5361.0, 5604.0, 5552.0, 5363.0, 5693.0, 5554.0, 5581.0, 5260.0, 5421.0, 5387.0, 5489.0, 5682.0, 5681.0, 5553.0, 5310.0, 5544.0, 5628.0, 5331.0, 5539.0, 5424.0, 5603.0, 5339.0 (number of hits: 3)
30	5580	9	1	333	1	5409.0, 5550.0, 5265.0, 5315.0, 5312.0, 5468.0, 5608.0, 5330.0, 5533.0, 5643.0, 5583.0, 5575.0, 5631.0, 5492.0, 5565.0, 5326.0, 5666.0, 5556.0, 5375.0, 5404.0, 5470.0, 5592.0, 5254.0, 5357.0, 5469.0, 5361.0, 5271.0, 5391.0, 5352.0, 5694.0, 5501.0, 5594.0, 5574.0, 5599.0, 5347.0, 5363.0, 5400.0, 5317.0, 5527.0, 5534.0, 5679.0, 5709.0, 5576.0, 5255.0, 5439.0, 5584.0, 5560.0, 5485.0, 5358.0, 5300.0, 5638.0, 5380.0, 5519.0, 5568.0, 5695.0, 5547.0, 5277.0, 5393.0, 5612.0, 5561.0, 5431.0, 5587.0, 5506.0, 5499.0, 5365.0, 5708.0, 5521.0, 5674.0, 5702.0, 5641.0, 5446.0, 5449.0, 5528.0, 5650.0, 5495.0, 5385.0, 5362.0, 5276.0, 5646.0, 5530.0, 5464.0, 5520.0, 5573.0, 5454.0, 5344.0, 5399.0, 5532.0, 5374.0, 5716.0, 5488.0, 5577.0, 5447.0, 5388.0, 5410.0, 5656.0, 5522.0, 5632.0, 5322.0, 5337.0, 5636.0 (number of hits: 2)

5270 MHz, 40 MHz Bandwidth

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

Please refer to the following statistical tables:

5270 MHz, 40 MHz Bandwidth

Table-1A/1B Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	95	1	558	1
2	5270	89	1	598	1
3	5270	59	1	898	1
4	5270	83	1	638	1
5	5270	62	1	858	1
6	5270	67	1	798	1
7	5270	78	1	678	1
8	5270	65	1	818	1
9	5270	57	1	938	1
10	5270	63	1	838	1
11	5270	70	1	758	1
12	5270	76	1	698	1
13	5270	18	1	3066	1
14	5270	86	1	618	1
15	5270	61	1	878	1
16	5270	24	1	2268	1
17	5270	18	1	2991	1
18	5270	73	1	724	1
19	5270	71	1	747	1
20	5270	24	1	2238	1
21	5270	28	1	1920	1
22	5270	25	1	2157	1
23	5270	47	1	1135	1
24	5270	31	1	1725	1
25	5270	78	1	680	1
26	5270	31	1	1708	1
27	5270	19	1	2924	1
28	5270	29	1	1824	1
29	5270	32	1	1682	1
30	5270	22	1	2405	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	25	3.1	184	1
2	5270	25	2.9	216	1
3	5270	25	2.4	225	1
4	5270	24	3.6	160	1
5	5270	28	4.4	161	1
6	5270	23	4	222	1
7	5270	27	3.7	227	1
8	5270	25	2.9	214	1
9	5270	27	3.5	164	1
10	5270	28	1.7	179	1
11	5270	25	3.3	200	1
12	5270	25	4.1	213	1
13	5270	25	1.9	210	1
14	5270	23	4.7	167	1
15	5270	28	1.6	217	1
16	5270	24	5	217	1
17	5270	25	1.2	219	1
18	5270	24	4.2	204	1
19	5270	25	1.3	192	1
20	5270	29	1.1	158	1
21	5270	29	2.6	153	1
22	5270	28	1	160	1
23	5270	26	4	198	1
24	5270	23	3	189	1
25	5270	26	1.7	208	1
26	5270	26	4.3	208	1
27	5270	23	1.2	194	1
28	5270	28	4.1	176	1
29	5270	29	1.5	212	1
30	5270	25	3.5	157	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	17	8	342	1
2	5270	18	9.8	221	1
3	5270	18	10	366	1
4	5270	17	7.7	403	1
5	5270	16	8.4	489	1
6	5270	17	9.3	275	1
7	5270	18	6.6	252	1
8	5270	18	8.3	396	1
9	5270	16	6.6	272	1
10	5270	18	8.8	490	1
11	5270	18	8.9	252	1
12	5270	17	6.7	235	1
13	5270	17	8.1	331	1
14	5270	17	6.4	249	1
15	5270	18	6.3	395	1
16	5270	16	9.1	211	1
17	5270	18	9.5	299	1
18	5270	17	8.7	372	1
19	5270	16	10	241	1
20	5270	18	8.5	401	1
21	5270	18	7	329	1
22	5270	18	9.1	200	1
23	5270	17	9.3	395	1
24	5270	17	7.1	398	1
25	5270	18	6.8	322	1
26	5270	16	9.2	479	1
27	5270	16	8.5	329	1
28	5270	18	9.1	240	1
29	5270	17	6.9	276	1
30	5270	16	8.3	409	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	12	15.3	312	1
2	5270	14	15	404	1
3	5270	14	11	342	1
4	5270	13	17	480	1
5	5270	12	16.3	451	1
6	5270	12	11.6	370	1
7	5270	15	14.7	212	1
8	5270	14	12.8	393	1
9	5270	12	16.6	433	1
10	5270	13	13.2	433	1
11	5270	13	18.1	436	1
12	5270	16	17.8	377	1
13	5270	16	15.3	363	1
14	5270	16	17.9	361	1
15	5270	12	16.1	350	1
16	5270	14	15.6	321	1
17	5270	12	19.6	282	1
18	5270	12	14.7	291	1
19	5270	16	17.6	492	1
20	5270	13	18.3	425	1
21	5270	15	19.3	370	1
22	5270	13	17.9	260	1
23	5270	15	15.5	347	1
24	5270	14	19	274	1
25	5270	14	18	360	1
26	5270	15	12.4	362	1
27	5270	14	14	433	1
28	5270	16	19.6	331	1
29	5270	15	11.8	467	1
30	5270	13	16.1	366	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	53	1115		0.484988	1
1	2	8	84.5	1768		1.253121	
2	2	14	90.2	1375		2.416083	
3	3	16	65.5	1841	1647	3.336707	
4	1	12	85.8			5.324529	
5	3	11	74	1628	1997	6.129507	
6	2	16	73.7	1806		6.963886	
7	3	7	51.7	1227	1149	8.508082	
8	2	18	90.4	1320		9.352043	
9	2	14	85.7	1565		10.320241	
10	3	5	66	1720	1664	11.28388	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	51	1641		1.08158	1
1	1	18	91.9			2.017751	
2	3	10	78.6	1752	1750	3.110495	
3	3	9	51.5	1756	1666	4.265952	
4	2	11	99.8	1157		5.343938	
5	3	16	81.8	1257	1256	6.995964	
6	1	19	85.3			9.143624	
7	1	14	86.2			9.465185	
8	2	9	98.2	1517		11.437869	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	76.9	1409	1891	0.833816	
1	2	9	96.4	1677		1.373716	
2	3	19	82.5	1575	1812	3.724983	
3	3	20	69	1039	1449	4.893305	
4	2	7	98.5	1763		5.543524	1
5	2	19	65.1	1683		6.988312	
6	1	18	54.1			8.191322	
7	1	13	59.7			10.245281	
8	2	8	58.4	1154		10.820703	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	69.1	1830		0.516718	
1	3	19	59.6	1238	1379	1.138909	
2	2	14	74.5	1016		2.385045	
3	2	10	97.3	1857		3.054513	
4	2	8	61.3	1714		3.77131	
5	3	11	95	1505	1241	4.0103	
6	3	19	69.4	1806	1993	5.319317	
7	2	7	92.3	1191		6.140063	1
8	2	13	96.4	1944		6.581096	
9	2	8	84.3	1569		7.557285	
10	3	16	53.8	1281	1054	8.071127	
11	3	19	63.1	1857	1723	9.038283	
12	2	16	51.5	1108		9.87404	
13	3	20	66	1491	1689	11.102946	
14	1	18	57.9			11.519601	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	98.2			0.044417	
1	2	11	53.4	1137		1.363662	
2	1	7	90.3			1.812959	
3	1	8	94.7			2.160487	
4	2	8	54.6	1358		3.224097	
5	2	20	83.8	1491		3.692207	
6	3	18	85.5	1354	1381	4.710037	
7	2	17	87.2	1446		5.155368	
8	2	16	80.7	1903		6.326691	1
9	2	9	68.5	1542		6.570591	
10	3	9	97.5	1557	1294	7.725518	
11	3	10	74.6	1873	1880	8.032555	
12	2	14	90.5	1338		9.05982	
13	2	19	77.6	1547		9.513902	
14	1	7	70.6			10.239486	
15	2	9	71.5	1357		11.058973	
16	2	20	76.2	1738		11.786807	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	71.7	1162		0.091477	
1	2	19	72.4	1326		1.525476	
2	1	17	52.3			2.826503	
3	2	16	85.8	1484		4.082198	
4	3	5	86.6	1594	1152	5.708035	
5	3	19	59.8	1858	1570	6.879723	1
6	2	10	87.7	1977		8.183449	
7	2	9	88.7	1655		8.510482	
8	2	16	78.1	1183		10.274731	
9	3	11	79.4	1882	1918	11.023917	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	54.6			0.689694	
1	3	16	81.7	1794	1497	1.683351	
2	1	6	54.9			2.298224	
3	1	10	96.6			3.623895	
4	2	10	62.3	1270		4.283036	
5	3	11	54.4	1984	1749	4.812394	
6	2	14	87	1776		6.447958	1
7	3	11	84.1	1923	1846	6.907224	
8	3	14	57.8	1262	1913	7.634816	
9	2	7	61.3	1426		9.088886	
10	1	6	95.3			9.392848	
11	2	9	96.2	1667		11.005489	
12	2	15	67.4	1928		11.586531	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	52.3	1655		0.127238	
1	2	18	57.1	1582		1.46303	
2	2	14	95	1429		1.9077	
3	1	19	70.7			2.983202	
4	2	13	63.6	1041		3.4599	
5	2	19	87.5	1940		4.114381	
6	2	19	59.1	1266		5.124299	
7	1	10	52.8			5.783756	1
8	1	7	77.5			6.847098	
9	1	9	66.6			7.644991	
10	1	12	99.5			8.318014	
11	2	14	50.3	1724		9.152145	
12	2	12	72.5	1858		9.822969	
13	3	16	88.3	1675	1267	11.087677	
14	3	15	55.9	1899	1872	11.464598	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	68.7	1277	1204	0.188865	
1	2	10	69.1	1201		1.636475	
2	3	10	92.9	1741	1832	1.958178	
3	2	15	68.6	1034		3.529456	
4	1	13	90.7			3.932571	
5	3	8	52.7	1497	1818	4.76321	
6	2	15	76.2	1259		6.407078	1
7	2	5	71.1	1873		6.731108	
8	2	17	61.6	1173		7.726043	
9	2	19	99.9	1458		8.985826	
10	2	19	83.9	1342		9.985466	
11	2	12	73.9	1870		11.063805	
12	2	18	97	1858		11.530348	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	97.9			0.517386	
1	2	9	84	1327		2.318107	
2	2	17	56.6	1483		3.466462	
3	3	13	56.4	1713	1624	3.818594	
4	1	8	98.8			5.918109	
5	3	18	74.2	1103	1682	6.637677	1
6	3	6	94.4	1056	1584	7.373264	
7	2	15	70.1	1445		9.321859	
8	1	12	72.7			10.329488	
9	2	14	88.9	1550		11.70328	
0	1	9	97.9			0.517386	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	87.2	1626	1221	0.908297	
1	2	15	80	1793		1.559068	
2	2	16	86.5	1888		2.435596	
3	2	9	63.9	1537		3.973302	
4	3	12	55	1204	1755	4.77653	
5	3	13	53.2	1123	1418	5.01261	
6	3	18	88.8	1557	1569	6.680524	1
7	2	14	91.8	1041		7.873073	
8	2	16	73.9	1822		8.548321	
9	2	8	50.3	1729		9.27608	
10	2	11	63.1	1816		10.208549	
11	2	8	82.8	1550		11.958096	
0	3	17	87.2	1626	1221	0.908297	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	60.7	1321		0.27557	
1	2	8	96.2	1913		1.268836	
2	1	20	66.6			1.610484	
3	1	18	65.9			2.846932	
4	2	13	64.3	1809		3.451703	
5	2	14	61.3	1975		3.779075	
6	2	15	64.6	1866		5.185831	
7	1	7	60.6			5.91985	
8	2	9	98.9	1922		6.398971	1
9	1	12	50.5			7.289575	
10	3	10	61.3	1067	1893	7.73056	
11	3	15	93.4	1234	1060	8.48097	
12	2	13	86	1016		9.50642	
13	2	12	59.3	1604		9.824295	
14	2	11	92.9	1055		11.083187	
15	2	7	93.1	1217		11.601824	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	96.6			0.575639	1
1	1	7	84			1.496242	
2	2	7	100	1543		1.520611	
3	2	10	83.8	1846		2.495847	
4	1	7	98.9			3.656605	
5	1	9	62.6			4.419604	
6	2	15	94.9	1758		4.947872	
7	3	16	91.3	1581	1161	5.673229	
8	3	10	76	1653	1333	6.451695	
9	2	17	64.5	1612		7.055777	
10	1	15	92.9			7.890811	
11	2	18	85.3	1701		8.330399	
12	3	16	96.1	1605	1844	9.025182	
13	2	20	51.3	1796		9.989643	
14	2	7	87.3	1822		11.143196	
15	1	13	78.5			11.311978	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	99.3	1907	1573	0.400635	0
1	1	19	92.1			1.909258	
2	1	10	59.9			2.083608	
3	3	5	84.5	1914	1597	3.144455	
4	2	13	82.7	1379		4.287395	
5	2	12	83.9	1231		5.830293	
6	1	9	71.4			6.899635	
7	3	13	75.1	1315	1779	7.264912	
8	2	20	95.7	1995		8.638958	
9	2	12	67.8	1757		9.891277	
10	2	19	74.4	1243		10.35278	
11	3	11	79.7	1669	1547	11.45298	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	74.6	1910		0.07354	1
1	2	6	70.1	1034		1.098785	
2	2	8	53.5	1538		2.37282	
3	1	9	51.2			2.734004	
4	2	12	58.9	1951		4.157513	
5	2	8	98.3	1238		4.288998	
6	1	12	50			5.200191	
7	3	19	92.9	2000	1575	6.516726	
8	2	9	50.2	1424		7.10605	
9	3	19	62.5	1813	1961	8.094105	
10	2	8	73.9	1646		9.337077	
11	1	9	92			10.052811	
12	3	13	79.5	1044	1881	10.789867	
13	1	9	56.4			11.34277	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	53.5			0.518296	1
1	1	19	89.9			1.342182	
2	1	6	85.3			2.148209	
3	3	13	59.9	1942	1559	3.180917	
4	1	7	72.6			4.905471	
5	2	17	66.8	1329		5.828837	
6	3	5	57.8	1905	1622	6.695201	
7	2	13	80.8	1427		7.16038	
8	2	19	72.3	1916		8.912687	
9	2	5	72.2	1446		9.774671	
10	2	11	84.3	1530		10.15019	
11	2	9	84.1	1519		11.079338	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	72.8	1845	1018	0.384459	
1	1	15	77.1			1.772868	
2	2	19	57.8	1129		3.127183	
3	3	19	62.5	1147	1089	3.643018	
4	2	7	62.1	1112		4.77995	
5	2	18	59.2	1266		5.52582	1
6	2	16	78	1980		6.984004	
7	1	17	61.1			8.383516	
8	2	10	72.8	1995		9.650394	
9	3	19	51.1	1055	1283	9.918908	
10	2	12	64.8	1531		11.344676	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	53.4	1810		0.407673	
1	3	6	92.1	1183	1435	0.777776	
2	3	10	74.5	1914	1325	1.878067	
3	1	8	64.7			2.33945	
4	2	16	68.8	1494		2.807872	
5	2	11	70.9	1043		3.622277	
6	2	17	76.3	1118		4.003819	
7	3	15	71.7	1267	1825	4.778188	
8	2	17	83.4	1787		5.548813	
9	3	17	60.2	1721	1813	6.076877	1
10	2	9	66.5	1484		6.856679	
11	1	6	71			7.319779	
12	2	13	67.9	1024		7.817077	
13	3	9	78.4	1622	1146	8.659764	
14	1	14	99.5			8.9338	
15	2	11	71.6	1209		10.040816	
16	2	6	63.7	1793		10.177535	
17	1	6	75.9			10.818337	
18	1	11	91.3			11.647895	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	57.5	1838		0.535171	
1	1	14	83.4			1.340244	
2	2	14	72.6	1684		2.21556	
3	3	11	90.2	1606	1588	2.809853	
4	1	15	85			3.751839	
5	3	18	53.5	1303	1323	4.700061	
6	1	10	50.8			5.542572	
7	2	7	67.5	1452		5.607605	1
8	2	6	50.2	1049		7.165188	
9	2	18	76.9	1768		7.307761	
10	2	18	80.1	1973		8.743942	
11	1	12	52.5			9.010726	
12	3	11	57.1	1193	1302	9.674837	
13	2	15	63.6	1584		10.541158	
14	2	8	94.6	1120		11.597704	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	54.7	1747	1333	0.557604	
1	1	9	60.1			1.790222	
2	1	13	66			3.27282	
3	2	7	68.8	1800		4.596797	
4	2	11	88.5	1908		5.732717	1
5	2	13	79.6	1606		7.68308	
6	1	17	65.2			8.090208	
7	2	17	51.7	1621		10.127957	
8	2	19	58.8	1990		11.930032	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	76	1432	1834	0.118174	
1	1	20	77.7			0.774565	
2	1	16	75.4			1.52487	
3	3	6	86.2	1052	1138	1.971027	
4	1	9	90.7			2.865352	
5	2	18	54	1904		3.355651	
6	2	16	96.4	1598		4.092679	
7	2	7	82.5	1727		4.698587	
8	2	12	59	1069		5.150925	
9	1	13	53.3			6.09043	1
10	1	17	53.5			6.653756	
11	2	20	75.6	1578		7.548044	
12	1	16	92.7			7.592126	
13	3	13	56.4	1084	1448	8.689848	
14	1	18	81.3			9.055122	
15	2	7	60.6	1579		10.003893	
16	2	17	79.7	1950		10.431691	
17	2	19	86.9	1597		11.115844	
18	2	16	59.9	1730		11.619948	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	83.6	1202		0.593636	
1	2	11	71.1	1940		1.478273	
2	2	14	53.3	1239		2.385649	
3	2	11	69.4	1595		2.950727	
4	1	16	87.5			3.76558	
5	2	7	84.4	1905		4.575544	
6	2	6	69.4	1672		5.507456	
7	2	19	60.5	1299		5.960552	1
8	2	10	50.5	1778		6.701102	
9	1	18	77.4			7.813707	
10	1	8	76.1			8.270472	
11	2	14	53.8	1216		8.975358	
12	3	9	64.1	1229	1674	10.298067	
13	3	13	57.8	1357	1554	10.569779	
14	1	16	53.3			11.687028	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	61.7			0.529104	0
1	1	16	60.1			1.66007	
2	3	14	51.5	1351	1883	2.273994	
3	2	11	89.6	1280		3.624758	
4	2	15	58.9	1207		4.869541	
5	2	15	97.9	1936		5.724851	
6	3	10	74.3	1729	1428	6.840545	
7	1	11	97.9			7.812247	
8	2	11	69.8	1828		9.724085	
9	3	6	67.3	1902	1741	10.759819	
10	1	20	62.4			11.656929	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	58.5	1117	1151	0.645544	1
1	2	19	83.4	1552		2.202181	
2	3	19	88.8	1404	1658	2.808683	
3	2	12	96.3	1091		4.085294	
4	2	12	67.5	1415		5.246188	
5	1	12	65.4			6.975602	
6	2	8	63.1	1390		8.319999	
7	2	10	87.8	1070		8.964436	
8	3	15	90.3	1732	1347	10.580638	
9	1	10	81.7			11.07224	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	59.6			0.009488	1
1	2	6	68.4	1112		1.814494	
2	3	7	76.8	1206	1183	3.692797	
3	2	17	88.1	1552		5.794898	
4	2	13	75.2	1715		6.642011	
5	1	13	61.1			8.239161	
6	1	8	88.9			9.698718	
7	2	6	51.4	1843		11.509897	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	79.1	1375	1108	0.84305	1
1	1	16	65.7			1.470164	
2	1	12	89.7			2.41404	
3	2	16	78.7	1890		3.396022	
4	1	11	61.3			5.368584	
5	1	9	78.4			5.63391	
6	2	8	63.7	1117		7.000084	
7	2	17	87.2	1941		8.299692	
8	3	14	71.5	1686	1910	9.264421	
9	2	16	59.6	1237		10.852133	
10	2	7	62.5	1477		11.124095	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	78.5	1227	1429	0.898539	1
1	2	8	53.2	1875		2.192383	
2	3	6	69	1418	1647	2.482668	
3	2	18	56.1	1819		4.5901	
4	2	13	79.9	1149		5.700786	
5	1	15	60.3			7.154518	
6	3	11	70.5	1196	1930	7.733009	
7	2	19	52.1	1620		9.159663	
8	2	20	58.5	1196		10.537827	
9	2	13	53.5	1731		10.901798	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	57	1703		0.171266	1
1	2	13	88.8	1103		1.700316	
2	2	16	50	1568		1.851301	
3	2	13	83.1	1895		3.024948	
4	3	13	89.6	1138	1776	4.051955	
5	2	5	77.2	1306		5.076532	
6	2	15	64.4	1557		6.052959	
7	2	14	72.5	1576		6.668842	
8	3	9	96.9	1662	1990	7.521408	
9	2	6	63.5	1807		8.49609	
10	3	12	65.6	1235	1519	9.656358	
11	1	18	72.6			10.948573	
12	2	7	82.4	1153		11.449745	
0	2	5	57	1703		0.171266	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	75.1	1104		0.335434	
1	2	5	95.9	1139		0.913785	
2	2	15	78.5	1282		1.659874	
3	1	14	97.7			2.079501	
4	1	16	61.1			3.02479	
5	1	18	78.9			3.713216	
6	2	14	73.3	1721		4.468747	
7	2	16	72.9	1999		4.94106	
8	2	15	57.4	1830		5.901347	
9	1	18	76.5			6.391348	1
10	2	10	73.3	1136		6.996013	
11	2	15	85.1	1184		7.602805	
12	2	19	67.5	1702		8.204194	
13	1	8	83.6			8.95568	
14	1	6	98.1			9.668115	
15	3	9	67.5	1795	1314	10.072254	
16	3	8	87.3	1093	1776	10.830926	
17	2	15	58.4	1991		11.338025	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	83.3	1124		0.132113	
1	2	17	80	1188		1.032692	
2	3	20	95.2	1541	1459	2.02928	
3	2	8	71.1	1168		3.547181	
4	3	13	70.6	1748	1879	4.440915	
5	2	17	89.1	1398		5.094417	
6	1	10	69.4			6.092366	1
7	3	16	80.1	1624	1825	6.87344	
8	2	18	50.6	1554		8.043436	
9	3	11	86.3	1441	1214	8.763314	
10	2	6	91.6	1027		10.091064	
11	3	12	78.7	1577	1827	10.195235	
12	1	11	74.6			11.923258	

Table-6 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	5667.0, 5704.0, 5499.0, 5373.0, 5491.0, 5699.0, 5533.0, 5282.0, 5678.0, 5437.0, 5312.0, 5425.0, 5353.0, 5615.0, 5679.0, 5324.0, 5562.0, 5386.0, 5306.0, 5576.0, 5305.0, 5594.0, 5408.0, 5466.0, 5689.0, 5504.0, 5414.0, 5296.0, 5686.0, 5672.0, 5691.0, 5483.0, 5530.0, 5447.0, 5412.0, 5490.0, 5581.0, 5487.0, 5350.0, 5548.0, 5286.0, 5612.0, 5640.0, 5458.0, 5428.0, 5718.0, 5270.0, 5685.0, 5451.0, 5526.0, 5438.0, 5372.0, 5613.0, 5367.0, 5564.0, 5261.0, 5638.0, 5531.0, 5347.0, 5310.0, 5436.0, 5327.0, 5518.0, 5694.0, 5434.0, 5435.0, 5503.0, 5383.0, 5579.0, 5676.0, 5462.0, 5449.0, 5625.0, 5304.0, 5688.0, 5652.0, 5289.0, 5267.0, 5690.0, 5602.0, 5262.0, 5290.0, 5629.0, 5711.0, 5522.0, 5698.0, 5558.0, 5622.0, 5706.0, 5352.0, 5429.0, 5488.0, 5376.0, 5366.0, 5527.0, 5670.0, 5443.0, 5577.0, 5542.0, 5643.0 (number of hits: 9)
2	5270	9	1	333	1	5555.0, 5440.0, 5582.0, 5420.0, 5650.0, 5431.0, 5632.0, 5390.0, 5699.0, 5399.0, 5637.0, 5445.0, 5461.0, 5536.0, 5350.0, 5718.0, 5397.0, 5497.0, 5561.0, 5586.0, 5499.0, 5259.0, 5572.0, 5441.0, 5300.0, 5334.0, 5634.0, 5279.0, 5686.0, 5408.0, 5509.0, 5657.0, 5705.0, 5673.0, 5372.0, 5702.0, 5416.0, 5262.0, 5614.0, 5492.0, 5519.0, 5535.0, 5379.0, 5552.0, 5444.0, 5447.0, 5297.0, 5443.0, 5565.0, 5464.0, 5296.0, 5713.0, 5392.0, 5528.0, 5301.0, 5456.0, 5386.0, 5358.0, 5697.0, 5665.0, 5595.0, 5466.0, 5521.0, 5720.0, 5407.0, 5500.0, 5636.0, 5715.0, 5679.0, 5308.0, 5505.0, 5680.0, 5677.0, 5389.0, 5344.0, 5484.0, 5579.0, 5649.0, 5339.0, 5306.0, 5690.0, 5611.0, 5340.0, 5691.0, 5400.0, 5274.0, 5434.0, 5620.0, 5451.0, 5474.0, 5640.0, 5477.0, 5598.0, 5326.0, 5330.0, 5512.0, 5333.0, 5412.0, 5256.0, 5295.0 (number of hits: 7)
3	5270	9	1	333	1	5333.0, 5630.0, 5602.0, 5697.0, 5661.0, 5292.0, 5391.0, 5675.0, 5717.0, 5260.0, 5596.0, 5322.0, 5559.0, 5568.0, 5370.0, 5425.0, 5648.0, 5309.0, 5393.0, 5492.0, 5343.0, 5485.0, 5400.0, 5534.0, 5254.0, 5665.0, 5607.0, 5385.0, 5378.0, 5441.0, 5366.0, 5637.0, 5545.0, 5324.0, 5620.0, 5476.0, 5410.0, 5506.0, 5299.0, 5455.0, 5344.0, 5591.0, 5436.0, 5517.0, 5705.0, 5574.0, 5450.0, 5414.0, 5613.0, 5268.0, 5552.0, 5553.0, 5681.0, 5293.0, 5301.0, 5610.0, 5399.0, 5547.0, 5633.0, 5590.0,

						5723.0, 5359.0, 5443.0, 5352.0, 5496.0, 5272.0, 5679.0, 5664.0, 5300.0, 5348.0, 5256.0, 5672.0, 5426.0, 5477.0, 5470.0, 5532.0, 5421.0, 5698.0, 5296.0, 5465.0, 5585.0, 5625.0, 5362.0, 5287.0, 5481.0, 5467.0, 5645.0, 5507.0, 5297.0, 5680.0, 5262.0, 5405.0, 5616.0, 5251.0, 5263.0, 5323.0, 5349.0, 5464.0, 5401.0, 5432.0 (number of hits: 9)
4	5270	9	1	333	1	5620.0, 5430.0, 5515.0, 5457.0, 5427.0, 5342.0, 5611.0, 5670.0, 5509.0, 5593.0, 5258.0, 5476.0, 5492.0, 5589.0, 5375.0, 5419.0, 5579.0, 5706.0, 5433.0, 5664.0, 5432.0, 5598.0, 5254.0, 5683.0, 5475.0, 5412.0, 5555.0, 5607.0, 5454.0, 5338.0, 5626.0, 5370.0, 5331.0, 5435.0, 5552.0, 5563.0, 5424.0, 5270.0, 5669.0, 5695.0, 5486.0, 5418.0, 5536.0, 5449.0, 5459.0, 5713.0, 5660.0, 5602.0, 5372.0, 5337.0, 5330.0, 5519.0, 5450.0, 5523.0, 5346.0, 5366.0, 5606.0, 5554.0, 5414.0, 5321.0, 5446.0, 5641.0, 5578.0, 5373.0, 5628.0, 5471.0, 5285.0, 5577.0, 5635.0, 5619.0, 5354.0, 5308.0, 5464.0, 5465.0, 5291.0, 5651.0, 5663.0, 5431.0, 5502.0, 5603.0, 5392.0, 5445.0, 5648.0, 5423.0, 5322.0, 5347.0, 5631.0, 5295.0, 5632.0, 5532.0, 5303.0, 5262.0, 5592.0, 5390.0, 5622.0, 5623.0, 5665.0, 5717.0, 5537.0, 5562.0 (number of hits: 5)
5	5270	9	1	333	1	5372.0, 5459.0, 5455.0, 5356.0, 5374.0, 5595.0, 5522.0, 5649.0, 5629.0, 5399.0, 5472.0, 5371.0, 5659.0, 5615.0, 5436.0, 5503.0, 5718.0, 5387.0, 5550.0, 5571.0, 5452.0, 5316.0, 5646.0, 5712.0, 5279.0, 5400.0, 5682.0, 5636.0, 5333.0, 5544.0, 5526.0, 5350.0, 5716.0, 5474.0, 5344.0, 5281.0, 5672.0, 5287.0, 5720.0, 5605.0, 5523.0, 5411.0, 5545.0, 5488.0, 5323.0, 5486.0, 5637.0, 5540.0, 5493.0, 5256.0, 5578.0, 5558.0, 5664.0, 5651.0, 5562.0, 5311.0, 5630.0, 5443.0, 5722.0, 5535.0, 5413.0, 5594.0, 5431.0, 5337.0, 5707.0, 5261.0, 5395.0, 5480.0, 5609.0, 5564.0, 5280.0, 5689.0, 5296.0, 5592.0, 5305.0, 5250.0, 5343.0, 5506.0, 5611.0, 5471.0, 5679.0, 5300.0, 5384.0, 5567.0, 5497.0, 5677.0, 5568.0, 5469.0, 5447.0, 5339.0, 5525.0, 5502.0, 5588.0, 5531.0, 5579.0, 5297.0, 5721.0, 5693.0, 5590.0, 5513.0 (number of hits: 6)
6	5270	9	1	333	1	5540.0, 5679.0, 5269.0, 5663.0, 5392.0, 5405.0, 5481.0, 5582.0, 5525.0, 5368.0, 5497.0, 5476.0, 5643.0, 5524.0, 5252.0, 5267.0, 5427.0, 5295.0, 5709.0, 5555.0, 5669.0, 5590.0, 5572.0, 5509.0, 5455.0, 5454.0, 5286.0, 5292.0, 5561.0, 5601.0, 5690.0, 5482.0, 5548.0, 5485.0, 5584.0, 5307.0, 5256.0, 5425.0, 5429.0, 5575.0,

						5372.0, 5556.0, 5486.0, 5611.0, 5404.0, 5415.0, 5403.0, 5512.0, 5707.0, 5371.0, 5357.0, 5717.0, 5494.0, 5521.0, 5304.0, 5315.0, 5365.0, 5477.0, 5571.0, 5569.0, 5644.0, 5379.0, 5361.0, 5671.0, 5335.0, 5559.0, 5662.0, 5448.0, 5458.0, 5451.0, 5383.0, 5614.0, 5460.0, 5436.0, 5343.0, 5606.0, 5349.0, 5578.0, 5290.0, 5274.0, 5390.0, 5591.0, 5610.0, 5653.0, 5682.0, 5649.0, 5646.0, 5277.0, 5261.0, 5438.0, 5459.0, 5457.0, 5670.0, 5588.0, 5313.0, 5634.0, 5544.0, 5562.0, 5697.0, 5527.0 (number of hits: 7)
7	5270	9	1	333	1	5534.0, 5446.0, 5584.0, 5291.0, 5560.0, 5671.0, 5682.0, 5452.0, 5558.0, 5658.0, 5704.0, 5350.0, 5679.0, 5423.0, 5294.0, 5693.0, 5261.0, 5518.0, 5632.0, 5652.0, 5421.0, 5481.0, 5618.0, 5330.0, 5324.0, 5615.0, 5448.0, 5353.0, 5267.0, 5628.0, 5634.0, 5425.0, 5501.0, 5707.0, 5688.0, 5525.0, 5464.0, 5579.0, 5252.0, 5441.0, 5604.0, 5340.0, 5256.0, 5369.0, 5661.0, 5437.0, 5269.0, 5367.0, 5611.0, 5472.0, 5684.0, 5454.0, 5372.0, 5399.0, 5376.0, 5265.0, 5444.0, 5251.0, 5657.0, 5692.0, 5619.0, 5675.0, 5341.0, 5614.0, 5428.0, 5392.0, 5631.0, 5347.0, 5672.0, 5612.0, 5397.0, 5515.0, 5416.0, 5498.0, 5542.0, 5393.0, 5468.0, 5533.0, 5326.0, 5655.0, 5387.0, 5513.0, 5329.0, 5493.0, 5336.0, 5687.0, 5370.0, 5543.0, 5351.0, 5588.0, 5450.0, 5281.0, 5616.0, 5257.0, 5418.0, 5322.0, 5538.0, 5404.0, 5490.0, 5358.0 (number of hits: 2)
8	5270	9	1	333	1	5528.0, 5327.0, 5504.0, 5509.0, 5617.0, 5499.0, 5474.0, 5519.0, 5449.0, 5644.0, 5598.0, 5313.0, 5508.0, 5658.0, 5408.0, 5255.0, 5266.0, 5667.0, 5290.0, 5557.0, 5272.0, 5289.0, 5387.0, 5363.0, 5360.0, 5527.0, 5482.0, 5549.0, 5675.0, 5716.0, 5283.0, 5672.0, 5687.0, 5411.0, 5696.0, 5299.0, 5624.0, 5626.0, 5422.0, 5456.0, 5330.0, 5537.0, 5258.0, 5710.0, 5377.0, 5386.0, 5490.0, 5450.0, 5711.0, 5376.0, 5688.0, 5576.0, 5615.0, 5704.0, 5514.0, 5723.0, 5493.0, 5388.0, 5511.0, 5471.0, 5655.0, 5572.0, 5604.0, 5385.0, 5355.0, 5513.0, 5342.0, 5305.0, 5548.0, 5264.0, 5430.0, 5714.0, 5353.0, 5275.0, 5684.0, 5383.0, 5515.0, 5336.0, 5463.0, 5378.0, 5320.0, 5344.0, 5348.0, 5262.0, 5588.0, 5335.0, 5370.0, 5719.0, 5314.0, 5633.0, 5393.0, 5339.0, 5401.0, 5391.0, 5538.0, 5415.0, 5586.0, 5607.0, 5709.0, 5505.0 (number of hits: 6)
9	5270	9	1	333	1	5363.0, 5268.0, 5352.0, 5592.0, 5486.0, 5439.0, 5648.0, 5694.0, 5540.0, 5322.0, 5681.0, 5525.0, 5412.0, 5453.0, 5593.0, 5610.0, 5431.0, 5263.0, 5548.0, 5337.0,

						5488.0, 5691.0, 5300.0, 5561.0, 5282.0, 5538.0, 5615.0, 5347.0, 5423.0, 5543.0, 5355.0, 5454.0, 5535.0, 5469.0, 5690.0, 5657.0, 5414.0, 5418.0, 5556.0, 5570.0, 5527.0, 5478.0, 5633.0, 5432.0, 5386.0, 5723.0, 5335.0, 5675.0, 5455.0, 5281.0, 5714.0, 5682.0, 5290.0, 5356.0, 5381.0, 5459.0, 5560.0, 5622.0, 5339.0, 5396.0, 5605.0, 5383.0, 5380.0, 5297.0, 5607.0, 5419.0, 5284.0, 5506.0, 5573.0, 5311.0, 5712.0, 5467.0, 5717.0, 5568.0, 5532.0, 5354.0, 5402.0, 5649.0, 5376.0, 5645.0, 5378.0, 5706.0, 5628.0, 5460.0, 5686.0, 5286.0, 5687.0, 5677.0, 5474.0, 5428.0, 5416.0, 5270.0, 5683.0, 5353.0, 5701.0, 5580.0, 5526.0, 5465.0, 5291.0, 5303.0 (number of hits: 7)
10	5270	9	1	333	1	5604.0, 5319.0, 5392.0, 5394.0, 5440.0, 5281.0, 5306.0, 5660.0, 5412.0, 5633.0, 5514.0, 5631.0, 5587.0, 5495.0, 5528.0, 5362.0, 5523.0, 5333.0, 5291.0, 5259.0, 5307.0, 5526.0, 5316.0, 5463.0, 5368.0, 5642.0, 5682.0, 5649.0, 5464.0, 5628.0, 5653.0, 5357.0, 5537.0, 5490.0, 5639.0, 5286.0, 5652.0, 5258.0, 5374.0, 5505.0, 5719.0, 5477.0, 5690.0, 5424.0, 5564.0, 5614.0, 5343.0, 5453.0, 5545.0, 5681.0, 5548.0, 5687.0, 5309.0, 5586.0, 5297.0, 5272.0, 5383.0, 5288.0, 5384.0, 5300.0, 5673.0, 5504.0, 5697.0, 5683.0, 5722.0, 5301.0, 5269.0, 5438.0, 5363.0, 5609.0, 5717.0, 5512.0, 5557.0, 5265.0, 5255.0, 5509.0, 5559.0, 5519.0, 5560.0, 5408.0, 5561.0, 5709.0, 5689.0, 5648.0, 5335.0, 5574.0, 5314.0, 5458.0, 5530.0, 5405.0, 5641.0, 5473.0, 5292.0, 5525.0, 5431.0, 5407.0, 5693.0, 5677.0, 5542.0, 5398.0 (number of hits: 11)
11	5270	9	1	333	1	5442.0, 5646.0, 5490.0, 5636.0, 5482.0, 5330.0, 5269.0, 5654.0, 5508.0, 5329.0, 5494.0, 5554.0, 5514.0, 5579.0, 5335.0, 5412.0, 5465.0, 5415.0, 5396.0, 5644.0, 5671.0, 5376.0, 5637.0, 5599.0, 5527.0, 5602.0, 5306.0, 5622.0, 5546.0, 5347.0, 5660.0, 5517.0, 5634.0, 5707.0, 5544.0, 5556.0, 5423.0, 5449.0, 5569.0, 5613.0, 5263.0, 5605.0, 5703.0, 5566.0, 5393.0, 5523.0, 5432.0, 5537.0, 5414.0, 5630.0, 5686.0, 5434.0, 5536.0, 5525.0, 5705.0, 5629.0, 5513.0, 5549.0, 5453.0, 5322.0, 5281.0, 5500.0, 5402.0, 5663.0, 5619.0, 5706.0, 5391.0, 5294.0, 5358.0, 5501.0, 5447.0, 5710.0, 5552.0, 5351.0, 5709.0, 5713.0, 5441.0, 5256.0, 5694.0, 5661.0, 5348.0, 5496.0, 5456.0, 5721.0, 5540.0, 5547.0, 5275.0, 5421.0, 5274.0, 5607.0, 5426.0, 5609.0, 5321.0, 5595.0, 5461.0, 5516.0, 5610.0, 5367.0, 5691.0, 5611.0 (number of hits: 2)

12	5270	9	1	333	1	5620.0, 5413.0, 5523.0, 5272.0, 5536.0, 5280.0, 5416.0, 5391.0, 5406.0, 5503.0, 5606.0, 5368.0, 5422.0, 5717.0, 5399.0, 5575.0, 5521.0, 5615.0, 5455.0, 5298.0, 5577.0, 5479.0, 5263.0, 5352.0, 5640.0, 5547.0, 5364.0, 5590.0, 5603.0, 5669.0, 5482.0, 5374.0, 5287.0, 5429.0, 5648.0, 5627.0, 5513.0, 5442.0, 5544.0, 5348.0, 5674.0, 5654.0, 5596.0, 5569.0, 5458.0, 5405.0, 5537.0, 5269.0, 5566.0, 5617.0, 5688.0, 5465.0, 5321.0, 5633.0, 5464.0, 5557.0, 5644.0, 5691.0, 5331.0, 5571.0, 5353.0, 5659.0, 5699.0, 5696.0, 5310.0, 5339.0, 5344.0, 5460.0, 5477.0, 5508.0, 5646.0, 5433.0, 5639.0, 5702.0, 5573.0, 5265.0, 5253.0, 5335.0, 5661.0, 5655.0, 5475.0, 5542.0, 5346.0, 5452.0, 5396.0, 5530.0, 5595.0, 5668.0, 5517.0, 5313.0, 5457.0, 5629.0, 5490.0, 5718.0, 5349.0, 5281.0, 5308.0, 5362.0, 5448.0, 5515.0 (number of hits: 5)
13	5270	9	1	333	1	5421.0, 5377.0, 5319.0, 5528.0, 5612.0, 5527.0, 5705.0, 5267.0, 5512.0, 5425.0, 5697.0, 5411.0, 5561.0, 5644.0, 5552.0, 5574.0, 5545.0, 5614.0, 5562.0, 5688.0, 5292.0, 5469.0, 5536.0, 5516.0, 5275.0, 5501.0, 5365.0, 5564.0, 5443.0, 5437.0, 5408.0, 5532.0, 5387.0, 5389.0, 5649.0, 5637.0, 5310.0, 5559.0, 5719.0, 5270.0, 5662.0, 5714.0, 5706.0, 5503.0, 5496.0, 5390.0, 5691.0, 5673.0, 5337.0, 5461.0, 5596.0, 5326.0, 5449.0, 5657.0, 5651.0, 5330.0, 5495.0, 5280.0, 5553.0, 5702.0, 5698.0, 5357.0, 5593.0, 5631.0, 5504.0, 5600.0, 5322.0, 5686.0, 5264.0, 5678.0, 5324.0, 5641.0, 5620.0, 5607.0, 5336.0, 5385.0, 5519.0, 5522.0, 5664.0, 5499.0, 5659.0, 5712.0, 5510.0, 5325.0, 5624.0, 5542.0, 5386.0, 5490.0, 5493.0, 5491.0, 5281.0, 5294.0, 5316.0, 5589.0, 5338.0, 5347.0, 5514.0, 5489.0, 5680.0, 5618.0 (number of hits: 3)
14	5270	9	1	333	1	5365.0, 5571.0, 5603.0, 5407.0, 5597.0, 5690.0, 5692.0, 5683.0, 5610.0, 5374.0, 5284.0, 5588.0, 5694.0, 5489.0, 5462.0, 5565.0, 5707.0, 5259.0, 5592.0, 5405.0, 5278.0, 5614.0, 5566.0, 5505.0, 5586.0, 5422.0, 5721.0, 5292.0, 5552.0, 5589.0, 5333.0, 5291.0, 5438.0, 5688.0, 5340.0, 5551.0, 5281.0, 5509.0, 5627.0, 5309.0, 5582.0, 5479.0, 5695.0, 5553.0, 5279.0, 5699.0, 5501.0, 5544.0, 5569.0, 5286.0, 5388.0, 5494.0, 5406.0, 5318.0, 5616.0, 5302.0, 5288.0, 5722.0, 5642.0, 5467.0, 5348.0, 5568.0, 5276.0, 5412.0, 5562.0, 5537.0, 5704.0, 5663.0, 5290.0, 5301.0, 5424.0, 5674.0, 5550.0, 5608.0, 5480.0, 5411.0, 5697.0, 5570.0, 5439.0, 5573.0, 5450.0, 5567.0, 5408.0, 5273.0, 5287.0,

						5260.0, 5623.0, 5431.0, 5653.0, 5575.0, 5711.0, 5386.0, 5540.0, 5280.0, 5399.0, 5632.0, 5662.0, 5393.0, 5528.0, 5657.0 (number of hits: 9)
15	5270	9	1	333	1	5272.0, 5288.0, 5452.0, 5691.0, 5267.0, 5678.0, 5608.0, 5587.0, 5334.0, 5653.0, 5289.0, 5700.0, 5695.0, 5632.0, 5569.0, 5654.0, 5259.0, 5348.0, 5631.0, 5507.0, 5614.0, 5605.0, 5282.0, 5540.0, 5285.0, 5448.0, 5544.0, 5453.0, 5716.0, 5567.0, 5599.0, 5388.0, 5455.0, 5694.0, 5471.0, 5356.0, 5487.0, 5292.0, 5352.0, 5475.0, 5269.0, 5721.0, 5290.0, 5375.0, 5379.0, 5381.0, 5638.0, 5414.0, 5559.0, 5343.0, 5377.0, 5271.0, 5712.0, 5484.0, 5426.0, 5293.0, 5315.0, 5673.0, 5490.0, 5542.0, 5337.0, 5566.0, 5548.0, 5417.0, 5493.0, 5500.0, 5415.0, 5503.0, 5329.0, 5689.0, 5436.0, 5405.0, 5402.0, 5340.0, 5351.0, 5397.0, 5505.0, 5270.0, 5655.0, 5261.0, 5342.0, 5557.0, 5647.0, 5482.0, 5661.0, 5679.0, 5392.0, 5492.0, 5446.0, 5506.0, 5396.0, 5649.0, 5502.0, 5509.0, 5354.0, 5494.0, 5463.0, 5577.0, 5489.0, 5370.0 (number of hits: 6)
16	5270	9	1	333	1	5456.0, 5401.0, 5286.0, 5665.0, 5272.0, 5610.0, 5550.0, 5718.0, 5562.0, 5584.0, 5552.0, 5377.0, 5333.0, 5643.0, 5598.0, 5551.0, 5575.0, 5676.0, 5327.0, 5667.0, 5332.0, 5670.0, 5284.0, 5705.0, 5338.0, 5331.0, 5330.0, 5513.0, 5711.0, 5557.0, 5556.0, 5366.0, 5455.0, 5310.0, 5412.0, 5580.0, 5383.0, 5372.0, 5437.0, 5671.0, 5586.0, 5465.0, 5549.0, 5548.0, 5343.0, 5276.0, 5436.0, 5697.0, 5307.0, 5684.0, 5269.0, 5592.0, 5452.0, 5448.0, 5404.0, 5518.0, 5254.0, 5674.0, 5642.0, 5348.0, 5607.0, 5423.0, 5653.0, 5435.0, 5661.0, 5515.0, 5622.0, 5346.0, 5611.0, 5368.0, 5308.0, 5647.0, 5693.0, 5505.0, 5638.0, 5594.0, 5656.0, 5479.0, 5491.0, 5388.0, 5293.0, 5564.0, 5522.0, 5357.0, 5668.0, 5441.0, 5415.0, 5543.0, 5341.0, 5486.0, 5283.0, 5720.0, 5663.0, 5385.0, 5271.0, 5698.0, 5482.0, 5500.0, 5258.0, 5461.0 (number of hits: 5)
17	5270	9	1	333	1	5307.0, 5432.0, 5457.0, 5373.0, 5340.0, 5642.0, 5306.0, 5714.0, 5283.0, 5446.0, 5266.0, 5410.0, 5302.0, 5648.0, 5687.0, 5300.0, 5690.0, 5713.0, 5587.0, 5279.0, 5451.0, 5664.0, 5659.0, 5672.0, 5550.0, 5505.0, 5284.0, 5477.0, 5453.0, 5406.0, 5708.0, 5699.0, 5397.0, 5461.0, 5382.0, 5290.0, 5627.0, 5694.0, 5403.0, 5613.0, 5381.0, 5292.0, 5680.0, 5682.0, 5409.0, 5489.0, 5447.0, 5684.0, 5501.0, 5480.0, 5528.0, 5688.0, 5276.0, 5513.0, 5396.0, 5377.0, 5616.0, 5298.0, 5704.0, 5323.0, 5515.0, 5609.0, 5422.0, 5551.0, 5473.0,

						5584.0, 5408.0, 5288.0, 5281.0, 5328.0, 5350.0, 5357.0, 5391.0, 5612.0, 5380.0, 5423.0, 5324.0, 5696.0, 5637.0, 5577.0, 5529.0, 5592.0, 5384.0, 5527.0, 5667.0, 5504.0, 5553.0, 5552.0, 5499.0, 5594.0, 5261.0, 5428.0, 5454.0, 5666.0, 5523.0, 5303.0, 5539.0, 5445.0, 5314.0, 5709.0 (number of hits: 10)
18	5270	9	1	333	1	5668.0, 5711.0, 5271.0, 5279.0, 5527.0, 5269.0, 5512.0, 5525.0, 5354.0, 5473.0, 5372.0, 5265.0, 5599.0, 5619.0, 5276.0, 5336.0, 5713.0, 5499.0, 5303.0, 5697.0, 5586.0, 5502.0, 5645.0, 5341.0, 5552.0, 5641.0, 5463.0, 5391.0, 5400.0, 5273.0, 5555.0, 5322.0, 5353.0, 5450.0, 5671.0, 5255.0, 5514.0, 5432.0, 5629.0, 5411.0, 5438.0, 5695.0, 5323.0, 5560.0, 5285.0, 5294.0, 5681.0, 5298.0, 5315.0, 5419.0, 5716.0, 5270.0, 5440.0, 5359.0, 5655.0, 5467.0, 5456.0, 5402.0, 5557.0, 5487.0, 5583.0, 5383.0, 5547.0, 5593.0, 5366.0, 5453.0, 5283.0, 5636.0, 5541.0, 5312.0, 5646.0, 5490.0, 5480.0, 5579.0, 5705.0, 5546.0, 5677.0, 5261.0, 5648.0, 5592.0, 5313.0, 5684.0, 5563.0, 5562.0, 5651.0, 5673.0, 5436.0, 5441.0, 5616.0, 5319.0, 5536.0, 5434.0, 5682.0, 5369.0, 5535.0, 5452.0, 5346.0, 5364.0, 5470.0, 5549.0 (number of hits: 6)
19	5270	9	1	333	1	5310.0, 5456.0, 5252.0, 5538.0, 5543.0, 5442.0, 5373.0, 5713.0, 5487.0, 5614.0, 5691.0, 5690.0, 5639.0, 5483.0, 5441.0, 5561.0, 5599.0, 5546.0, 5633.0, 5593.0, 5267.0, 5704.0, 5412.0, 5558.0, 5525.0, 5627.0, 5720.0, 5282.0, 5523.0, 5687.0, 5340.0, 5630.0, 5402.0, 5498.0, 5409.0, 5263.0, 5493.0, 5609.0, 5452.0, 5459.0, 5379.0, 5504.0, 5592.0, 5317.0, 5349.0, 5492.0, 5480.0, 5309.0, 5386.0, 5529.0, 5693.0, 5578.0, 5676.0, 5471.0, 5291.0, 5510.0, 5403.0, 5323.0, 5327.0, 5337.0, 5372.0, 5335.0, 5524.0, 5467.0, 5399.0, 5618.0, 5590.0, 5383.0, 5395.0, 5461.0, 5678.0, 5595.0, 5421.0, 5499.0, 5454.0, 5254.0, 5586.0, 5576.0, 5712.0, 5626.0, 5255.0, 5677.0, 5629.0, 5637.0, 5293.0, 5300.0, 5553.0, 5391.0, 5567.0, 5652.0, 5423.0, 5496.0, 5551.0, 5266.0, 5501.0, 5305.0, 5298.0, 5286.0, 5362.0, 5376.0 (number of hits: 8)
20	5270	9	1	333	1	5721.0, 5624.0, 5380.0, 5430.0, 5712.0, 5321.0, 5519.0, 5536.0, 5680.0, 5399.0, 5435.0, 5563.0, 5545.0, 5323.0, 5487.0, 5582.0, 5575.0, 5681.0, 5393.0, 5523.0, 5692.0, 5297.0, 5364.0, 5354.0, 5368.0, 5348.0, 5350.0, 5605.0, 5318.0, 5285.0, 5579.0, 5376.0, 5358.0, 5653.0, 5599.0, 5274.0, 5592.0, 5666.0, 5687.0, 5375.0, 5573.0, 5676.0, 5473.0, 5593.0, 5284.0,

						5489.0, 5441.0, 5724.0, 5337.0, 5437.0, 5524.0, 5675.0, 5452.0, 5566.0, 5272.0, 5352.0, 5340.0, 5379.0, 5531.0, 5445.0, 5495.0, 5326.0, 5474.0, 5540.0, 5440.0, 5498.0, 5398.0, 5601.0, 5268.0, 5551.0, 5533.0, 5658.0, 5432.0, 5491.0, 5527.0, 5501.0, 5700.0, 5447.0, 5347.0, 5494.0, 5444.0, 5464.0, 5351.0, 5305.0, 5458.0, 5620.0, 5338.0, 5708.0, 5299.0, 5663.0, 5503.0, 5665.0, 5339.0, 5334.0, 5637.0, 5346.0, 5366.0, 5603.0, 5406.0, 5510.0 (number of hits: 4)
21	5270	9	1	333	1	5551.0, 5683.0, 5623.0, 5259.0, 5431.0, 5621.0, 5498.0, 5349.0, 5653.0, 5252.0, 5676.0, 5296.0, 5669.0, 5716.0, 5485.0, 5377.0, 5451.0, 5691.0, 5595.0, 5619.0, 5329.0, 5479.0, 5646.0, 5335.0, 5709.0, 5588.0, 5433.0, 5682.0, 5328.0, 5532.0, 5300.0, 5576.0, 5453.0, 5500.0, 5478.0, 5677.0, 5452.0, 5697.0, 5511.0, 5421.0, 5384.0, 5700.0, 5385.0, 5417.0, 5634.0, 5357.0, 5533.0, 5287.0, 5269.0, 5530.0, 5593.0, 5618.0, 5406.0, 5261.0, 5316.0, 5416.0, 5630.0, 5260.0, 5639.0, 5537.0, 5707.0, 5306.0, 5392.0, 5622.0, 5523.0, 5366.0, 5466.0, 5545.0, 5520.0, 5499.0, 5686.0, 5517.0, 5290.0, 5502.0, 5573.0, 5339.0, 5254.0, 5436.0, 5344.0, 5696.0, 5584.0, 5661.0, 5447.0, 5265.0, 5425.0, 5378.0, 5400.0, 5704.0, 5631.0, 5251.0, 5504.0, 5354.0, 5684.0, 5596.0, 5612.0, 5490.0, 5427.0, 5326.0, 5457.0, 5713.0 (number of hits: 5)
22	5270	9	1	333	1	5708.0, 5372.0, 5324.0, 5513.0, 5330.0, 5576.0, 5461.0, 5449.0, 5571.0, 5319.0, 5426.0, 5387.0, 5439.0, 5506.0, 5599.0, 5693.0, 5411.0, 5587.0, 5716.0, 5346.0, 5658.0, 5622.0, 5306.0, 5371.0, 5327.0, 5529.0, 5706.0, 5275.0, 5373.0, 5554.0, 5335.0, 5333.0, 5400.0, 5501.0, 5466.0, 5623.0, 5442.0, 5644.0, 5385.0, 5617.0, 5445.0, 5543.0, 5273.0, 5669.0, 5555.0, 5651.0, 5359.0, 5251.0, 5564.0, 5713.0, 5267.0, 5307.0, 5580.0, 5504.0, 5561.0, 5538.0, 5672.0, 5536.0, 5482.0, 5516.0, 5635.0, 5370.0, 5419.0, 5573.0, 5295.0, 5279.0, 5263.0, 5478.0, 5514.0, 5551.0, 5570.0, 5671.0, 5395.0, 5512.0, 5710.0, 5687.0, 5380.0, 5493.0, 5640.0, 5402.0, 5523.0, 5505.0, 5722.0, 5382.0, 5699.0, 5309.0, 5334.0, 5440.0, 5365.0, 5349.0, 5688.0, 5616.0, 5362.0, 5584.0, 5562.0, 5430.0, 5579.0, 5645.0, 5310.0, 5606.0 (number of hits: 5)
23	5270	9	1	333	1	5276.0, 5293.0, 5457.0, 5526.0, 5490.0, 5367.0, 5399.0, 5496.0, 5258.0, 5554.0, 5431.0, 5443.0, 5558.0, 5657.0, 5540.0, 5627.0, 5550.0, 5359.0, 5438.0, 5325.0, 5461.0, 5449.0, 5559.0, 5599.0, 5282.0,

						5719.0, 5297.0, 5683.0, 5362.0, 5369.0, 5284.0, 5572.0, 5552.0, 5539.0, 5579.0, 5614.0, 5331.0, 5401.0, 5368.0, 5472.0, 5389.0, 5420.0, 5314.0, 5390.0, 5398.0, 5523.0, 5441.0, 5373.0, 5639.0, 5328.0, 5702.0, 5348.0, 5291.0, 5309.0, 5681.0, 5285.0, 5666.0, 5563.0, 5315.0, 5691.0, 5633.0, 5655.0, 5499.0, 5343.0, 5694.0, 5323.0, 5602.0, 5478.0, 5542.0, 5263.0, 5598.0, 5332.0, 5271.0, 5714.0, 5384.0, 5604.0, 5433.0, 5590.0, 5447.0, 5485.0, 5256.0, 5535.0, 5442.0, 5424.0, 5516.0, 5378.0, 5519.0, 5651.0, 5596.0, 5704.0, 5427.0, 5418.0, 5394.0, 5600.0, 5528.0, 5698.0, 5312.0, 5407.0, 5566.0, 5509.0 (number of hits: 7)
24	5270	9	1	333	1	5371.0, 5632.0, 5322.0, 5665.0, 5350.0, 5497.0, 5403.0, 5388.0, 5301.0, 5276.0, 5353.0, 5506.0, 5622.0, 5439.0, 5319.0, 5449.0, 5333.0, 5287.0, 5680.0, 5336.0, 5717.0, 5522.0, 5307.0, 5303.0, 5397.0, 5314.0, 5648.0, 5618.0, 5304.0, 5316.0, 5277.0, 5660.0, 5444.0, 5432.0, 5525.0, 5707.0, 5708.0, 5367.0, 5348.0, 5513.0, 5617.0, 5699.0, 5281.0, 5574.0, 5464.0, 5635.0, 5475.0, 5458.0, 5311.0, 5599.0, 5409.0, 5293.0, 5421.0, 5644.0, 5589.0, 5515.0, 5435.0, 5468.0, 5329.0, 5529.0, 5642.0, 5537.0, 5662.0, 5323.0, 5328.0, 5454.0, 5612.0, 5437.0, 5544.0, 5436.0, 5361.0, 5445.0, 5308.0, 5528.0, 5713.0, 5488.0, 5590.0, 5289.0, 5260.0, 5524.0, 5584.0, 5300.0, 5607.0, 5676.0, 5392.0, 5532.0, 5369.0, 5272.0, 5413.0, 5539.0, 5259.0, 5393.0, 5254.0, 5505.0, 5688.0, 5720.0, 5360.0, 5567.0, 5521.0, 5364.0 (number of hits: 11)
25	5270	9	1	333	1	5680.0, 5419.0, 5359.0, 5698.0, 5622.0, 5341.0, 5707.0, 5323.0, 5423.0, 5367.0, 5677.0, 5531.0, 5302.0, 5624.0, 5322.0, 5491.0, 5413.0, 5378.0, 5327.0, 5451.0, 5369.0, 5291.0, 5418.0, 5266.0, 5585.0, 5320.0, 5540.0, 5470.0, 5667.0, 5575.0, 5599.0, 5507.0, 5641.0, 5448.0, 5513.0, 5281.0, 5296.0, 5576.0, 5640.0, 5465.0, 5456.0, 5450.0, 5478.0, 5529.0, 5283.0, 5583.0, 5256.0, 5402.0, 5370.0, 5393.0, 5504.0, 5307.0, 5371.0, 5289.0, 5631.0, 5706.0, 5466.0, 5688.0, 5604.0, 5360.0, 5648.0, 5403.0, 5285.0, 5510.0, 5570.0, 5594.0, 5498.0, 5703.0, 5417.0, 5287.0, 5271.0, 5481.0, 5636.0, 5408.0, 5265.0, 5715.0, 5661.0, 5664.0, 5669.0, 5290.0, 5607.0, 5685.0, 5537.0, 5477.0, 5446.0, 5328.0, 5449.0, 5564.0, 5377.0, 5693.0, 5405.0, 5301.0, 5702.0, 5649.0, 5623.0, 5435.0, 5383.0, 5316.0, 5453.0, 5571.0 (number of hits: 9)
26	5270	9	1	333	1	5375.0, 5334.0, 5498.0, 5255.0, 5593.0,

						5718.0, 5299.0, 5418.0, 5332.0, 5566.0, 5386.0, 5520.0, 5568.0, 5381.0, 5607.0, 5685.0, 5695.0, 5420.0, 5666.0, 5583.0, 5631.0, 5648.0, 5639.0, 5306.0, 5636.0, 5301.0, 5294.0, 5327.0, 5458.0, 5680.0, 5282.0, 5350.0, 5562.0, 5610.0, 5678.0, 5433.0, 5367.0, 5710.0, 5533.0, 5707.0, 5442.0, 5641.0, 5595.0, 5289.0, 5681.0, 5653.0, 5336.0, 5602.0, 5340.0, 5396.0, 5619.0, 5475.0, 5613.0, 5634.0, 5508.0, 5625.0, 5379.0, 5454.0, 5660.0, 5449.0, 5572.0, 5324.0, 5615.0, 5261.0, 5321.0, 5297.0, 5628.0, 5688.0, 5538.0, 5544.0, 5476.0, 5516.0, 5531.0, 5492.0, 5689.0, 5608.0, 5374.0, 5419.0, 5563.0, 5542.0, 5312.0, 5254.0, 5585.0, 5446.0, 5430.0, 5633.0, 5676.0, 5328.0, 5316.0, 5390.0, 5344.0, 5362.0, 5401.0, 5380.0, 5486.0, 5452.0, 5597.0, 5506.0, 5540.0, 5463.0 (number of hits: 7)
27	5270	9	1	333	1	5417.0, 5420.0, 5253.0, 5488.0, 5563.0, 5691.0, 5285.0, 5456.0, 5362.0, 5527.0, 5300.0, 5437.0, 5447.0, 5678.0, 5473.0, 5543.0, 5568.0, 5689.0, 5291.0, 5716.0, 5454.0, 5448.0, 5428.0, 5635.0, 5265.0, 5442.0, 5701.0, 5705.0, 5552.0, 5411.0, 5349.0, 5310.0, 5266.0, 5280.0, 5262.0, 5609.0, 5541.0, 5418.0, 5365.0, 5649.0, 5478.0, 5462.0, 5423.0, 5259.0, 5251.0, 5514.0, 5313.0, 5666.0, 5673.0, 5668.0, 5617.0, 5404.0, 5515.0, 5558.0, 5591.0, 5381.0, 5289.0, 5471.0, 5394.0, 5624.0, 5314.0, 5432.0, 5366.0, 5345.0, 5508.0, 5584.0, 5619.0, 5525.0, 5309.0, 5706.0, 5264.0, 5632.0, 5372.0, 5648.0, 5723.0, 5344.0, 5553.0, 5339.0, 5452.0, 5378.0, 5324.0, 5492.0, 5646.0, 5656.0, 5406.0, 5574.0, 5538.0, 5615.0, 5412.0, 5677.0, 5403.0, 5407.0, 5493.0, 5692.0, 5256.0, 5276.0, 5290.0, 5311.0, 5522.0, 5642.0 (number of hits: 10)
28	5270	9	1	333	1	5393.0, 5332.0, 5449.0, 5626.0, 5653.0, 5329.0, 5564.0, 5530.0, 5514.0, 5558.0, 5528.0, 5570.0, 5372.0, 5555.0, 5291.0, 5667.0, 5723.0, 5706.0, 5609.0, 5635.0, 5321.0, 5362.0, 5366.0, 5525.0, 5665.0, 5647.0, 5597.0, 5370.0, 5599.0, 5432.0, 5326.0, 5722.0, 5252.0, 5654.0, 5296.0, 5718.0, 5572.0, 5319.0, 5498.0, 5325.0, 5285.0, 5259.0, 5543.0, 5509.0, 5286.0, 5524.0, 5464.0, 5501.0, 5551.0, 5323.0, 5690.0, 5418.0, 5398.0, 5451.0, 5407.0, 5617.0, 5622.0, 5385.0, 5658.0, 5416.0, 5585.0, 5304.0, 5532.0, 5506.0, 5711.0, 5339.0, 5439.0, 5702.0, 5373.0, 5297.0, 5625.0, 5314.0, 5632.0, 5445.0, 5478.0, 5607.0, 5272.0, 5413.0, 5703.0, 5510.0, 5468.0, 5493.0, 5566.0, 5465.0, 5431.0, 5376.0, 5440.0, 5500.0, 5521.0, 5584.0,

						5499.0, 5684.0, 5435.0, 5365.0, 5588.0, 5459.0, 5714.0, 5575.0, 5535.0, 5347.0 (number of hits: 7)
29	5270	9	1	333	1	5464.0, 5490.0, 5305.0, 5310.0, 5294.0, 5302.0, 5286.0, 5381.0, 5397.0, 5676.0, 5720.0, 5383.0, 5252.0, 5442.0, 5337.0, 5659.0, 5361.0, 5435.0, 5379.0, 5621.0, 5420.0, 5568.0, 5590.0, 5596.0, 5274.0, 5547.0, 5569.0, 5680.0, 5606.0, 5700.0, 5575.0, 5488.0, 5258.0, 5675.0, 5709.0, 5637.0, 5493.0, 5460.0, 5472.0, 5322.0, 5541.0, 5321.0, 5348.0, 5377.0, 5431.0, 5559.0, 5432.0, 5406.0, 5366.0, 5390.0, 5489.0, 5403.0, 5509.0, 5510.0, 5297.0, 5269.0, 5250.0, 5382.0, 5427.0, 5467.0, 5257.0, 5523.0, 5540.0, 5290.0, 5526.0, 5608.0, 5439.0, 5375.0, 5723.0, 5582.0, 5695.0, 5657.0, 5707.0, 5631.0, 5306.0, 5644.0, 5422.0, 5333.0, 5260.0, 5641.0, 5353.0, 5518.0, 5356.0, 5638.0, 5633.0, 5560.0, 5625.0, 5589.0, 5714.0, 5514.0, 5672.0, 5447.0, 5533.0, 5446.0, 5636.0, 5678.0, 5486.0, 5584.0, 5498.0, 5545.0 (number of hits: 8)
30	5270	9	1	333	1	5497.0, 5564.0, 5610.0, 5473.0, 5506.0, 5271.0, 5592.0, 5325.0, 5285.0, 5379.0, 5270.0, 5562.0, 5425.0, 5340.0, 5328.0, 5488.0, 5720.0, 5307.0, 5714.0, 5546.0, 5653.0, 5483.0, 5310.0, 5393.0, 5583.0, 5495.0, 5304.0, 5371.0, 5555.0, 5671.0, 5508.0, 5615.0, 5609.0, 5528.0, 5464.0, 5621.0, 5502.0, 5596.0, 5640.0, 5523.0, 5256.0, 5303.0, 5382.0, 5698.0, 5405.0, 5409.0, 5335.0, 5423.0, 5467.0, 5482.0, 5442.0, 5366.0, 5321.0, 5282.0, 5719.0, 5300.0, 5547.0, 5320.0, 5549.0, 5509.0, 5599.0, 5346.0, 5452.0, 5710.0, 5441.0, 5658.0, 5306.0, 5577.0, 5286.0, 5624.0, 5297.0, 5399.0, 5674.0, 5470.0, 5663.0, 5552.0, 5414.0, 5254.0, 5571.0, 5376.0, 5569.0, 5659.0, 5489.0, 5299.0, 5477.0, 5628.0, 5298.0, 5290.0, 5538.0, 5337.0, 5723.0, 5397.0, 5471.0, 5257.0, 5553.0, 5699.0, 5349.0, 5358.0, 5288.0, 5463.0 (number of hits: 13)

5550 MHz, 40 MHz Bandwidth

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

Please refer to the following statistical tables:

Table-1 Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	57	1	938	1
2	5550	72	1	738	1
3	5550	62	1	858	1
4	5550	86	1	618	1
5	5550	18	1	3066	1
6	5550	99	1	538	1
7	5550	67	1	798	1
8	5550	83	1	638	1
9	5550	92	1	578	1
10	5550	74	1	718	1
11	5550	78	1	678	1
12	5550	59	1	898	1
13	5550	76	1	698	1
14	5550	61	1	878	1
15	5550	68	1	778	1
16	5550	38	1	1417	1
17	5550	22	1	2413	1
18	5550	47	1	1135	1
19	5550	37	1	1431	1
20	5550	20	1	2643	1
21	5550	54	1	992	1
22	5550	37	1	1450	1
23	5550	40	1	1332	1
24	5550	20	1	2774	1
25	5550	39	1	1386	1
26	5550	84	1	635	1
27	5550	31	1	1744	1
28	5550	27	1	2007	1
29	5550	50	1	1058	1
30	5550	52	1	1034	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	28	3.2	164	1
2	5550	25	1.9	202	1
3	5550	26	1.8	192	1
4	5550	27	2.5	196	1
5	5550	28	1.7	176	1
6	5550	28	2.1	202	1
7	5550	29	3.7	190	1
8	5550	29	3.4	210	1
9	5550	23	3	155	1
10	5550	25	2.3	199	1
11	5550	27	3.3	162	1
12	5550	27	2.9	224	1
13	5550	25	1.8	211	1
14	5550	23	2.6	205	1
15	5550	24	1.6	157	1
16	5550	26	2.9	191	1
17	5550	25	2	180	1
18	5550	28	4.4	187	1
19	5550	27	3.9	226	1
20	5550	26	4.3	164	1
21	5550	23	3.6	151	1
22	5550	29	2.8	157	1
23	5550	27	1.8	174	1
24	5550	27	3.1	164	1
25	5550	24	1.3	164	1
26	5550	28	2.1	215	1
27	5550	23	1.7	223	1
28	5550	29	3.6	192	1
29	5550	25	1	191	1
30	5550	29	3.2	220	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	18	9.4	201	1
2	5550	17	7.2	256	1
3	5550	16	8.7	406	1
4	5550	16	8.5	456	1
5	5550	16	9.2	450	1
6	5550	16	9.3	425	1
7	5550	17	8.4	453	1
8	5550	17	7.1	453	1
9	5550	18	7.8	333	1
10	5550	18	9	466	1
11	5550	16	6.9	253	1
12	5550	16	6.2	479	1
13	5550	16	8.9	217	1
14	5550	18	8.9	263	1
15	5550	17	6.8	317	1
16	5550	16	9.8	343	1
17	5550	16	6.9	395	1
18	5550	17	9.6	417	1
19	5550	17	7	443	1
20	5550	17	7.8	392	1
21	5550	16	8.5	353	1
22	5550	18	9.5	260	1
23	5550	17	8	237	1
24	5550	16	7.3	338	1
25	5550	16	8.1	450	1
26	5550	16	7.1	258	1
27	5550	17	7.2	219	1
28	5550	18	7.5	212	1
29	5550	17	9.6	421	1
30	5550	16	9.7	250	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	14	18	229	1
2	5550	15	12.4	337	1
3	5550	12	13.8	219	1
4	5550	14	11.5	242	1
5	5550	14	19.7	270	1
6	5550	16	12.6	423	1
7	5550	14	11.7	288	1
8	5550	12	19.7	252	1
9	5550	14	12	405	1
10	5550	13	19.2	403	1
11	5550	14	11	408	1
12	5550	16	15.8	446	1
13	5550	15	15.3	240	1
14	5550	15	18.3	407	1
15	5550	13	17.7	382	1
16	5550	14	19.4	499	1
17	5550	14	14.6	308	1
18	5550	16	15.8	371	1
19	5550	16	19	200	1
20	5550	12	12.1	423	1
21	5550	12	17.4	397	1
22	5550	15	16.3	454	1
23	5550	14	12	333	1
24	5550	13	15.1	215	1
25	5550	14	14.4	427	1
26	5550	13	15.1	256	1
27	5550	14	16.5	279	1
28	5550	12	16.8	356	1
29	5550	16	19.9	270	1
30	5550	14	17.4	418	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	51.3			0.775968	1
1	2	8	65.9	1088		1.288665	
2	2	9	66.8	1851		1.723039	
3	1	12	60.8			2.741468	
4	3	12	96.6	1595	1671	4.203731	
5	1	15	91.2			5.101029	
6	2	20	82.7	1981		5.306807	
7	1	7	56.8			6.410624	
8	1	19	81.3			7.158377	
9	3	5	67.3	1905	1829	8.195725	
10	1	14	58.2			9.253694	
11	3	11	56.4	1174	1182	10.083531	
12	3	7	54.8	1421	1673	10.914497	
13	1	16	75.9			11.68843	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	51.2			0.690987	1
1	2	11	53	1200		1.927178	
2	2	16	91.9	1060		2.576298	
3	1	8	57.6			3.937712	
4	1	11	80.8			5.041963	
5	2	20	58.9	1602		6.133929	
6	3	8	94	1004	1537	7.616964	
7	2	11	61	1030		8.912994	
8	3	12	89.5	1174	1921	9.748527	
9	1	16	63.8			10.921846	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	63.6	1881	1943	0.055587	
1	2	5	97.9	1083		1.325445	
2	2	18	70.1	1334		1.598375	
3	3	15	68.2	1595	1556	2.348435	
4	2	11	59	1698		3.220107	
5	2	17	84.6	1838		3.909081	
6	2	13	67.9	1009		4.357739	
7	1	17	65.1			5.39288	
8	2	19	57.6	1627		5.899195	1
9	3	5	50.4	1141	1329	6.48931	
10	3	20	57.2	1891	1822	7.43178	
11	2	15	57.3	1154		8.399969	
12	2	17	74.1	1699		8.551113	
13	2	9	53.3	1320		9.579072	
14	3	14	66.9	1271	1123	10.418022	
15	1	20	95.5			10.921587	
16	1	7	62.5			11.294944	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	75.2	1912	1024	0.293069	
1	3	8	81.1	1605	1421	2.006041	
2	2	7	79.4	1709		2.754133	
3	1	10	52.2			4.645312	
4	1	16	98.8			5.523715	1
5	2	17	79.4	1144		7.116844	
6	3	10	71.4	1862	1877	9.018186	
7	2	11	71	1938		10.098899	
8	3	10	54.1	1846	1830	11.230865	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	67.5	1312		1.267256	1
1	3	10	99.7	1376	1593	1.761316	
2	2	14	65.9	1332		3.419389	
3	1	13	66.6			4.633643	
4	1	10	79.3			6.927654	
5	2	6	67.2	1019		7.537414	
6	1	19	62.6			9.74039	
7	1	10	63.5			11.78511	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	79.7	1427	1736	0.521553	1
1	2	14	85	1098		1.118496	
2	3	5	77.2	1961	1313	2.687197	
3	3	19	80.3	1835	1229	3.653834	
4	3	17	70.7	1860	1957	4.028425	
5	3	18	79.7	1611	1369	5.282287	
6	3	18	72.2	1896	1045	6.235541	
7	3	9	87.6	1604	1466	6.775444	
8	3	5	96.7	1167	1370	7.806458	
9	1	8	78.5			8.448742	
10	3	12	52.4	1173	1006	9.744901	
11	3	19	94	1681	1254	10.853941	
12	2	7	89.9	1463		11.645284	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	94.1			0.60318	
1	2	8	78.4	1595		1.002234	
2	2	12	96.2	1313		1.592056	
3	3	18	64.4	1450	1758	2.272824	
4	3	17	88.9	1695	1614	2.945859	
5	2	14	63.8	1611		4.197637	
6	2	10	55.2	1783		4.608417	
7	3	18	50.3	1429	1356	5.18245	
8	2	15	89.6	1592		5.65152	1
9	2	17	57.2	1666		6.665678	
10	3	11	58.2	1139	1685	7.671211	
11	2	15	57.9	1556		7.982215	
12	3	7	51.5	1201	1620	9.117547	
13	2	17	86.9	1301		9.411748	
14	2	9	93.7	1584		10.486083	
15	1	14	54.1			10.682504	
16	2	14	73	1657		11.883273	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	59.5	1269		0.202699	
1	3	14	58.4	1456	1310	0.792314	
2	1	12	51.6			1.556586	
3	3	18	91.1	1985	1103	2.475197	
4	2	9	96.5	1026		3.055512	
5	2	6	95.2	1787		3.733908	
6	2	15	54.9	1007		4.663891	
7	3	12	78.4	1758	1488	5.242713	
8	3	12	58.2	1412	1792	6.10241	1
9	3	16	85.8	1599	1718	6.756121	
10	1	11	85.4			7.542158	
11	3	5	75.3	1645	1746	8.232213	
12	2	18	66.8	1607		8.890927	
13	2	20	98.7	1483		9.827428	
14	1	12	61.3			10.405206	
15	2	15	93.5	1873		10.949972	
16	3	15	53	1722	1664	11.610578	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	58.2	1143		0.067416	
1	2	6	92.6	1423		0.817967	
2	2	18	56.3	1008		1.79826	
3	2	12	77	1706		3.114547	
4	2	10	80.5	1997		3.454484	
5	2	14	52.9	1925		4.021381	
6	2	18	98.7	1349		5.52896	
7	1	8	72.5			5.624597	1
8	3	10	73.8	1360	1154	6.439067	
9	2	17	72.3	1249		7.816622	
10	2	14	95.2	1134		8.316756	
11	2	16	71.6	1347		8.987128	
12	2	19	70.7	1160		9.851763	
13	1	10	98.5			10.848918	
14	2	18	53.2	1518		11.397276	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	51.8	1685		0.111896	1
1	2	6	55.8	1833		1.4228	
2	2	10	69.5	1589		3.41522	
3	1	19	86.7			4.701309	
4	1	13	94.9			5.295376	
5	3	14	57.4	1776	1872	6.859009	
6	2	19	61.2	1070		8.137072	
7	3	19	85.3	1733	1632	9.248924	
8	2	14	67.9	1433		9.771653	
9	2	15	98	1561		11.334136	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	99.8	1105		0.620454	1
1	2	19	57.4	1842		1.188457	
2	1	9	65.5			2.101825	
3	1	10	54.1			2.44447	
4	1	10	94.8			3.010232	
5	1	8	58			3.729539	
6	3	16	83.6	1610	1193	4.277571	
7	1	12	55			5.531543	
8	2	7	68.7	1874		5.750778	
9	3	8	62.5	1355	1207	6.695247	
10	3	6	78.9	1198	1373	7.463432	
11	2	20	74.1	1535		7.933084	
12	2	10	85.4	1611		8.610822	
13	2	19	54	1084		9.291261	
14	1	19	60.9			10.416549	
15	1	18	97.5			10.775428	
16	2	13	75.9	1338		11.882789	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	71.6	1437	1909	0.779524	1
1	1	6	75.4			1.062501	
2	2	18	59.2	1061		2.012212	
3	2	16	60.5	1914		3.003592	
4	2	12	73.4	1353		4.869765	
5	3	12	83.4	1839	1564	5.699228	
6	3	9	88.8	1257	1043	6.233184	
7	3	14	73.7	1851	1385	7.215913	
8	2	16	98.2	1896		8.365808	
9	2	20	98.9	1734		9.091352	
10	1	5	82.7			10.754671	
11	2	9	92	1882		11.421021	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	52.9	1643		0.164896	1
1	1	19	59.3			1.155396	
2	2	7	87.3	1332		1.728879	
3	3	17	94.1	1576	1888	2.829005	
4	2	13	90.7	1067		3.473195	
5	2	9	53.8	1739		4.411215	
6	1	10	96.3			5.010826	
7	1	18	68.8			6.167941	
8	2	16	55.1	1814		6.987571	
9	3	5	63.9	1689	1601	7.378446	
10	2	16	91	1717		8.727042	
11	2	17	97.4	1831		9.360108	
12	2	18	79.4	1557		9.784252	
13	2	13	89.6	1758		10.965736	
14	1	8	55.6			11.354813	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	56	1162	1839	1.093943	1
1	2	15	99.1	1700		1.793479	
2	3	16	89.2	1006	1888	3.718743	
3	2	14	59.3	1363		5.295234	
4	2	12	83	1212		6.590258	
5	2	6	58.4	1130		7.388001	
6	2	9	92.2	1472		8.994682	
7	2	12	52.4	1884		10.376312	
8	1	6	68.3			10.870861	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	51	1934	1130	1.140906	1
1	2	13	81.1	1443		2.003308	
2	2	14	52.3	1429		3.532134	
3	3	14	54.9	1225	1690	3.956456	
4	3	13	93.6	1001	1313	5.724101	
5	3	19	66.6	1653	1741	7.134306	
6	3	15	54.9	1365	1187	8.152505	
7	3	15	95.9	1860	1457	9.267184	
8	3	11	98.4	1973	1195	9.732759	
9	3	13	83.3	1962	1291	10.922	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	50.2			0.606587	1
1	3	6	77.3	1687	1269	1.487685	
2	2	9	64.5	1717		2.334057	
3	2	14	99.4	1241		3.193237	
4	2	10	88.4	1318		4.259767	
5	2	7	69.2	1680		4.307561	
6	1	19	52.7			5.212749	
7	3	8	64.1	1841	1956	6.687028	
8	2	19	87.7	1208		7.193353	
9	2	18	80.8	1830		8.260402	
10	1	18	66.1			8.983366	
11	2	17	86.2	1869		10.079174	
12	3	8	74.8	1088	1228	10.890987	
13	1	9	66.8			11.272895	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	88.8			0.34628	1
1	2	7	81.2	1180		1.806279	
2	1	18	75.8			1.994601	
3	1	16	78.1			2.817362	
4	2	6	85.3	1707		4.594301	
5	2	15	96.6	1512		5.224881	
6	1	9	68.9			6.184979	
7	3	5	89	1063	1905	6.92868	
8	3	7	76.4	1777	1099	7.923503	
9	1	17	67.8			8.400673	
10	2	9	84.2	1824		9.973487	
11	2	9	82.2	1834		10.560432	
12	2	17	86.7	1514		11.544859	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	87.9	1670		0.772281	1
1	2	14	51.4	1907		1.107495	
2	3	11	69.1	1575	1253	1.684073	
3	2	6	51.7	1465		3.057546	
4	2	18	52.8	1168		3.27326	
5	2	20	78.6	1688		4.567464	
6	1	16	84.2			5.05726	
7	2	18	87.5	1801		6.269284	
8	1	17	59.5			6.982961	
9	2	15	51.7	1398		7.548077	
10	1	9	92.6			8.117618	
11	3	12	67.1	1908	1808	8.811696	
12	2	8	63.9	1459		9.766218	
13	3	17	98.7	1129	1913	10.640886	
14	3	5	65.3	1076	1319	11.598054	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	70.9			1.289552	1
1	1	16	79.8			2.729401	
2	1	10	68.5			4.460828	
3	1	11	55.8			5.931828	
4	1	16	77.9			6.714958	
5	2	9	62.3	1165		8.802101	
6	2	9	75.2	1579		9.689179	
7	1	6	60.3			10.772968	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	95.8	1275		0.427214	
1	2	20	89.8	1617		1.397982	
2	1	5	60.4			1.688054	
3	3	13	88.2	1552	1732	2.945428	
4	3	11	96	1340	1654	3.405483	
5	2	8	63.1	1721		4.366219	
6	2	11	56.1	1144		4.911977	
7	3	11	56.4	1855	1785	5.712843	1
8	2	6	58	1313		6.963746	
9	1	13	75.4			7.965845	
10	3	7	64.1	1196	1933	8.266079	
11	2	6	85.6	1726		9.027482	
12	2	20	95.4	1333		10.353116	
13	3	13	64.2	1600	1120	10.891933	
14	1	8	70.6			11.684125	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	84.4	1543	1321	0.368718	
1	3	19	91.7	1111	1649	1.102998	
2	1	9	90.7			1.816629	
3	2	9	92.2	1209		2.121373	
4	3	6	99.6	1976	1676	3.282759	
5	1	17	78.6			3.75221	
6	2	18	72.8	1047		4.234468	
7	3	6	54.5	1100	1703	4.989791	
8	3	8	99.6	1437	1823	5.378003	
9	2	10	63.2	1184		6.197599	1
10	1	17	96.3			6.981189	
11	2	17	71.8	1882		7.480729	
12	1	15	88.3			8.431796	
13	1	18	58.1			9.284006	
14	2	15	77.1	1552		9.550824	
15	2	11	64.8	1850		10.110631	
16	2	6	92.7	1262		11.159778	
17	1	19	90.7			11.716712	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	66.1	1203		0.493554	1
1	1	17	76.1			2.044093	
2	3	12	77.9	1459	1334	3.395537	
3	2	18	81.3	1088		4.757838	
4	3	20	57.3	1871	1576	4.98245	
5	3	7	75.2	1360	1339	6.161625	
6	1	19	83			7.320744	
7	3	9	72.6	1698	1411	8.728905	
8	1	15	67.5			10.355482	
9	3	16	94.4	1142	1994	11.886716	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	58.4	1472		0.530461	1
1	1	15	55.9			1.133864	
2	1	13	89.1			2.389211	
3	1	8	67.3			3.953246	
4	2	16	86.6	1623		4.469594	
5	2	10	93.8	1677		6.075254	
6	1	14	59.3			7.633215	
7	1	7	100			8.222459	
8	1	9	96.7			9.427872	
9	1	12	73.3			10.775023	
10	3	13	92.8	1370	1570	11.365749	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	72.8	1971		0.375767	
1	1	18	72.1			0.80214	
2	2	17	86.9	1732		1.52433	
3	3	7	60.7	1073	1319	2.143528	
4	2	19	88	1448		2.602679	
5	2	18	99.5	1142		3.614464	
6	3	19	94	1594	1611	3.801461	
7	3	16	52.1	1368	1648	4.76123	
8	3	12	68.4	1660	1014	5.509346	
9	2	14	91.2	1507		6.300419	1
10	1	9	53.4			6.821056	
11	2	17	95.9	1712		7.490994	
12	2	13	98.9	1721		7.692649	
13	1	13	78.8			8.542872	
14	1	16	99.4			8.962474	
15	1	14	96.9			9.89005	
16	2	15	97.2	1470		10.270701	
17	2	15	71.6	1202		10.911553	
18	2	10	97.3	1002		11.900309	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	58.9			0.021817	1
1	2	7	93.7	1816		1.06237	
2	1	18	85			1.211916	
3	2	16	68.1	1992		2.159072	
4	1	7	53.5			2.469666	
5	2	20	87.6	1366		3.400561	
6	2	20	99.1	1134		4.105855	
7	2	19	73.4	1165		4.78712	
8	3	10	77.1	1413	1218	5.311661	
9	1	12	93.4			5.601219	
10	2	13	80.4	1435		6.322066	
11	3	17	59.7	1915	1936	6.630688	
12	2	6	63.1	1131		7.721509	
13	3	12	75.6	1628	1724	8.267866	
14	3	17	60.5	1774	1993	8.921341	
15	2	10	93.4	1326		9.334996	
16	3	7	85.8	1965	1310	10.122359	
17	2	17	65.4	1061		10.633078	
18	1	20	96.1			10.853739	
19	1	16	69.2			11.739014	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	64.2	1464		0.362209	1
1	2	18	98.6	1462		2.053255	
2	3	9	87.7	1409	1384	2.46528	
3	2	15	74.7	1037		3.831223	
4	2	10	75.7	1863		5.580046	
5	1	14	64.2			6.737549	
6	2	18	93.2	1703		7.731231	
7	2	16	56.3	1851		8.759807	
8	1	18	57.3			10.412909	
9	3	16	98.4	1485	1466	10.982072	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	52.7			0.256551	1
1	2	18	78.3	1034		0.780251	
2	2	10	91.9	2000		2.01171	
3	3	7	88.5	1228	1984	2.556572	
4	1	18	79.1			3.179218	
5	2	12	81.1	1485		4.015149	
6	1	6	60.1			5.034336	
7	2	6	97.7	1580		5.262725	
8	2	13	63	1088		6.272813	
9	1	15	83.2			6.896329	
10	1	15	57.9			8.170323	
11	2	18	82.2	1377		8.623363	
12	2	8	70.4	1073		9.719442	
13	3	15	69.7	1540	1436	10.432904	
14	3	7	77	1709	1283	10.563604	
15	1	13	92.7			11.381781	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	77.8			1.32827	1
1	2	14	84.6	1299		2.619536	
2	2	14	85.6	1708		3.800125	
3	2	17	73.8	1952		4.286761	
4	1	18	55.9			5.442908	
5	2	15	60	1567		7.622479	
6	3	8	65.4	1218	1784	8.435436	
7	3	11	63.4	1713	1613	10.364883	
8	3	13	85.6	1849	1278	11.124912	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	82.7			0.439454	1
1	3	17	92.8	1217	1254	1.512829	
2	3	19	56.2	1232	1812	3.014765	
3	3	15	79.4	1094	1484	4.416917	
4	2	11	65.5	1029		6.00773	
5	2	12	94.5	1640		7.539473	
6	2	15	89.3	1159		8.310918	
7	2	6	99.8	1110		10.203659	
8	3	7	99.1	1659	1302	11.457832	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	88.9	1276	1526	0.356376	1
1	2	18	90.6	1345		1.024824	
2	2	13	60.1	1731		1.768592	
3	3	10	59.2	1740	1596	2.352222	
4	3	8	51	1367	1738	2.847561	
5	2	7	67.5	1324		3.480456	
6	3	18	96	1644	1827	4.368579	
7	2	12	85.4	1869		4.92883	
8	2	10	57.3	1346		5.918367	
9	2	12	68.5	1889		6.284538	
10	3	6	93.8	1734	1989	6.684151	
11	2	19	66.1	1913		7.950263	
12	2	15	54.2	1066		8.553453	
13	3	17	55.5	1340	1135	8.860201	
14	3	16	93.7	1514	1079	9.975572	
15	1	11	94.9			10.300352	
16	2	14	80.5	1797		10.856106	
17	2	17	56	1923		11.509612	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5550	9	1	333	1	5435.0, 5642.0, 5518.0, 5426.0, 5283.0, 5372.0, 5293.0, 5511.0, 5567.0, 5381.0, 5264.0, 5298.0, 5440.0, 5500.0, 5634.0, 5526.0, 5552.0, 5675.0, 5621.0, 5302.0, 5661.0, 5394.0, 5669.0, 5702.0, 5706.0, 5382.0, 5602.0, 5499.0, 5583.0, 5424.0, 5664.0, 5569.0, 5438.0, 5723.0, 5454.0, 5277.0, 5327.0, 5484.0, 5391.0, 5538.0, 5259.0, 5717.0, 5474.0, 5427.0, 5641.0, 5637.0, 5623.0, 5654.0, 5315.0, 5329.0, 5301.0, 5597.0, 5649.0, 5366.0, 5345.0, 5269.0, 5703.0, 5617.0, 5322.0, 5403.0, 5506.0, 5467.0, 5611.0, 5607.0, 5405.0, 5663.0, 5377.0, 5365.0, 5295.0, 5362.0, 5304.0, 5251.0, 5594.0, 5317.0, 5279.0, 5373.0, 5321.0, 5631.0, 5579.0, 5712.0, 5542.0, 5655.0, 5671.0, 5367.0, 5586.0, 5470.0, 5517.0, 5580.0, 5679.0, 5619.0, 5476.0, 5645.0, 5418.0, 5299.0, 5330.0, 5463.0, 5535.0, 5584.0, 5561.0, 5428.0 (number of hits: 7)
2	5550	9	1	333	1	5300.0, 5664.0, 5563.0, 5682.0, 5575.0, 5599.0, 5519.0, 5352.0, 5359.0, 5366.0, 5603.0, 5398.0, 5355.0, 5637.0, 5252.0, 5602.0, 5708.0, 5319.0, 5267.0, 5280.0, 5676.0, 5667.0, 5374.0, 5317.0, 5607.0, 5320.0, 5316.0, 5640.0, 5700.0, 5579.0, 5298.0, 5382.0, 5530.0, 5416.0, 5499.0, 5481.0, 5442.0, 5684.0, 5550.0, 5657.0, 5282.0, 5715.0, 5360.0, 5562.0, 5586.0, 5301.0, 5281.0, 5722.0, 5633.0, 5258.0, 5303.0, 5323.0, 5622.0, 5518.0, 5356.0, 5288.0, 5507.0, 5459.0, 5644.0, 5349.0, 5561.0, 5690.0, 5501.0, 5546.0, 5569.0, 5665.0, 5337.0, 5668.0, 5326.0, 5596.0, 5570.0, 5568.0, 5401.0, 5697.0, 5510.0, 5379.0, 5364.0, 5350.0, 5655.0, 5495.0, 5695.0, 5339.0, 5699.0, 5397.0, 5341.0, 5511.0, 5573.0, 5662.0, 5347.0, 5628.0, 5469.0, 5528.0, 5593.0, 5564.0, 5653.0, 5253.0, 5683.0, 5348.0, 5386.0, 5274.0 (number of hits: 9)
3	5550	9	1	333	1	5611.0, 5546.0, 5640.0, 5650.0, 5301.0, 5313.0, 5498.0, 5480.0, 5430.0, 5456.0, 5595.0, 5310.0, 5692.0, 5487.0, 5534.0, 5429.0, 5385.0, 5298.0, 5263.0, 5371.0, 5341.0, 5272.0, 5706.0, 5418.0, 5269.0, 5436.0, 5251.0, 5342.0, 5476.0, 5281.0, 5283.0, 5700.0, 5497.0, 5276.0, 5267.0, 5504.0, 5290.0, 5555.0, 5509.0, 5368.0, 5450.0, 5680.0, 5414.0, 5265.0, 5366.0, 5468.0, 5519.0, 5708.0, 5543.0, 5334.0, 5604.0, 5324.0, 5357.0, 5572.0, 5343.0,

						5574.0, 5693.0, 5663.0, 5337.0, 5488.0, 5299.0, 5715.0, 5391.0, 5395.0, 5540.0, 5397.0, 5583.0, 5484.0, 5585.0, 5500.0, 5466.0, 5311.0, 5525.0, 5410.0, 5424.0, 5491.0, 5336.0, 5665.0, 5628.0, 5347.0, 5689.0, 5355.0, 5688.0, 5609.0, 5528.0, 5557.0, 5398.0, 5545.0, 5314.0, 5677.0, 5440.0, 5499.0, 5264.0, 5432.0, 5273.0, 5373.0, 5551.0, 5627.0, 5448.0, 5408.0 (number of hits: 8)
4	5550	9	1	333	1	5254.0, 5622.0, 5559.0, 5583.0, 5272.0, 5474.0, 5716.0, 5557.0, 5262.0, 5496.0, 5285.0, 5712.0, 5292.0, 5460.0, 5586.0, 5505.0, 5595.0, 5322.0, 5523.0, 5483.0, 5647.0, 5451.0, 5393.0, 5420.0, 5283.0, 5409.0, 5375.0, 5290.0, 5317.0, 5597.0, 5259.0, 5641.0, 5638.0, 5611.0, 5708.0, 5521.0, 5634.0, 5456.0, 5610.0, 5302.0, 5478.0, 5423.0, 5422.0, 5678.0, 5441.0, 5273.0, 5339.0, 5602.0, 5352.0, 5673.0, 5717.0, 5624.0, 5616.0, 5568.0, 5623.0, 5459.0, 5671.0, 5693.0, 5321.0, 5311.0, 5697.0, 5425.0, 5571.0, 5452.0, 5330.0, 5662.0, 5407.0, 5344.0, 5293.0, 5532.0, 5264.0, 5326.0, 5394.0, 5368.0, 5512.0, 5544.0, 5479.0, 5687.0, 5287.0, 5536.0, 5410.0, 5562.0, 5303.0, 5379.0, 5428.0, 5628.0, 5511.0, 5429.0, 5637.0, 5517.0, 5372.0, 5615.0, 5448.0, 5484.0, 5617.0, 5416.0, 5490.0, 5508.0, 5427.0, 5689.0 (number of hits: 7)
5	5550	9	1	333	1	5285.0, 5418.0, 5678.0, 5382.0, 5611.0, 5324.0, 5292.0, 5381.0, 5345.0, 5479.0, 5546.0, 5542.0, 5341.0, 5410.0, 5562.0, 5580.0, 5440.0, 5621.0, 5452.0, 5563.0, 5615.0, 5267.0, 5549.0, 5489.0, 5639.0, 5640.0, 5262.0, 5305.0, 5408.0, 5657.0, 5644.0, 5411.0, 5421.0, 5328.0, 5444.0, 5463.0, 5357.0, 5468.0, 5699.0, 5664.0, 5348.0, 5360.0, 5654.0, 5359.0, 5484.0, 5416.0, 5496.0, 5573.0, 5351.0, 5402.0, 5254.0, 5649.0, 5572.0, 5253.0, 5643.0, 5425.0, 5472.0, 5651.0, 5592.0, 5344.0, 5682.0, 5286.0, 5609.0, 5551.0, 5436.0, 5274.0, 5491.0, 5500.0, 5384.0, 5457.0, 5432.0, 5568.0, 5704.0, 5618.0, 5641.0, 5610.0, 5660.0, 5327.0, 5679.0, 5469.0, 5674.0, 5339.0, 5288.0, 5284.0, 5420.0, 5362.0, 5287.0, 5595.0, 5473.0, 5672.0, 5367.0, 5391.0, 5531.0, 5495.0, 5349.0, 5662.0, 5574.0, 5518.0, 5369.0, 5569.0 (number of hits: 9)
6	5550	9	1	333	1	5490.0, 5557.0, 5705.0, 5411.0, 5719.0, 5441.0, 5559.0, 5529.0, 5502.0, 5372.0, 5272.0, 5562.0, 5558.0, 5429.0, 5684.0, 5452.0, 5676.0, 5563.0, 5362.0, 5425.0, 5606.0, 5618.0, 5552.0, 5292.0, 5477.0, 5514.0, 5666.0, 5313.0, 5456.0, 5323.0, 5648.0, 5629.0, 5570.0, 5273.0, 5440.0,

						5447.0, 5619.0, 5317.0, 5393.0, 5493.0, 5384.0, 5396.0, 5587.0, 5457.0, 5475.0, 5720.0, 5614.0, 5256.0, 5568.0, 5409.0, 5403.0, 5692.0, 5479.0, 5383.0, 5630.0, 5404.0, 5485.0, 5566.0, 5275.0, 5682.0, 5289.0, 5369.0, 5408.0, 5348.0, 5450.0, 5489.0, 5602.0, 5253.0, 5701.0, 5325.0, 5496.0, 5644.0, 5410.0, 5486.0, 5604.0, 5564.0, 5584.0, 5278.0, 5662.0, 5358.0, 5655.0, 5398.0, 5600.0, 5517.0, 5466.0, 5385.0, 5571.0, 5373.0, 5683.0, 5401.0, 5329.0, 5380.0, 5703.0, 5572.0, 5250.0, 5586.0, 5556.0, 5673.0, 5422.0, 5581.0 (number of hits: 10)
7	5550	9	1	333	1	5374.0, 5511.0, 5459.0, 5383.0, 5547.0, 5406.0, 5452.0, 5420.0, 5601.0, 5251.0, 5630.0, 5372.0, 5357.0, 5700.0, 5265.0, 5684.0, 5398.0, 5706.0, 5269.0, 5449.0, 5350.0, 5475.0, 5540.0, 5423.0, 5531.0, 5597.0, 5603.0, 5634.0, 5615.0, 5321.0, 5491.0, 5697.0, 5334.0, 5414.0, 5637.0, 5314.0, 5379.0, 5421.0, 5549.0, 5675.0, 5505.0, 5351.0, 5661.0, 5371.0, 5258.0, 5494.0, 5264.0, 5567.0, 5445.0, 5272.0, 5254.0, 5446.0, 5614.0, 5607.0, 5598.0, 5430.0, 5468.0, 5474.0, 5587.0, 5381.0, 5600.0, 5576.0, 5664.0, 5629.0, 5546.0, 5651.0, 5515.0, 5416.0, 5642.0, 5586.0, 5335.0, 5624.0, 5263.0, 5548.0, 5707.0, 5289.0, 5514.0, 5523.0, 5498.0, 5581.0, 5719.0, 5310.0, 5666.0, 5435.0, 5698.0, 5470.0, 5385.0, 5668.0, 5623.0, 5337.0, 5437.0, 5557.0, 5424.0, 5613.0, 5565.0, 5552.0, 5319.0, 5518.0, 5256.0, 5336.0 (number of hits: 10)
8	5550	9	1	333	1	5585.0, 5351.0, 5427.0, 5719.0, 5297.0, 5671.0, 5364.0, 5448.0, 5531.0, 5609.0, 5685.0, 5466.0, 5665.0, 5472.0, 5695.0, 5524.0, 5324.0, 5414.0, 5492.0, 5419.0, 5283.0, 5463.0, 5487.0, 5515.0, 5489.0, 5486.0, 5713.0, 5441.0, 5699.0, 5318.0, 5628.0, 5454.0, 5627.0, 5621.0, 5314.0, 5366.0, 5402.0, 5541.0, 5611.0, 5662.0, 5460.0, 5619.0, 5493.0, 5694.0, 5274.0, 5522.0, 5384.0, 5349.0, 5670.0, 5373.0, 5449.0, 5302.0, 5529.0, 5291.0, 5262.0, 5420.0, 5706.0, 5368.0, 5576.0, 5468.0, 5359.0, 5411.0, 5388.0, 5582.0, 5311.0, 5669.0, 5383.0, 5252.0, 5393.0, 5649.0, 5407.0, 5704.0, 5700.0, 5467.0, 5284.0, 5306.0, 5437.0, 5508.0, 5617.0, 5540.0, 5495.0, 5421.0, 5399.0, 5458.0, 5567.0, 5476.0, 5376.0, 5378.0, 5404.0, 5620.0, 5661.0, 5335.0, 5518.0, 5525.0, 5535.0, 5471.0, 5330.0, 5599.0, 5410.0, 5488.0 (number of hits: 5)
9	5550	9	1	333	1	5579.0, 5324.0, 5468.0, 5378.0, 5681.0, 5536.0, 5457.0, 5565.0, 5578.0, 5553.0, 5417.0, 5257.0, 5309.0, 5275.0, 5424.0,

						5268.0, 5415.0, 5717.0, 5459.0, 5358.0, 5340.0, 5440.0, 5706.0, 5273.0, 5476.0, 5573.0, 5515.0, 5517.0, 5349.0, 5707.0, 5500.0, 5408.0, 5465.0, 5314.0, 5284.0, 5258.0, 5569.0, 5598.0, 5601.0, 5269.0, 5315.0, 5263.0, 5557.0, 5446.0, 5582.0, 5354.0, 5464.0, 5724.0, 5546.0, 5698.0, 5648.0, 5396.0, 5320.0, 5261.0, 5390.0, 5398.0, 5626.0, 5596.0, 5427.0, 5590.0, 5294.0, 5454.0, 5402.0, 5265.0, 5333.0, 5662.0, 5634.0, 5373.0, 5537.0, 5421.0, 5342.0, 5683.0, 5629.0, 5473.0, 5690.0, 5429.0, 5474.0, 5303.0, 5293.0, 5486.0, 5337.0, 5308.0, 5481.0, 5638.0, 5682.0, 5264.0, 5304.0, 5594.0, 5334.0, 5520.0, 5694.0, 5423.0, 5361.0, 5431.0, 5668.0, 5411.0, 5524.0, 5657.0, 5644.0, 5606.0 (number of hits: 7)
10	5550	9	1	333	1	5413.0, 5597.0, 5631.0, 5335.0, 5615.0, 5266.0, 5565.0, 5616.0, 5649.0, 5383.0, 5356.0, 5437.0, 5691.0, 5424.0, 5600.0, 5634.0, 5599.0, 5714.0, 5624.0, 5271.0, 5324.0, 5325.0, 5259.0, 5702.0, 5540.0, 5456.0, 5452.0, 5430.0, 5674.0, 5724.0, 5313.0, 5578.0, 5664.0, 5466.0, 5567.0, 5364.0, 5260.0, 5280.0, 5517.0, 5557.0, 5372.0, 5513.0, 5541.0, 5586.0, 5500.0, 5612.0, 5411.0, 5589.0, 5341.0, 5481.0, 5507.0, 5629.0, 5524.0, 5568.0, 5361.0, 5585.0, 5561.0, 5526.0, 5521.0, 5250.0, 5712.0, 5555.0, 5532.0, 5605.0, 5382.0, 5316.0, 5343.0, 5369.0, 5252.0, 5428.0, 5590.0, 5654.0, 5511.0, 5286.0, 5494.0, 5300.0, 5671.0, 5289.0, 5685.0, 5623.0, 5684.0, 5546.0, 5367.0, 5527.0, 5652.0, 5393.0, 5404.0, 5611.0, 5299.0, 5314.0, 5638.0, 5686.0, 5409.0, 5277.0, 5384.0, 5322.0, 5406.0, 5665.0, 5474.0, 5436.0 (number of hits: 10)
11	5550	9	1	333	1	5684.0, 5381.0, 5629.0, 5360.0, 5354.0, 5541.0, 5639.0, 5658.0, 5271.0, 5410.0, 5339.0, 5306.0, 5417.0, 5300.0, 5487.0, 5351.0, 5608.0, 5402.0, 5592.0, 5711.0, 5547.0, 5594.0, 5579.0, 5506.0, 5373.0, 5544.0, 5444.0, 5517.0, 5610.0, 5674.0, 5471.0, 5521.0, 5327.0, 5329.0, 5447.0, 5524.0, 5703.0, 5652.0, 5662.0, 5291.0, 5365.0, 5460.0, 5280.0, 5551.0, 5672.0, 5294.0, 5696.0, 5716.0, 5397.0, 5552.0, 5332.0, 5536.0, 5568.0, 5477.0, 5604.0, 5352.0, 5557.0, 5449.0, 5385.0, 5331.0, 5663.0, 5441.0, 5272.0, 5416.0, 5516.0, 5499.0, 5388.0, 5298.0, 5421.0, 5473.0, 5459.0, 5561.0, 5361.0, 5466.0, 5335.0, 5721.0, 5556.0, 5394.0, 5380.0, 5600.0, 5685.0, 5529.0, 5407.0, 5462.0, 5531.0, 5575.0, 5353.0, 5255.0, 5395.0, 5358.0, 5650.0, 5563.0, 5578.0, 5413.0, 5438.0, 5659.0, 5478.0, 5606.0, 5472.0, 5408.0

						(number of hits: 12)
12	5550	9	1	333	1	5516.0, 5499.0, 5405.0, 5459.0, 5275.0, 5468.0, 5562.0, 5579.0, 5449.0, 5291.0, 5588.0, 5563.0, 5583.0, 5541.0, 5434.0, 5429.0, 5565.0, 5376.0, 5325.0, 5271.0, 5540.0, 5386.0, 5339.0, 5638.0, 5630.0, 5444.0, 5623.0, 5614.0, 5350.0, 5365.0, 5295.0, 5460.0, 5258.0, 5379.0, 5465.0, 5390.0, 5538.0, 5311.0, 5594.0, 5322.0, 5667.0, 5481.0, 5344.0, 5396.0, 5256.0, 5705.0, 5329.0, 5300.0, 5589.0, 5398.0, 5297.0, 5622.0, 5689.0, 5669.0, 5407.0, 5600.0, 5309.0, 5384.0, 5575.0, 5320.0, 5664.0, 5380.0, 5665.0, 5564.0, 5709.0, 5400.0, 5372.0, 5547.0, 5646.0, 5375.0, 5399.0, 5690.0, 5355.0, 5305.0, 5356.0, 5315.0, 5523.0, 5632.0, 5492.0, 5342.0, 5302.0, 5267.0, 5361.0, 5484.0, 5644.0, 5486.0, 5410.0, 5313.0, 5457.0, 5359.0, 5354.0, 5358.0, 5304.0, 5700.0, 5598.0, 5653.0, 5652.0, 5570.0, 5464.0, 5624.0 (number of hits: 8)
13	5550	9	1	333	1	5596.0, 5698.0, 5449.0, 5427.0, 5310.0, 5328.0, 5333.0, 5551.0, 5706.0, 5582.0, 5306.0, 5561.0, 5319.0, 5263.0, 5623.0, 5524.0, 5312.0, 5500.0, 5392.0, 5722.0, 5377.0, 5347.0, 5420.0, 5587.0, 5695.0, 5552.0, 5694.0, 5384.0, 5670.0, 5344.0, 5405.0, 5688.0, 5544.0, 5705.0, 5359.0, 5577.0, 5601.0, 5279.0, 5525.0, 5285.0, 5443.0, 5416.0, 5452.0, 5315.0, 5283.0, 5474.0, 5657.0, 5393.0, 5565.0, 5466.0, 5278.0, 5470.0, 5545.0, 5569.0, 5297.0, 5257.0, 5342.0, 5411.0, 5531.0, 5604.0, 5702.0, 5713.0, 5588.0, 5557.0, 5282.0, 5584.0, 5351.0, 5622.0, 5581.0, 5459.0, 5589.0, 5664.0, 5465.0, 5520.0, 5619.0, 5259.0, 5650.0, 5617.0, 5436.0, 5271.0, 5615.0, 5668.0, 5471.0, 5409.0, 5320.0, 5568.0, 5358.0, 5648.0, 5496.0, 5294.0, 5707.0, 5579.0, 5634.0, 5432.0, 5430.0, 5675.0, 5717.0, 5481.0, 5686.0, 5274.0 (number of hits: 10)
14	5550	9	1	333	1	5571.0, 5491.0, 5418.0, 5441.0, 5717.0, 5487.0, 5414.0, 5454.0, 5681.0, 5592.0, 5636.0, 5697.0, 5524.0, 5659.0, 5326.0, 5505.0, 5309.0, 5339.0, 5282.0, 5366.0, 5498.0, 5552.0, 5507.0, 5437.0, 5723.0, 5273.0, 5616.0, 5350.0, 5277.0, 5302.0, 5639.0, 5347.0, 5476.0, 5443.0, 5406.0, 5673.0, 5676.0, 5402.0, 5533.0, 5294.0, 5503.0, 5251.0, 5269.0, 5527.0, 5510.0, 5590.0, 5587.0, 5448.0, 5622.0, 5300.0, 5408.0, 5642.0, 5696.0, 5602.0, 5451.0, 5618.0, 5321.0, 5504.0, 5466.0, 5284.0, 5429.0, 5511.0, 5293.0, 5613.0, 5396.0, 5399.0, 5386.0, 5388.0, 5394.0, 5278.0, 5539.0, 5340.0, 5683.0, 5573.0, 5643.0, 5285.0, 5471.0, 5630.0, 5286.0, 5348.0,

						5378.0, 5320.0, 5565.0, 5689.0, 5316.0, 5578.0, 5391.0, 5635.0, 5623.0, 5328.0, 5299.0, 5584.0, 5335.0, 5354.0, 5361.0, 5373.0, 5517.0, 5612.0, 5579.0, 5669.0 (number of hits: 4)
16	5550	9	1	333	1	5541.0, 5273.0, 5381.0, 5363.0, 5295.0, 5623.0, 5473.0, 5673.0, 5528.0, 5366.0, 5643.0, 5531.0, 5354.0, 5268.0, 5685.0, 5550.0, 5580.0, 5353.0, 5680.0, 5651.0, 5288.0, 5691.0, 5633.0, 5509.0, 5297.0, 5256.0, 5329.0, 5576.0, 5441.0, 5669.0, 5472.0, 5498.0, 5665.0, 5530.0, 5635.0, 5701.0, 5584.0, 5427.0, 5604.0, 5280.0, 5420.0, 5479.0, 5663.0, 5647.0, 5270.0, 5524.0, 5260.0, 5332.0, 5369.0, 5251.0, 5368.0, 5664.0, 5252.0, 5343.0, 5596.0, 5714.0, 5503.0, 5271.0, 5359.0, 5527.0, 5342.0, 5398.0, 5380.0, 5304.0, 5277.0, 5264.0, 5566.0, 5428.0, 5500.0, 5556.0, 5269.0, 5678.0, 5373.0, 5341.0, 5677.0, 5319.0, 5499.0, 5555.0, 5323.0, 5661.0, 5495.0, 5442.0, 5511.0, 5470.0, 5506.0, 5699.0, 5710.0, 5416.0, 5625.0, 5646.0, 5382.0, 5326.0, 5718.0, 5581.0, 5606.0, 5456.0, 5619.0, 5401.0, 5488.0, 5572.0 (number of hits: 7)
17	5550	9	1	333	1	5444.0, 5358.0, 5546.0, 5268.0, 5644.0, 5357.0, 5252.0, 5516.0, 5263.0, 5633.0, 5320.0, 5304.0, 5537.0, 5309.0, 5529.0, 5647.0, 5409.0, 5720.0, 5504.0, 5496.0, 5664.0, 5371.0, 5421.0, 5265.0, 5600.0, 5316.0, 5608.0, 5708.0, 5711.0, 5601.0, 5418.0, 5378.0, 5306.0, 5523.0, 5710.0, 5551.0, 5363.0, 5653.0, 5485.0, 5300.0, 5311.0, 5438.0, 5370.0, 5719.0, 5355.0, 5579.0, 5519.0, 5482.0, 5258.0, 5641.0, 5414.0, 5518.0, 5445.0, 5419.0, 5347.0, 5562.0, 5267.0, 5589.0, 5440.0, 5412.0, 5560.0, 5703.0, 5459.0, 5314.0, 5254.0, 5350.0, 5270.0, 5665.0, 5417.0, 5410.0, 5599.0, 5509.0, 5691.0, 5483.0, 5305.0, 5448.0, 5312.0, 5532.0, 5474.0, 5712.0, 5676.0, 5462.0, 5471.0, 5407.0, 5575.0, 5260.0, 5669.0, 5364.0, 5435.0, 5408.0, 5667.0, 5685.0, 5381.0, 5607.0, 5296.0, 5336.0, 5502.0, 5699.0, 5473.0, 5617.0 (number of hits: 6)
18	5550	9	1	333	1	5483.0, 5703.0, 5517.0, 5311.0, 5541.0, 5320.0, 5491.0, 5542.0, 5567.0, 5306.0, 5605.0, 5495.0, 5487.0, 5639.0, 5488.0, 5367.0, 5278.0, 5672.0, 5460.0, 5467.0, 5304.0, 5441.0, 5378.0, 5502.0, 5458.0, 5456.0, 5284.0, 5656.0, 5384.0, 5572.0, 5591.0, 5326.0, 5282.0, 5540.0, 5267.0, 5607.0, 5545.0, 5503.0, 5485.0, 5461.0, 5424.0, 5334.0, 5505.0, 5462.0, 5571.0, 5427.0, 5584.0, 5419.0, 5546.0, 5519.0, 5420.0, 5350.0, 5500.0, 5599.0, 5524.0, 5665.0, 5520.0, 5669.0, 5455.0, 5682.0,

						5594.0, 5536.0, 5342.0, 5690.0, 5578.0, 5394.0, 5636.0, 5556.0, 5442.0, 5391.0, 5674.0, 5640.0, 5431.0, 5414.0, 5566.0, 5630.0, 5417.0, 5325.0, 5328.0, 5316.0, 5719.0, 5413.0, 5463.0, 5647.0, 5286.0, 5437.0, 5509.0, 5337.0, 5451.0, 5625.0, 5526.0, 5260.0, 5324.0, 5323.0, 5629.0, 5510.0, 5330.0, 5585.0, 5416.0, 5611.0 (number of hits: 9)
19	5550	9	1	333	1	5539.0, 5322.0, 5583.0, 5598.0, 5455.0, 5416.0, 5348.0, 5521.0, 5447.0, 5514.0, 5720.0, 5612.0, 5693.0, 5371.0, 5686.0, 5394.0, 5402.0, 5704.0, 5552.0, 5554.0, 5557.0, 5480.0, 5543.0, 5670.0, 5597.0, 5596.0, 5362.0, 5669.0, 5429.0, 5654.0, 5532.0, 5435.0, 5523.0, 5275.0, 5572.0, 5616.0, 5636.0, 5277.0, 5452.0, 5395.0, 5283.0, 5368.0, 5550.0, 5606.0, 5564.0, 5305.0, 5367.0, 5286.0, 5622.0, 5445.0, 5418.0, 5390.0, 5634.0, 5500.0, 5709.0, 5706.0, 5338.0, 5489.0, 5324.0, 5579.0, 5299.0, 5424.0, 5352.0, 5293.0, 5294.0, 5407.0, 5276.0, 5304.0, 5311.0, 5576.0, 5396.0, 5328.0, 5295.0, 5509.0, 5566.0, 5409.0, 5645.0, 5638.0, 5353.0, 5296.0, 5312.0, 5555.0, 5682.0, 5613.0, 5434.0, 5525.0, 5573.0, 5635.0, 5347.0, 5439.0, 5357.0, 5397.0, 5291.0, 5272.0, 5594.0, 5290.0, 5426.0, 5473.0, 5302.0, 5699.0 (number of hits: 10)
20	5550	9	1	333	1	5481.0, 5714.0, 5506.0, 5628.0, 5413.0, 5669.0, 5655.0, 5621.0, 5542.0, 5444.0, 5293.0, 5701.0, 5388.0, 5598.0, 5720.0, 5494.0, 5574.0, 5588.0, 5551.0, 5607.0, 5500.0, 5456.0, 5657.0, 5694.0, 5341.0, 5692.0, 5680.0, 5472.0, 5547.0, 5371.0, 5572.0, 5381.0, 5450.0, 5397.0, 5644.0, 5424.0, 5642.0, 5518.0, 5613.0, 5366.0, 5507.0, 5354.0, 5622.0, 5566.0, 5409.0, 5328.0, 5600.0, 5636.0, 5404.0, 5522.0, 5443.0, 5286.0, 5691.0, 5262.0, 5656.0, 5438.0, 5465.0, 5461.0, 5631.0, 5659.0, 5261.0, 5449.0, 5266.0, 5698.0, 5336.0, 5379.0, 5493.0, 5601.0, 5520.0, 5363.0, 5343.0, 5587.0, 5464.0, 5462.0, 5414.0, 5672.0, 5330.0, 5653.0, 5260.0, 5479.0, 5513.0, 5431.0, 5470.0, 5624.0, 5282.0, 5411.0, 5314.0, 5615.0, 5257.0, 5325.0, 5681.0, 5292.0, 5263.0, 5332.0, 5383.0, 5322.0, 5278.0, 5549.0, 5433.0, 5360.0 (number of hits: 5)
21	5550	9	1	333	1	5396.0, 5635.0, 5388.0, 5679.0, 5563.0, 5402.0, 5292.0, 5368.0, 5542.0, 5275.0, 5473.0, 5530.0, 5585.0, 5425.0, 5359.0, 5535.0, 5620.0, 5596.0, 5434.0, 5687.0, 5358.0, 5453.0, 5576.0, 5470.0, 5464.0, 5652.0, 5559.0, 5339.0, 5261.0, 5510.0, 5704.0, 5487.0, 5594.0, 5673.0, 5344.0, 5549.0, 5310.0, 5609.0, 5477.0, 5383.0,

						5327.0, 5699.0, 5480.0, 5514.0, 5364.0, 5569.0, 5641.0, 5654.0, 5390.0, 5615.0, 5611.0, 5337.0, 5370.0, 5523.0, 5273.0, 5448.0, 5688.0, 5266.0, 5353.0, 5290.0, 5506.0, 5658.0, 5336.0, 5311.0, 5456.0, 5300.0, 5595.0, 5664.0, 5709.0, 5471.0, 5403.0, 5423.0, 5319.0, 5447.0, 5525.0, 5622.0, 5412.0, 5494.0, 5481.0, 5541.0, 5316.0, 5436.0, 5304.0, 5614.0, 5495.0, 5414.0, 5262.0, 5717.0, 5483.0, 5389.0, 5678.0, 5472.0, 5508.0, 5551.0, 5442.0, 5671.0, 5438.0, 5536.0, 5672.0, 5401.0 (number of hits: 10)
22	5550	9	1	333	1	5689.0, 5457.0, 5423.0, 5509.0, 5583.0, 5372.0, 5277.0, 5334.0, 5612.0, 5289.0, 5500.0, 5548.0, 5554.0, 5451.0, 5650.0, 5503.0, 5448.0, 5620.0, 5276.0, 5715.0, 5705.0, 5519.0, 5252.0, 5386.0, 5408.0, 5353.0, 5282.0, 5445.0, 5442.0, 5475.0, 5544.0, 5512.0, 5437.0, 5399.0, 5687.0, 5630.0, 5688.0, 5571.0, 5641.0, 5474.0, 5488.0, 5465.0, 5675.0, 5524.0, 5314.0, 5382.0, 5367.0, 5654.0, 5631.0, 5364.0, 5302.0, 5690.0, 5304.0, 5518.0, 5703.0, 5254.0, 5315.0, 5639.0, 5664.0, 5494.0, 5698.0, 5432.0, 5572.0, 5652.0, 5393.0, 5385.0, 5482.0, 5471.0, 5270.0, 5410.0, 5530.0, 5380.0, 5504.0, 5588.0, 5585.0, 5318.0, 5464.0, 5603.0, 5587.0, 5422.0, 5576.0, 5470.0, 5350.0, 5328.0, 5692.0, 5517.0, 5381.0, 5395.0, 5288.0, 5285.0, 5297.0, 5402.0, 5344.0, 5635.0, 5599.0, 5483.0, 5552.0, 5272.0, 5417.0, 5551.0 (number of hits: 6)
23	5550	9	1	333	1	5440.0, 5505.0, 5576.0, 5702.0, 5455.0, 5661.0, 5603.0, 5303.0, 5665.0, 5614.0, 5541.0, 5384.0, 5657.0, 5271.0, 5712.0, 5659.0, 5294.0, 5340.0, 5370.0, 5387.0, 5693.0, 5383.0, 5520.0, 5415.0, 5632.0, 5362.0, 5685.0, 5403.0, 5534.0, 5631.0, 5639.0, 5546.0, 5719.0, 5703.0, 5664.0, 5412.0, 5681.0, 5319.0, 5347.0, 5328.0, 5669.0, 5594.0, 5446.0, 5606.0, 5312.0, 5472.0, 5584.0, 5339.0, 5264.0, 5355.0, 5411.0, 5701.0, 5477.0, 5395.0, 5717.0, 5341.0, 5506.0, 5473.0, 5434.0, 5349.0, 5418.0, 5528.0, 5608.0, 5337.0, 5504.0, 5641.0, 5628.0, 5548.0, 5637.0, 5288.0, 5441.0, 5582.0, 5598.0, 5536.0, 5496.0, 5517.0, 5342.0, 5489.0, 5406.0, 5253.0, 5404.0, 5467.0, 5577.0, 5348.0, 5427.0, 5710.0, 5567.0, 5336.0, 5560.0, 5365.0, 5445.0, 5647.0, 5673.0, 5329.0, 5556.0, 5454.0, 5275.0, 5604.0, 5430.0, 5526.0 (number of hits: 8)
24	5550	9	1	333	1	5440.0, 5429.0, 5441.0, 5516.0, 5637.0, 5587.0, 5560.0, 5581.0, 5486.0, 5265.0, 5393.0, 5611.0, 5280.0, 5402.0, 5288.0, 5364.0, 5421.0, 5600.0, 5638.0, 5387.0,

						5268.0, 5718.0, 5503.0, 5348.0, 5530.0, 5382.0, 5542.0, 5293.0, 5682.0, 5670.0, 5505.0, 5468.0, 5263.0, 5497.0, 5321.0, 5673.0, 5450.0, 5333.0, 5692.0, 5374.0, 5341.0, 5336.0, 5344.0, 5355.0, 5698.0, 5704.0, 5549.0, 5622.0, 5514.0, 5372.0, 5693.0, 5658.0, 5454.0, 5383.0, 5689.0, 5493.0, 5501.0, 5616.0, 5553.0, 5538.0, 5663.0, 5573.0, 5419.0, 5259.0, 5635.0, 5534.0, 5601.0, 5426.0, 5579.0, 5695.0, 5400.0, 5686.0, 5495.0, 5708.0, 5449.0, 5532.0, 5591.0, 5672.0, 5253.0, 5404.0, 5339.0, 5640.0, 5395.0, 5460.0, 5533.0, 5504.0, 5675.0, 5423.0, 5697.0, 5475.0, 5446.0, 5334.0, 5688.0, 5414.0, 5595.0, 5469.0, 5360.0, 5270.0, 5582.0, 5636.0 (number of hits: 9)
25	5550	9	1	333	1	5675.0, 5550.0, 5693.0, 5386.0, 5617.0, 5284.0, 5310.0, 5578.0, 5394.0, 5366.0, 5397.0, 5444.0, 5327.0, 5298.0, 5545.0, 5517.0, 5522.0, 5641.0, 5374.0, 5372.0, 5552.0, 5701.0, 5271.0, 5251.0, 5711.0, 5318.0, 5466.0, 5596.0, 5255.0, 5256.0, 5331.0, 5477.0, 5314.0, 5294.0, 5602.0, 5685.0, 5576.0, 5516.0, 5342.0, 5290.0, 5410.0, 5698.0, 5325.0, 5304.0, 5631.0, 5315.0, 5622.0, 5492.0, 5408.0, 5694.0, 5308.0, 5359.0, 5337.0, 5385.0, 5532.0, 5363.0, 5265.0, 5371.0, 5458.0, 5343.0, 5261.0, 5415.0, 5620.0, 5365.0, 5380.0, 5275.0, 5628.0, 5575.0, 5688.0, 5292.0, 5399.0, 5395.0, 5412.0, 5564.0, 5286.0, 5445.0, 5635.0, 5471.0, 5449.0, 5533.0, 5529.0, 5486.0, 5605.0, 5590.0, 5267.0, 5524.0, 5373.0, 5269.0, 5584.0, 5457.0, 5329.0, 5367.0, 5346.0, 5288.0, 5695.0, 5400.0, 5599.0, 5429.0, 5282.0, 5274.0 (number of hits: 6)
26	5550	9	1	333	1	5651.0, 5654.0, 5547.0, 5530.0, 5274.0, 5526.0, 5440.0, 5426.0, 5321.0, 5687.0, 5295.0, 5479.0, 5446.0, 5497.0, 5349.0, 5427.0, 5691.0, 5652.0, 5506.0, 5483.0, 5335.0, 5632.0, 5281.0, 5460.0, 5326.0, 5511.0, 5699.0, 5412.0, 5316.0, 5272.0, 5269.0, 5644.0, 5618.0, 5516.0, 5619.0, 5682.0, 5569.0, 5461.0, 5293.0, 5395.0, 5484.0, 5340.0, 5613.0, 5489.0, 5602.0, 5402.0, 5660.0, 5711.0, 5425.0, 5524.0, 5551.0, 5443.0, 5662.0, 5371.0, 5475.0, 5481.0, 5650.0, 5611.0, 5422.0, 5398.0, 5540.0, 5351.0, 5377.0, 5259.0, 5700.0, 5405.0, 5419.0, 5605.0, 5637.0, 5559.0, 5325.0, 5598.0, 5527.0, 5294.0, 5508.0, 5620.0, 5519.0, 5675.0, 5492.0, 5498.0, 5309.0, 5515.0, 5447.0, 5622.0, 5287.0, 5649.0, 5591.0, 5462.0, 5468.0, 5707.0, 5678.0, 5625.0, 5477.0, 5257.0, 5464.0, 5564.0, 5373.0, 5253.0, 5671.0, 5354.0 (number of hits: 7)

27	5550	9	1	333	1	5630.0, 5260.0, 5510.0, 5444.0, 5380.0, 5497.0, 5293.0, 5430.0, 5662.0, 5701.0, 5448.0, 5702.0, 5314.0, 5457.0, 5316.0, 5638.0, 5413.0, 5298.0, 5558.0, 5332.0, 5360.0, 5416.0, 5687.0, 5294.0, 5646.0, 5252.0, 5536.0, 5560.0, 5271.0, 5500.0, 5521.0, 5467.0, 5690.0, 5575.0, 5537.0, 5586.0, 5425.0, 5403.0, 5703.0, 5633.0, 5383.0, 5553.0, 5632.0, 5459.0, 5674.0, 5442.0, 5302.0, 5720.0, 5364.0, 5514.0, 5381.0, 5578.0, 5533.0, 5675.0, 5661.0, 5286.0, 5254.0, 5384.0, 5342.0, 5275.0, 5320.0, 5631.0, 5280.0, 5627.0, 5651.0, 5291.0, 5722.0, 5387.0, 5606.0, 5262.0, 5372.0, 5361.0, 5486.0, 5647.0, 5522.0, 5347.0, 5251.0, 5554.0, 5356.0, 5699.0, 5419.0, 5659.0, 5611.0, 5511.0, 5470.0, 5618.0, 5484.0, 5629.0, 5685.0, 5516.0, 5681.0, 5270.0, 5409.0, 5458.0, 5501.0, 5441.0, 5334.0, 5653.0, 5624.0, 5595.0 (number of hits: 7)
28	5550	9	1	333	1	5287.0, 5523.0, 5619.0, 5355.0, 5680.0, 5313.0, 5387.0, 5390.0, 5636.0, 5557.0, 5568.0, 5454.0, 5350.0, 5663.0, 5293.0, 5596.0, 5354.0, 5493.0, 5591.0, 5533.0, 5400.0, 5274.0, 5308.0, 5396.0, 5720.0, 5488.0, 5555.0, 5491.0, 5577.0, 5682.0, 5353.0, 5425.0, 5479.0, 5403.0, 5701.0, 5410.0, 5469.0, 5578.0, 5368.0, 5588.0, 5382.0, 5671.0, 5620.0, 5570.0, 5419.0, 5252.0, 5408.0, 5712.0, 5589.0, 5339.0, 5256.0, 5601.0, 5684.0, 5432.0, 5563.0, 5613.0, 5311.0, 5617.0, 5371.0, 5373.0, 5471.0, 5561.0, 5722.0, 5271.0, 5367.0, 5528.0, 5377.0, 5713.0, 5450.0, 5480.0, 5416.0, 5476.0, 5446.0, 5443.0, 5343.0, 5611.0, 5461.0, 5364.0, 5641.0, 5253.0, 5334.0, 5511.0, 5447.0, 5679.0, 5566.0, 5295.0, 5576.0, 5451.0, 5678.0, 5604.0, 5512.0, 5413.0, 5690.0, 5325.0, 5630.0, 5333.0, 5335.0, 5468.0, 5554.0, 5407.0 (number of hits: 8)
29	5550	9	1	333	1	5358.0, 5313.0, 5554.0, 5304.0, 5281.0, 5346.0, 5559.0, 5706.0, 5717.0, 5338.0, 5568.0, 5615.0, 5339.0, 5327.0, 5549.0, 5298.0, 5649.0, 5499.0, 5479.0, 5394.0, 5372.0, 5357.0, 5375.0, 5311.0, 5253.0, 5629.0, 5408.0, 5665.0, 5398.0, 5710.0, 5663.0, 5271.0, 5577.0, 5417.0, 5707.0, 5674.0, 5403.0, 5472.0, 5418.0, 5700.0, 5590.0, 5257.0, 5308.0, 5438.0, 5509.0, 5385.0, 5307.0, 5646.0, 5269.0, 5702.0, 5496.0, 5701.0, 5347.0, 5447.0, 5563.0, 5431.0, 5517.0, 5685.0, 5482.0, 5500.0, 5368.0, 5445.0, 5475.0, 5595.0, 5673.0, 5309.0, 5525.0, 5575.0, 5679.0, 5580.0, 5681.0, 5570.0, 5604.0, 5716.0, 5513.0, 5448.0, 5469.0, 5585.0, 5400.0, 5265.0, 5715.0, 5689.0, 5605.0, 5502.0, 5293.0,

						5328.0, 5464.0, 5537.0, 5642.0, 5330.0, 5530.0, 5519.0, 5501.0, 5572.0, 5644.0, 5614.0, 5680.0, 5514.0, 5416.0, 5486.0 (number of hits: 7)
30	5550	9	1	333	1	5531.0, 5472.0, 5443.0, 5576.0, 5694.0, 5584.0, 5311.0, 5571.0, 5252.0, 5620.0, 5389.0, 5672.0, 5541.0, 5425.0, 5656.0, 5342.0, 5292.0, 5446.0, 5666.0, 5555.0, 5470.0, 5621.0, 5711.0, 5502.0, 5344.0, 5255.0, 5645.0, 5572.0, 5706.0, 5466.0, 5412.0, 5378.0, 5489.0, 5262.0, 5426.0, 5338.0, 5447.0, 5670.0, 5386.0, 5654.0, 5397.0, 5610.0, 5601.0, 5648.0, 5687.0, 5631.0, 5520.0, 5704.0, 5686.0, 5347.0, 5308.0, 5719.0, 5259.0, 5369.0, 5350.0, 5395.0, 5677.0, 5471.0, 5558.0, 5332.0, 5491.0, 5646.0, 5436.0, 5516.0, 5310.0, 5643.0, 5387.0, 5298.0, 5272.0, 5641.0, 5652.0, 5513.0, 5617.0, 5433.0, 5477.0, 5547.0, 5559.0, 5722.0, 5636.0, 5603.0, 5300.0, 5379.0, 5582.0, 5281.0, 5623.0, 5368.0, 5268.0, 5713.0, 5399.0, 5552.0, 5481.0, 5376.0, 5431.0, 5270.0, 5314.0, 5429.0, 5363.0, 5501.0, 5432.0, 5355.0 (number of hits: 7)
1	5550	9	1	333	1	5435.0, 5642.0, 5518.0, 5426.0, 5283.0, 5372.0, 5293.0, 5511.0, 5567.0, 5381.0, 5264.0, 5298.0, 5440.0, 5500.0, 5634.0, 5526.0, 5552.0, 5675.0, 5621.0, 5302.0, 5661.0, 5394.0, 5669.0, 5702.0, 5706.0, 5382.0, 5602.0, 5499.0, 5583.0, 5424.0, 5664.0, 5569.0, 5438.0, 5723.0, 5454.0, 5277.0, 5327.0, 5484.0, 5391.0, 5538.0, 5259.0, 5717.0, 5474.0, 5427.0, 5641.0, 5637.0, 5623.0, 5654.0, 5315.0, 5329.0, 5301.0, 5597.0, 5649.0, 5366.0, 5345.0, 5269.0, 5703.0, 5617.0, 5322.0, 5403.0, 5506.0, 5467.0, 5611.0, 5607.0, 5405.0, 5663.0, 5377.0, 5365.0, 5295.0, 5362.0, 5304.0, 5251.0, 5594.0, 5317.0, 5279.0, 5373.0, 5321.0, 5631.0, 5579.0, 5712.0, 5542.0, 5655.0, 5671.0, 5367.0, 5586.0, 5470.0, 5517.0, 5580.0, 5679.0, 5619.0, 5476.0, 5645.0, 5418.0, 5299.0, 5330.0, 5463.0, 5535.0, 5584.0, 5561.0, 5428.0 (number of hits: 7)

5290 MHz, 80 MHz Bandwidth

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

Please refer to the following statistical tables:

Table-1 Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	61	1	878	1
2	5290	65	1	818	1
3	5290	59	1	898	1
4	5290	95	1	558	1
5	5290	63	1	838	1
6	5290	18	1	3066	1
7	5290	67	1	798	1
8	5290	83	1	638	1
9	5290	70	1	758	1
10	5290	86	1	618	1
11	5290	74	1	718	1
12	5290	72	1	738	1
13	5290	58	1	918	1
14	5290	68	1	778	1
15	5290	89	1	598	1
16	5290	25	1	2170	1
17	5290	22	1	2464	1
18	5290	21	1	2634	1
19	5290	68	1	781	1
20	5290	28	1	1909	1
21	5290	59	1	902	1
22	5290	30	1	1809	1
23	5290	43	1	1232	1
24	5290	31	1	1757	1
25	5290	34	1	1553	1
26	5290	21	1	2559	1
27	5290	59	1	895	1
28	5290	25	1	2195	1
29	5290	20	1	2701	1
30	5290	22	1	2416	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	23	1.1	192	1
2	5290	24	4.8	227	1
3	5290	25	1.8	225	1
4	5290	24	2.8	229	1
5	5290	23	2.2	203	1
6	5290	28	2.9	175	1
7	5290	28	4.7	194	1
8	5290	29	4.6	161	1
9	5290	26	4	201	1
10	5290	28	2.3	198	1
11	5290	24	5	212	1
12	5290	25	3.9	222	1
13	5290	29	4.4	170	1
14	5290	25	4.9	175	1
15	5290	26	2.2	182	1
16	5290	23	4.7	227	1
17	5290	23	4.1	164	1
18	5290	28	4.5	182	1
19	5290	28	1.1	198	1
20	5290	27	2.4	210	1
21	5290	27	3.4	162	1
22	5290	25	4.8	168	1
23	5290	25	4.2	189	1
24	5290	27	4.9	181	1
25	5290	23	4.9	218	1
26	5290	29	4.8	159	1
27	5290	24	4.2	224	1
28	5290	27	3.6	225	1
29	5290	25	1.3	213	1
30	5290	26	5	228	1
Detection Percentage: 100% (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	18	7.9	475	1
2	5290	17	7.3	402	1
3	5290	18	9.9	423	1
4	5290	17	8	390	1
5	5290	16	7.8	476	1
6	5290	17	6.6	483	1
7	5290	18	8.5	232	1
8	5290	17	7.3	410	1
9	5290	18	7.1	204	1
10	5290	18	9.7	371	1
11	5290	18	9.3	289	1
12	5290	17	7.1	425	1
13	5290	17	7.1	443	1
14	5290	18	6.3	456	1
15	5290	17	8.5	411	1
16	5290	17	6.4	488	1
17	5290	18	9.3	447	1
18	5290	18	7	407	1
19	5290	18	8.7	314	1
20	5290	17	6.1	328	1
21	5290	16	10	320	1
22	5290	18	9.4	203	1
23	5290	18	7.5	423	1
24	5290	16	9.7	245	1
25	5290	18	7.3	352	1
26	5290	18	7.2	345	1
27	5290	18	7.7	381	1
28	5290	18	8.6	403	1
29	5290	18	9.8	408	1
30	5290	16	6.5	448	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	15	18.6	304	1
2	5290	16	19.1	254	1
3	5290	12	17.2	450	1
4	5290	16	15.1	304	1
5	5290	15	11.2	426	1
6	5290	13	15.9	246	1
7	5290	13	13.1	401	1
8	5290	12	19.7	364	1
9	5290	16	13.8	215	1
10	5290	15	11.4	291	1
11	5290	14	15.1	454	1
12	5290	16	12.4	223	1
13	5290	15	18.4	346	1
14	5290	15	18	353	1
15	5290	13	15.7	328	1
16	5290	13	13	446	1
17	5290	13	15.1	267	1
18	5290	16	18.9	471	1
19	5290	13	14	433	1
20	5290	13	17	413	1
21	5290	12	17.3	225	1
22	5290	13	11.6	223	1
23	5290	12	12.1	466	1
24	5290	12	16.4	265	1
25	5290	13	15.2	242	1
26	5290	12	19.3	209	1
27	5290	13	17.4	316	1
28	5290	15	19.2	351	1
29	5290	15	17.1	421	1
30	5290	13	14.3	375	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	61.2	1978		0.572923	1
1	2	15	89.8	1588		1.197552	
2	1	19	66			1.676775	
3	3	12	56.1	1243	1482	2.520995	
4	2	20	78.7	1753		3.101627	
5	2	19	51.1	1930		3.650182	
6	1	18	88.7			4.463138	
7	2	16	96.3	1506		5.187363	
8	2	14	56	1913		5.905404	
9	3	20	61.4	1727	1457	6.468826	
10	3	9	56.5	1667	1129	7.097756	
11	2	14	65.1	1888		7.759587	
12	2	7	66.8	1813		8.046357	
13	3	14	99	1672	1750	8.737355	
14	3	17	90.9	1841	1377	9.456196	
15	3	6	75.4	1511	1385	10.080807	
16	2	13	97.2	1732		10.915925	
17	2	8	67.6	1433		11.371182	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	65.3	1705		0.447323	
1	1	10	96.6			1.038051	
2	2	18	50.3	1656		2.022546	
3	3	12	97.1	1903	1250	2.277636	
4	1	7	60.2			3.260319	
5	2	13	81	1326		4.220185	
6	2	8	81.3	1444		4.294852	
7	1	16	69.4			4.982767	
8	2	7	68.8	1297		6.315043	1
9	3	19	88.6	1307	1090	6.686884	
10	2	20	61.4	1971		7.704683	
11	2	15	81.5	1440		7.964622	
12	2	15	63.2	1773		8.667657	
13	2	5	61	1106		9.346433	
14	3	17	90.5	1725	1875	9.90819	
15	2	13	79.4	1736		11.148498	
16	2	7	62.1	1575		11.990393	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	82.6	1338		0.352454	
1	1	10	80.6			0.996612	
2	3	17	83	1546	1976	2.07986	
3	2	8	69	1820		2.981393	
4	1	12	91.7			3.531076	
5	2	6	93.2	1404		4.35342	
6	2	10	50.7	1321		4.802785	
7	2	7	54.2	1177		6.295574	1
8	1	15	91.5			7.109846	
9	2	18	97.5	1579		7.699166	
10	3	6	95.3	1983	1559	8.124749	
11	1	15	72.5			8.910874	
12	2	17	54.7	1840		10.151545	
13	1	9	53.4			11.155038	
14	3	11	77.5	1001	1883	11.207078	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	97.4	1552	1181	0.342521	
1	3	9	79.9	1338	1202	0.681876	
2	2	19	68.7	1148		1.279542	
3	3	9	84.9	1345	1073	2.311907	
4	2	8	84.5	1144		2.76491	
5	1	6	99.6			3.574613	
6	2	16	85.7	1767		4.247754	
7	2	7	61.6	1959		4.608415	
8	2	10	60.4	1214		5.159761	
9	3	19	97	1078	1309	5.798555	1
10	2	9	57.9	1731		6.355288	
11	2	13	72.8	1440		7.188152	
12	2	17	91.4	1128		7.589552	
13	1	19	54.3			8.697641	
14	2	12	70.2	1789		9.462068	
15	1	20	88.8			10.087013	
16	2	14	66.3	1393		10.618698	
17	1	13	81.5			11.225206	
18	1	18	50.5			11.722485	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	51.6	1847		0.569941	
1	2	9	55.8	1381		1.104776	
2	2	15	76.8	1035		1.867735	
3	1	9	54.3			2.727131	
4	2	16	56.6	1651		3.520257	
5	1	8	71.6			4.40925	
6	1	19	94.3			5.087654	
7	3	16	57.4	1193	1456	5.301319	1
8	2	12	95.7	1438		6.548463	
9	3	17	61	1309	1563	6.895641	
10	1	7	89.2			7.693131	
11	2	8	88.4	1438		8.377419	
12	3	19	85.2	1133	1446	9.175147	
13	2	6	61.3	1271		10.199065	
14	2	5	85.2	1824		11.05461	
15	2	19	86.5	1840		11.852819	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	88.2	1271		0.677971	
1	2	10	76.1	1990		1.230269	
2	2	17	50.3	1549		1.766497	
3	2	7	93.8	1840		2.213398	
4	3	6	63.4	1387	1829	2.995543	
5	3	12	77.2	1472	1048	4.131449	
6	2	9	91.2	1999		4.518028	
7	3	10	76.7	1844	1827	5.167624	
8	2	7	76.6	1184		5.839164	1
9	1	14	92.8			6.373388	
10	3	10	71.5	1220	1564	7.360631	
11	1	12	82.4			8.333974	
12	1	16	59.1			8.929324	
13	2	10	64	1023		9.822168	
14	2	6	52.6	1919		10.581925	
15	2	17	98	1816		10.679224	
16	2	9	63	1930		11.855718	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	70.3	1216		0.305981	1
1	2	19	50.3	1874		1.558452	
2	2	13	91.9	1625		2.152084	
3	2	16	88.2	1606		3.635165	
4	2	19	88.2	1595		4.95742	
5	1	16	78			5.329538	
6	3	19	69.9	1496	1644	6.04584	
7	1	7	66.3			7.626514	
8	2	12	76.2	1126		8.82728	
9	2	13	95.3	1332		9.49357	
10	1	13	65.7			10.703378	
11	1	15	84			11.430499	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	80.9	1998		0.03139	1
1	2	9	65.7	1059		1.01867	
2	3	13	56.3	1850	1201	2.925505	
3	2	8	89.5	1162		3.801218	
4	2	10	72.1	1503		4.543361	
5	2	16	63.5	1499		5.390144	
6	1	15	89.7			6.770655	
7	2	11	57.3	1222		7.150757	
8	3	9	75.7	1521	1741	8.259418	
9	2	10	57.7	1211		9.621458	
10	1	14	84.1			10.146818	
11	1	18	82.4			11.08544	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	92.4	1124		0.051759	1
1	3	8	71.5	1779	1401	2.14495	
2	2	11	50.7	1022		3.208432	
3	2	11	62.1	1328		4.066529	
4	2	16	65.4	1245		5.434513	
5	2	13	81.5	1945		7.914308	
6	2	19	65.9	1811		8.150837	
7	2	9	98.2	1933		10.485471	
8	1	19	63.7			10.963878	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	80.5			0.233923	1
1	3	9	53.9	1628	1983	0.765173	
2	2	5	63.9	1201		1.692779	
3	1	17	68.6			2.414557	
4	3	8	97.5	1411	1941	3.066494	
5	1	13	71.9			4.368273	
6	1	14	79.1			5.069576	
7	2	6	62.8	1250		5.977895	
8	2	11	73.4	1904		6.6299	
9	1	16	56.5			6.914307	
10	1	17	62.9			7.631128	
11	1	11	93.8			8.887125	
12	2	9	63.4	1194		9.64752	
13	3	10	50.5	1008	1232	10.470286	
14	3	9	77	1335	1839	10.726087	
15	3	7	98.3	1405	1651	11.972865	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	50.9	1263	1761	0.792008	1
1	3	16	83.2	1537	1085	1.151537	
2	2	6	77.1	1423		2.857436	
3	1	19	79.9			3.929054	
4	2	14	95.6	1807		4.654765	
5	2	17	88.3	1928		5.830431	
6	1	15	83.6			7.058657	
7	2	16	86.3	1203		8.097248	
8	1	10	86.6			9.123121	
9	1	12	70.1			10.009433	
10	2	13	73	1940		11.321638	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	76.6			0.783815	1
1	2	17	84.4	1005		1.198656	
2	1	20	67.6			2.386111	
3	2	16	73.3	1170		2.69292	
4	3	9	53.6	1056	1995	3.788291	
5	1	5	72.5			4.679313	
6	2	19	88.3	1744		5.361382	
7	2	12	57.9	1429		6.365704	
8	2	17	63.7	1850		7.388348	
9	3	9	86	1180	1087	7.780094	
10	1	15	84.7			8.97654	
11	2	12	87.4	1936		9.768652	
12	2	12	68.8	1405		11.014565	
13	2	19	81	1459		11.531538	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	57.3			0.377434	
1	3	17	56.6	1331	1789	2.47538	
2	3	13	97.7	1151	1885	2.952118	
3	1	6	72.2			4.668987	
4	2	15	91.2	1063		6.446997	1
5	3	12	67.6	1057	1147	7.417867	
6	2	6	69.4	1423		8.175022	
7	3	8	94.2	1872	1159	10.428369	
8	2	8	89.9	1723		11.518327	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	74.7			0.373532	
1	2	16	68.7	1984		1.442933	
2	3	10	100	1424	1499	1.795386	
3	1	20	56.8			2.680609	
4	2	12	64.4	1995		3.383318	
5	2	11	70.9	1031		4.032183	
6	1	6	97.8			5.146998	
7	1	13	63.7			5.509088	
8	2	18	66.1	1829		6.059397	1
9	1	9	97.9			7.445076	
10	3	7	55.2	1666	1400	8.032582	
11	2	6	58.9	1149		8.287047	
12	2	8	89.5	1179		9.448314	
13	3	8	95.8	1254	1197	10.032551	
14	3	10	65.8	1910	1788	10.772387	
15	1	19	94.4			11.719393	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	88.9	1590		0.952009	1
1	1	15	73.9			1.001175	
2	2	5	80.1	1042		2.357402	
3	1	16	85.5			3.592444	
4	2	14	50.2	1305		4.094161	
5	1	13	57.3			5.435762	
6	2	15	97.4	1618		6.212369	
7	2	7	97.8	1734		7.960591	
8	2	13	81.6	1593		8.725302	
9	2	11	95.8	1526		9.440852	
10	3	11	74.7	1844	1470	10.187001	
11	2	11	63.4	1520		11.644964	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	54.4			0.969493	1
1	2	16	50.8	1777		1.969	
2	2	12	89	1228		2.606371	
3	1	10	69.2			3.88239	
4	3	12	58.7	1667	1935	4.888577	
5	1	17	51.8			6.100367	
6	2	14	84.5	1429		7.67168	
7	1	14	58.2			9.319123	
8	1	14	72.8			9.918617	
9	3	13	88.1	1852	1403	11.046568	
0	1	10	54.4			0.969493	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	95.4			0.60994	1
1	2	8	87.2	1573		1.278507	
2	3	10	64	1766	1258	1.915655	
3	3	10	64.3	1632	1884	3.469492	
4	3	6	60.4	1754	1187	4.463481	
5	3	10	78.7	1631	1476	5.241393	
6	2	11	95.9	1948		6.190665	
7	2	10	87.1	1733		6.787035	
8	2	16	74	1748		7.468944	
9	2	15	91.7	1100		9.018761	
10	2	6	77	1296		10.118012	
11	2	12	55	1770		10.453005	
12	2	19	89.3	1593		11.597495	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	87.2			0.304465	1
1	2	14	79.4	1218		0.923313	
2	2	12	68.1	1235		2.012496	
3	2	9	62.2	1140		2.416365	
4	3	10	64.4	1491	1676	3.616875	
5	2	5	77	1786		4.259002	
6	2	20	56.4	1665		5.411988	
7	3	18	54.5	1783	1891	6.281755	
8	1	15	83.5			6.558181	
9	3	13	87.9	1897	1325	7.596394	
10	2	11	88.9	1953		8.782702	
11	2	12	81.4	1260		9.519167	
12	2	18	61.7	1950		9.663584	
13	3	7	69.8	1113	1948	10.593977	
14	2	5	67.1	1595		11.844919	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	81.7			0.500865	1
1	2	6	74.4	1544		0.909358	
2	3	8	79.6	1870	1928	1.683609	
3	3	11	90.9	1378	1846	1.860715	
4	1	11	56.8			2.938522	
5	1	10	52.8			3.305514	
6	2	14	59.8	1734		4.066476	
7	2	6	55.9	1225		4.775106	
8	3	8	85.3	1196	1130	5.237913	
9	3	18	53.7	1270	1033	5.965263	
10	3	7	79.9	1568	1325	6.033605	
11	1	12	63.5			6.793309	
12	2	15	87.9	1926		7.519914	
13	3	6	82.9	1860	1259	8.027625	
14	2	8	78.6	1469		8.415149	
15	1	19	85.8			9.461744	
16	1	17	77.4			10.19316	
17	2	10	53.8	1521		10.609401	
18	1	11	55.3			10.856393	
19	1	6	98.2			11.904682	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	72.6	1116		0.556541	
1	2	16	63.1	1966		1.587637	
2	1	14	85.2			2.361637	
3	2	17	89.8	1901		2.906935	
4	2	11	51.9	1734		3.62914	
5	2	6	81.4	1285		4.118035	
6	3	9	90	1287	1644	4.939919	
7	1	10	56.5			6.303141	1
8	3	12	77.4	1668	1353	6.926092	
9	2	16	59.2	1626		7.208238	
10	1	14	71.7			8.757127	
11	2	14	52.6	1342		9.176994	
12	2	8	50	1118		9.680013	
13	3	7	76.9	1330	1413	11.069318	
14	2	18	63.3	1587		11.540621	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	59.5	1231		0.255084	
1	3	11	97.1	1301	1322	0.835891	
2	2	17	58.6	1590		1.410085	
3	3	19	99.8	1070	1493	2.253948	
4	3	7	99.8	1176	1708	2.895164	
5	2	18	93.9	1576		3.415725	
6	2	17	96.9	1552		3.858444	
7	3	18	62.2	1158	1182	4.939957	
8	2	14	54.3	1779		5.277153	
9	2	6	68.3	1486		5.896343	1
10	2	5	74	1579		6.702798	
11	3	19	75.9	1006	1648	7.486003	
12	3	16	70.5	1251	1028	8.177606	
13	2	11	55.7	1106		8.697961	
14	2	19	55.6	1992		8.955868	
15	2	7	79.5	1023		9.941894	
16	3	5	90.3	1605	1698	10.451207	
17	3	12	82	1244	1958	11.038735	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	93.8	1552		0.030185	1
1	2	8	58.3	1957		2.564589	
2	2	18	52.1	1569		4.485517	
3	2	10	52.4	1036		4.695371	
4	3	8	69	1414	1950	6.169024	
5	3	17	52.4	1335	1827	8.848594	
6	2	10	94.1	1411		10.149928	
7	2	10	63.5	1486		11.035822	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	84.5	1748	1228	0.275615	1
1	2	5	87.8	1908		2.413665	
2	2	9	74	1896		2.794211	
3	3	13	62.9	1741	1319	5.310938	
4	2	5	98	1070		6.533958	
5	1	18	62.3			6.97159	
6	1	6	82.6			8.334154	
7	1	6	56.2			9.957382	
8	3	18	68.4	1627	1221	11.54211	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	75.3			0.188515	1
1	2	9	93.4	1177		0.729524	
2	2	13	67.7	1811		1.58405	
3	1	6	94.9			2.219427	
4	1	16	81.8			2.864073	
5	1	18	97.9			3.70494	
6	2	12	93.8	1167		4.400765	
7	2	15	88.7	1249		5.195569	
8	2	15	55.9	1570		5.653095	
9	1	10	62.2			6.302504	
10	2	9	80.5	1905		6.782148	
11	2	12	50.3	1698		7.805847	
12	1	11	57.7			8.041825	
13	2	16	97.9	1576		8.721357	
14	2	18	68.9	1855		9.385982	
15	2	6	88.7	1136		10.051824	
16	1	8	88.9			10.895097	
17	2	8	79	1963		11.800193	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	81			0.878911	1
1	3	12	52.2	1573	1968	1.407765	
2	3	8	97.5	1199	1555	2.077427	
3	2	13	91.9	1155		3.302754	
4	3	12	87.2	1127	1245	4.303699	
5	2	19	88.4	1361		5.194654	
6	3	15	92	1557	1702	6.373734	
7	3	16	77	1218	1537	7.720013	
8	3	15	90	1278	1139	8.519018	
9	3	13	89.1	1015	1898	9.899265	
10	1	7	81			10.285993	
11	2	14	79.8	1849		11.177531	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	98.2	1202		0.95441	
1	1	9	65			1.53145	
2	2	7	95	1431		2.948831	
3	2	13	58.2	1216		4.999996	
4	1	9	63.9			6.250447	1
5	3	19	93.1	1596	1521	6.996961	
6	3	17	62.9	1621	1374	8.735347	
7	2	15	64.7	1573		9.397143	
8	2	19	83	1763		11.349183	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	89			0.612454	
1	2	9	51.3	1529		1.053502	
2	2	5	56.5	1687		2.094975	
3	3	12	57.7	1573	1434	2.513515	
4	1	14	91.8			3.234789	
5	2	7	87.6	1670		4.57587	
6	2	17	65.3	1515		5.102624	
7	2	8	82.1	1525		6.032415	1
8	2	6	73.4	1344		6.497883	
9	2	10	51.5	1415		7.953467	
10	3	15	97.1	1036	1548	8.300693	
11	2	19	83.8	1968		9.053988	
12	2	7	85.1	1652		10.033264	
13	1	15	52.4			10.426128	
14	2	11	82.9	1502		11.86954	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	87.4	1029	1345	0.44185	1
1	3	10	70.2	1410	1459	1.913758	
2	1	16	73			2.626907	
3	2	14	50.4	1767		3.223163	
4	2	15	58	1693		4.139062	
5	3	11	88	1814	1975	5.283445	
6	1	15	67.7			6.835765	
7	1	11	54.1			7.123695	
8	2	16	73.8	1418		8.407907	
9	2	11	56.6	1641		9.308509	
10	1	15	52.6			10.877689	
11	2	15	71.6	1996		11.079068	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	81.5	1436		0.695511	1
1	2	5	95.7	1595		1.221254	
2	2	17	67.1	1967		1.67418	
3	2	13	99.4	1588		2.298768	
4	2	9	60.5	1923		2.996424	
5	2	13	89.1	1040		4.035168	
6	3	9	86.1	1390	1907	4.851719	
7	2	11	91.9	1750		5.397508	
8	1	6	98.8			6.188063	
9	2	6	65.6	1442		6.768647	
10	2	18	73.4	1831		7.672732	
11	2	18	84.6	1708		7.873882	
12	3	12	58.8	1446	1476	9.112638	
13	1	11	80.4			9.754202	
14	2	11	93.4	1392		9.962201	
15	2	17	61.2	1381		10.79568	
16	3	5	51.6	1224	1615	11.782436	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	82	1087	1064	0.108605	1
1	2	11	74.4	1177		0.859238	
2	3	18	79.8	1042	1436	1.458563	
3	2	13	67.8	1376		1.884359	
4	3	12	64.4	1918	1285	2.650325	
5	1	13	90.6			3.532071	
6	2	9	70.2	1748		3.688889	
7	2	17	92.6	1251		4.664857	
8	1	20	86.2			5.257828	
9	1	15	60.8			5.926404	
10	1	9	62.7			6.154316	
11	1	10	65.5			7.057098	
12	2	14	63.4	1308		7.531265	
13	3	11	88.2	1267	1869	7.988468	
14	2	15	57.4	1368		8.576145	
15	3	16	57	1902	1798	9.334832	
16	2	7	63.4	1557		10.122193	
17	2	12	91.6	1154		10.440387	
18	2	7	68	1241		11.183828	
19	1	7	66.2			11.888683	

Table-6 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	5356.0, 5638.0, 5329.0, 5433.0, 5667.0, 5400.0, 5637.0, 5569.0, 5272.0, 5353.0, 5341.0, 5468.0, 5677.0, 5363.0, 5617.0, 5656.0, 5397.0, 5692.0, 5321.0, 5437.0, 5560.0, 5282.0, 5662.0, 5270.0, 5297.0, 5663.0, 5641.0, 5509.0, 5470.0, 5652.0, 5579.0, 5713.0, 5549.0, 5340.0, 5519.0, 5629.0, 5461.0, 5490.0, 5476.0, 5577.0, 5623.0, 5260.0, 5514.0, 5307.0, 5339.0, 5542.0, 5326.0, 5458.0, 5712.0, 5475.0, 5537.0, 5387.0, 5287.0, 5424.0, 5658.0, 5653.0, 5320.0, 5344.0, 5665.0, 5525.0, 5676.0, 5523.0, 5457.0, 5518.0, 5331.0, 5651.0, 5312.0, 5324.0, 5306.0, 5554.0, 5674.0, 5416.0, 5264.0, 5507.0, 5506.0, 5275.0, 5536.0, 5348.0, 5420.0, 5303.0, 5469.0, 5293.0, 5284.0, 5283.0, 5280.0, 5615.0, 5668.0, 5407.0, 5261.0, 5408.0, 5576.0, 5532.0, 5434.0, 5386.0, 5395.0, 5685.0, 5552.0, 5589.0, 5582.0, 5450.0 (number of hits: 7)
2	5290	9	1	333	1	5553.0, 5528.0, 5720.0, 5339.0, 5349.0, 5347.0, 5411.0, 5530.0, 5286.0, 5554.0, 5513.0, 5407.0, 5620.0, 5492.0, 5652.0, 5681.0, 5670.0, 5660.0, 5320.0, 5682.0, 5279.0, 5549.0, 5696.0, 5348.0, 5283.0, 5367.0, 5372.0, 5387.0, 5468.0, 5351.0, 5587.0, 5281.0, 5512.0, 5314.0, 5282.0, 5322.0, 5671.0, 5378.0, 5707.0, 5252.0, 5600.0, 5462.0, 5471.0, 5307.0, 5550.0, 5598.0, 5483.0, 5622.0, 5589.0, 5475.0, 5421.0, 5557.0, 5506.0, 5265.0, 5496.0, 5518.0, 5443.0, 5308.0, 5625.0, 5719.0, 5267.0, 5658.0, 5309.0, 5444.0, 5624.0, 5531.0, 5403.0, 5272.0, 5595.0, 5612.0, 5415.0, 5300.0, 5288.0, 5675.0, 5558.0, 5649.0, 5593.0, 5586.0, 5510.0, 5721.0, 5562.0, 5410.0, 5537.0, 5319.0, 5695.0, 5334.0, 5431.0, 5370.0, 5632.0, 5470.0, 5276.0, 5257.0, 5711.0, 5691.0, 5716.0, 5258.0, 5515.0, 5699.0, 5337.0, 5397.0 (number of hits: 7)
3	5290	9	1	333	1	5625.0, 5314.0, 5449.0, 5506.0, 5514.0, 5355.0, 5323.0, 5477.0, 5393.0, 5312.0, 5562.0, 5505.0, 5422.0, 5672.0, 5503.0, 5345.0, 5615.0, 5376.0, 5593.0, 5550.0, 5497.0, 5611.0, 5467.0, 5256.0, 5299.0, 5401.0, 5263.0, 5474.0, 5389.0, 5702.0, 5485.0, 5618.0, 5404.0, 5525.0, 5338.0, 5715.0, 5539.0, 5307.0, 5670.0, 5643.0, 5617.0, 5285.0, 5605.0, 5507.0, 5472.0, 5487.0, 5286.0, 5547.0, 5610.0, 5511.0, 5353.0, 5541.0, 5356.0, 5281.0, 5694.0, 5687.0, 5591.0, 5524.0, 5724.0, 5554.0,

						5381.0, 5407.0, 5469.0, 5259.0, 5543.0, 5426.0, 5640.0, 5324.0, 5267.0, 5392.0, 5408.0, 5651.0, 5455.0, 5483.0, 5279.0, 5250.0, 5682.0, 5266.0, 5441.0, 5684.0, 5398.0, 5665.0, 5608.0, 5657.0, 5305.0, 5519.0, 5450.0, 5641.0, 5316.0, 5293.0, 5372.0, 5542.0, 5479.0, 5415.0, 5346.0, 5678.0, 5570.0, 5668.0, 5498.0, 5644.0 (number of hits: 8)
4	5290	9	1	333	1	5719.0, 5404.0, 5393.0, 5279.0, 5648.0, 5328.0, 5571.0, 5285.0, 5339.0, 5500.0, 5573.0, 5723.0, 5472.0, 5413.0, 5688.0, 5715.0, 5707.0, 5360.0, 5400.0, 5453.0, 5590.0, 5634.0, 5424.0, 5636.0, 5683.0, 5612.0, 5365.0, 5533.0, 5318.0, 5479.0, 5406.0, 5524.0, 5624.0, 5321.0, 5449.0, 5506.0, 5428.0, 5277.0, 5557.0, 5527.0, 5335.0, 5464.0, 5646.0, 5330.0, 5421.0, 5482.0, 5523.0, 5666.0, 5490.0, 5586.0, 5689.0, 5470.0, 5270.0, 5498.0, 5580.0, 5415.0, 5522.0, 5355.0, 5525.0, 5283.0, 5463.0, 5521.0, 5669.0, 5315.0, 5695.0, 5713.0, 5696.0, 5351.0, 5664.0, 5298.0, 5417.0, 5495.0, 5603.0, 5694.0, 5398.0, 5456.0, 5294.0, 5576.0, 5558.0, 5311.0, 5587.0, 5316.0, 5534.0, 5276.0, 5359.0, 5526.0, 5280.0, 5340.0, 5358.0, 5377.0, 5480.0, 5716.0, 5641.0, 5350.0, 5724.0, 5385.0, 5483.0, 5301.0, 5288.0, 5679.0 (number of hits: 6)
5	5290	9	1	333	1	5547.0, 5386.0, 5572.0, 5409.0, 5439.0, 5618.0, 5433.0, 5525.0, 5267.0, 5449.0, 5258.0, 5252.0, 5394.0, 5379.0, 5420.0, 5294.0, 5616.0, 5476.0, 5612.0, 5351.0, 5425.0, 5485.0, 5635.0, 5495.0, 5336.0, 5303.0, 5317.0, 5565.0, 5341.0, 5403.0, 5321.0, 5328.0, 5645.0, 5382.0, 5378.0, 5361.0, 5610.0, 5593.0, 5262.0, 5454.0, 5332.0, 5659.0, 5519.0, 5550.0, 5414.0, 5456.0, 5628.0, 5306.0, 5662.0, 5537.0, 5278.0, 5463.0, 5289.0, 5703.0, 5498.0, 5567.0, 5319.0, 5339.0, 5500.0, 5460.0, 5349.0, 5722.0, 5678.0, 5484.0, 5724.0, 5443.0, 5713.0, 5428.0, 5590.0, 5682.0, 5310.0, 5466.0, 5511.0, 5670.0, 5608.0, 5313.0, 5299.0, 5505.0, 5648.0, 5644.0, 5329.0, 5430.0, 5668.0, 5406.0, 5697.0, 5673.0, 5613.0, 5581.0, 5574.0, 5721.0, 5558.0, 5357.0, 5255.0, 5269.0, 5681.0, 5546.0, 5704.0, 5523.0, 5413.0, 5520.0 (number of hits: 7)
6	5290	9	1	333	1	5441.0, 5399.0, 5363.0, 5496.0, 5608.0, 5514.0, 5719.0, 5379.0, 5530.0, 5686.0, 5416.0, 5482.0, 5562.0, 5617.0, 5256.0, 5507.0, 5492.0, 5681.0, 5716.0, 5511.0, 5585.0, 5253.0, 5439.0, 5479.0, 5517.0, 5523.0, 5594.0, 5503.0, 5680.0, 5340.0, 5437.0, 5563.0, 5660.0, 5710.0, 5454.0, 5252.0, 5431.0, 5693.0, 5547.0, 5430.0,

						5697.0, 5588.0, 5478.0, 5342.0, 5712.0, 5658.0, 5293.0, 5457.0, 5656.0, 5512.0, 5529.0, 5474.0, 5251.0, 5433.0, 5476.0, 5675.0, 5407.0, 5648.0, 5706.0, 5646.0, 5624.0, 5373.0, 5425.0, 5524.0, 5668.0, 5395.0, 5645.0, 5260.0, 5573.0, 5540.0, 5415.0, 5295.0, 5322.0, 5263.0, 5721.0, 5298.0, 5387.0, 5627.0, 5494.0, 5375.0, 5426.0, 5539.0, 5323.0, 5553.0, 5393.0, 5405.0, 5443.0, 5455.0, 5654.0, 5664.0, 5376.0, 5533.0, 5428.0, 5625.0, 5493.0, 5390.0, 5409.0, 5386.0, 5362.0, 5566.0 (number of hits: 3)
7	5290	9	1	333	1	5293.0, 5654.0, 5418.0, 5494.0, 5289.0, 5476.0, 5566.0, 5352.0, 5279.0, 5533.0, 5598.0, 5639.0, 5616.0, 5546.0, 5361.0, 5692.0, 5364.0, 5596.0, 5520.0, 5678.0, 5339.0, 5703.0, 5383.0, 5547.0, 5644.0, 5499.0, 5545.0, 5530.0, 5667.0, 5544.0, 5328.0, 5340.0, 5484.0, 5626.0, 5423.0, 5651.0, 5694.0, 5619.0, 5686.0, 5394.0, 5386.0, 5278.0, 5471.0, 5382.0, 5590.0, 5282.0, 5424.0, 5437.0, 5716.0, 5349.0, 5320.0, 5301.0, 5334.0, 5662.0, 5331.0, 5720.0, 5292.0, 5448.0, 5528.0, 5257.0, 5277.0, 5640.0, 5508.0, 5253.0, 5356.0, 5513.0, 5504.0, 5405.0, 5425.0, 5345.0, 5702.0, 5696.0, 5677.0, 5711.0, 5636.0, 5554.0, 5559.0, 5317.0, 5610.0, 5348.0, 5258.0, 5365.0, 5495.0, 5493.0, 5396.0, 5615.0, 5603.0, 5722.0, 5699.0, 5254.0, 5601.0, 5285.0, 5506.0, 5256.0, 5252.0, 5490.0, 5263.0, 5555.0, 5489.0, 5472.0 (number of hits: 5)
8	5290	9	1	333	1	5332.0, 5710.0, 5649.0, 5677.0, 5674.0, 5511.0, 5304.0, 5652.0, 5720.0, 5531.0, 5276.0, 5277.0, 5688.0, 5497.0, 5583.0, 5331.0, 5550.0, 5444.0, 5298.0, 5382.0, 5678.0, 5704.0, 5672.0, 5484.0, 5366.0, 5395.0, 5560.0, 5667.0, 5650.0, 5648.0, 5575.0, 5716.0, 5690.0, 5715.0, 5724.0, 5345.0, 5430.0, 5705.0, 5392.0, 5679.0, 5595.0, 5375.0, 5427.0, 5447.0, 5352.0, 5676.0, 5538.0, 5380.0, 5264.0, 5698.0, 5629.0, 5480.0, 5611.0, 5680.0, 5346.0, 5416.0, 5280.0, 5406.0, 5324.0, 5293.0, 5373.0, 5547.0, 5673.0, 5696.0, 5519.0, 5483.0, 5456.0, 5262.0, 5615.0, 5368.0, 5455.0, 5518.0, 5335.0, 5321.0, 5265.0, 5491.0, 5492.0, 5419.0, 5655.0, 5394.0, 5387.0, 5625.0, 5681.0, 5353.0, 5423.0, 5702.0, 5306.0, 5489.0, 5695.0, 5614.0, 5431.0, 5605.0, 5622.0, 5336.0, 5434.0, 5268.0, 5671.0, 5361.0, 5487.0, 5283.0 (number of hits: 4)
9	5290	9	1	333	1	5292.0, 5496.0, 5699.0, 5365.0, 5596.0, 5583.0, 5418.0, 5452.0, 5473.0, 5692.0, 5357.0, 5321.0, 5437.0, 5436.0, 5538.0, 5424.0, 5665.0, 5448.0, 5297.0, 5262.0,

						5638.0, 5385.0, 5598.0, 5592.0, 5428.0, 5344.0, 5328.0, 5314.0, 5379.0, 5674.0, 5434.0, 5677.0, 5454.0, 5467.0, 5271.0, 5554.0, 5332.0, 5275.0, 5531.0, 5584.0, 5405.0, 5578.0, 5568.0, 5268.0, 5260.0, 5304.0, 5497.0, 5482.0, 5656.0, 5476.0, 5639.0, 5701.0, 5353.0, 5681.0, 5265.0, 5423.0, 5492.0, 5547.0, 5689.0, 5588.0, 5521.0, 5480.0, 5337.0, 5563.0, 5506.0, 5686.0, 5397.0, 5323.0, 5662.0, 5630.0, 5540.0, 5442.0, 5415.0, 5408.0, 5617.0, 5305.0, 5658.0, 5468.0, 5697.0, 5371.0, 5517.0, 5296.0, 5666.0, 5631.0, 5338.0, 5551.0, 5348.0, 5605.0, 5335.0, 5647.0, 5306.0, 5603.0, 5714.0, 5684.0, 5447.0, 5475.0, 5389.0, 5469.0, 5471.0, 5276.0 (number of hits: 7)
10	5290	9	1	333	1	5378.0, 5513.0, 5367.0, 5565.0, 5627.0, 5635.0, 5694.0, 5292.0, 5661.0, 5628.0, 5592.0, 5722.0, 5484.0, 5549.0, 5463.0, 5506.0, 5478.0, 5427.0, 5606.0, 5666.0, 5559.0, 5414.0, 5533.0, 5517.0, 5598.0, 5494.0, 5390.0, 5437.0, 5532.0, 5674.0, 5502.0, 5696.0, 5590.0, 5441.0, 5450.0, 5658.0, 5508.0, 5419.0, 5501.0, 5673.0, 5305.0, 5613.0, 5641.0, 5364.0, 5444.0, 5610.0, 5440.0, 5298.0, 5363.0, 5309.0, 5397.0, 5416.0, 5256.0, 5259.0, 5596.0, 5474.0, 5417.0, 5360.0, 5396.0, 5303.0, 5663.0, 5346.0, 5401.0, 5524.0, 5714.0, 5426.0, 5418.0, 5692.0, 5286.0, 5266.0, 5475.0, 5704.0, 5626.0, 5273.0, 5670.0, 5522.0, 5317.0, 5465.0, 5538.0, 5488.0, 5267.0, 5464.0, 5684.0, 5316.0, 5374.0, 5276.0, 5557.0, 5413.0, 5553.0, 5682.0, 5379.0, 5394.0, 5594.0, 5468.0, 5262.0, 5462.0, 5589.0, 5362.0, 5299.0, 5571.0 (number of hits: 7)
11	5290	9	1	333	1	5667.0, 5594.0, 5439.0, 5387.0, 5662.0, 5710.0, 5502.0, 5379.0, 5377.0, 5367.0, 5707.0, 5478.0, 5488.0, 5542.0, 5473.0, 5317.0, 5624.0, 5591.0, 5720.0, 5714.0, 5396.0, 5458.0, 5358.0, 5681.0, 5285.0, 5469.0, 5302.0, 5397.0, 5278.0, 5300.0, 5500.0, 5570.0, 5651.0, 5313.0, 5416.0, 5298.0, 5472.0, 5668.0, 5266.0, 5607.0, 5417.0, 5677.0, 5698.0, 5408.0, 5461.0, 5319.0, 5459.0, 5404.0, 5455.0, 5427.0, 5401.0, 5460.0, 5684.0, 5279.0, 5343.0, 5494.0, 5577.0, 5525.0, 5568.0, 5252.0, 5482.0, 5320.0, 5483.0, 5501.0, 5420.0, 5630.0, 5289.0, 5538.0, 5294.0, 5254.0, 5407.0, 5623.0, 5521.0, 5512.0, 5587.0, 5534.0, 5603.0, 5357.0, 5642.0, 5475.0, 5532.0, 5448.0, 5434.0, 5368.0, 5517.0, 5491.0, 5562.0, 5510.0, 5601.0, 5553.0, 5686.0, 5679.0, 5348.0, 5644.0, 5429.0, 5671.0, 5633.0, 5646.0, 5526.0, 5685.0 (number of hits: 7)

12	5290	9	1	333	1	5691.0, 5420.0, 5607.0, 5483.0, 5384.0, 5365.0, 5540.0, 5340.0, 5464.0, 5504.0, 5449.0, 5629.0, 5721.0, 5448.0, 5386.0, 5715.0, 5274.0, 5678.0, 5368.0, 5630.0, 5625.0, 5593.0, 5454.0, 5435.0, 5272.0, 5429.0, 5259.0, 5367.0, 5356.0, 5370.0, 5509.0, 5288.0, 5336.0, 5628.0, 5373.0, 5649.0, 5626.0, 5344.0, 5432.0, 5635.0, 5416.0, 5298.0, 5485.0, 5265.0, 5575.0, 5461.0, 5349.0, 5662.0, 5346.0, 5588.0, 5380.0, 5404.0, 5587.0, 5521.0, 5446.0, 5415.0, 5385.0, 5455.0, 5722.0, 5532.0, 5401.0, 5391.0, 5684.0, 5418.0, 5671.0, 5280.0, 5510.0, 5551.0, 5648.0, 5413.0, 5643.0, 5255.0, 5525.0, 5556.0, 5381.0, 5402.0, 5636.0, 5579.0, 5326.0, 5315.0, 5637.0, 5462.0, 5558.0, 5337.0, 5286.0, 5328.0, 5507.0, 5393.0, 5571.0, 5313.0, 5297.0, 5583.0, 5557.0, 5574.0, 5584.0, 5617.0, 5319.0, 5565.0, 5697.0, 5542.0 (number of hits: 5)
13	5290	9	1	333	1	5368.0, 5520.0, 5266.0, 5425.0, 5452.0, 5288.0, 5501.0, 5594.0, 5461.0, 5724.0, 5378.0, 5562.0, 5295.0, 5454.0, 5298.0, 5608.0, 5354.0, 5376.0, 5703.0, 5717.0, 5649.0, 5277.0, 5408.0, 5572.0, 5644.0, 5573.0, 5418.0, 5482.0, 5597.0, 5466.0, 5603.0, 5315.0, 5630.0, 5715.0, 5641.0, 5676.0, 5392.0, 5387.0, 5417.0, 5449.0, 5681.0, 5604.0, 5706.0, 5560.0, 5464.0, 5496.0, 5704.0, 5329.0, 5475.0, 5505.0, 5632.0, 5439.0, 5401.0, 5280.0, 5456.0, 5538.0, 5324.0, 5663.0, 5521.0, 5718.0, 5651.0, 5502.0, 5419.0, 5455.0, 5398.0, 5450.0, 5615.0, 5583.0, 5713.0, 5624.0, 5590.0, 5514.0, 5340.0, 5543.0, 5478.0, 5600.0, 5292.0, 5527.0, 5390.0, 5365.0, 5406.0, 5372.0, 5279.0, 5416.0, 5595.0, 5577.0, 5554.0, 5349.0, 5305.0, 5338.0, 5437.0, 5364.0, 5345.0, 5668.0, 5621.0, 5428.0, 5467.0, 5550.0, 5709.0, 5580.0 (number of hits: 5)
14	5290	9	1	333	1	5357.0, 5466.0, 5374.0, 5651.0, 5709.0, 5566.0, 5421.0, 5549.0, 5505.0, 5516.0, 5464.0, 5388.0, 5562.0, 5634.0, 5379.0, 5606.0, 5684.0, 5346.0, 5294.0, 5676.0, 5354.0, 5333.0, 5489.0, 5431.0, 5325.0, 5328.0, 5344.0, 5502.0, 5597.0, 5387.0, 5719.0, 5673.0, 5436.0, 5488.0, 5258.0, 5485.0, 5371.0, 5565.0, 5492.0, 5628.0, 5429.0, 5453.0, 5672.0, 5366.0, 5605.0, 5470.0, 5557.0, 5715.0, 5252.0, 5646.0, 5323.0, 5461.0, 5259.0, 5722.0, 5692.0, 5358.0, 5348.0, 5701.0, 5386.0, 5342.0, 5621.0, 5345.0, 5474.0, 5572.0, 5378.0, 5611.0, 5545.0, 5410.0, 5254.0, 5696.0, 5649.0, 5608.0, 5359.0, 5383.0, 5367.0, 5496.0, 5364.0, 5303.0, 5350.0, 5337.0, 5712.0, 5594.0, 5411.0, 5475.0, 5292.0,

						5251.0, 5423.0, 5370.0, 5414.0, 5317.0, 5667.0, 5473.0, 5482.0, 5683.0, 5440.0, 5372.0, 5658.0, 5504.0, 5613.0, 5538.0 (number of hits: 3)
15	5290	9	1	333	1	5439.0, 5641.0, 5631.0, 5693.0, 5664.0, 5474.0, 5504.0, 5628.0, 5596.0, 5430.0, 5573.0, 5672.0, 5484.0, 5575.0, 5633.0, 5639.0, 5317.0, 5388.0, 5551.0, 5649.0, 5562.0, 5401.0, 5619.0, 5638.0, 5376.0, 5518.0, 5469.0, 5422.0, 5661.0, 5407.0, 5553.0, 5547.0, 5635.0, 5323.0, 5583.0, 5653.0, 5262.0, 5626.0, 5593.0, 5719.0, 5611.0, 5544.0, 5692.0, 5408.0, 5271.0, 5595.0, 5291.0, 5668.0, 5381.0, 5570.0, 5591.0, 5658.0, 5333.0, 5304.0, 5646.0, 5339.0, 5418.0, 5466.0, 5405.0, 5314.0, 5660.0, 5684.0, 5525.0, 5296.0, 5682.0, 5251.0, 5297.0, 5529.0, 5487.0, 5532.0, 5357.0, 5335.0, 5386.0, 5643.0, 5597.0, 5352.0, 5480.0, 5652.0, 5435.0, 5500.0, 5721.0, 5556.0, 5707.0, 5711.0, 5718.0, 5263.0, 5564.0, 5345.0, 5429.0, 5337.0, 5647.0, 5320.0, 5424.0, 5670.0, 5256.0, 5253.0, 5285.0, 5276.0, 5441.0, 5510.0 (number of hits: 6)
16	5290	9	1	333	1	5679.0, 5618.0, 5586.0, 5465.0, 5670.0, 5667.0, 5508.0, 5303.0, 5609.0, 5435.0, 5630.0, 5531.0, 5446.0, 5484.0, 5521.0, 5504.0, 5724.0, 5281.0, 5352.0, 5298.0, 5633.0, 5621.0, 5293.0, 5251.0, 5637.0, 5675.0, 5380.0, 5395.0, 5272.0, 5605.0, 5286.0, 5407.0, 5416.0, 5488.0, 5487.0, 5548.0, 5648.0, 5518.0, 5545.0, 5376.0, 5288.0, 5430.0, 5546.0, 5604.0, 5565.0, 5493.0, 5496.0, 5506.0, 5333.0, 5387.0, 5505.0, 5562.0, 5345.0, 5420.0, 5678.0, 5592.0, 5707.0, 5532.0, 5471.0, 5320.0, 5275.0, 5714.0, 5661.0, 5366.0, 5384.0, 5265.0, 5309.0, 5318.0, 5355.0, 5364.0, 5597.0, 5551.0, 5582.0, 5377.0, 5339.0, 5682.0, 5396.0, 5414.0, 5693.0, 5332.0, 5591.0, 5410.0, 5453.0, 5523.0, 5700.0, 5375.0, 5499.0, 5632.0, 5473.0, 5709.0, 5307.0, 5340.0, 5515.0, 5643.0, 5673.0, 5607.0, 5325.0, 5271.0, 5680.0, 5659.0 (number of hits: 7)
17	5290	9	1	333	1	5330.0, 5680.0, 5335.0, 5358.0, 5383.0, 5440.0, 5430.0, 5645.0, 5715.0, 5615.0, 5405.0, 5520.0, 5343.0, 5398.0, 5431.0, 5425.0, 5632.0, 5505.0, 5616.0, 5486.0, 5686.0, 5547.0, 5256.0, 5279.0, 5410.0, 5698.0, 5344.0, 5630.0, 5462.0, 5412.0, 5696.0, 5342.0, 5584.0, 5493.0, 5700.0, 5328.0, 5324.0, 5722.0, 5531.0, 5557.0, 5477.0, 5553.0, 5349.0, 5382.0, 5617.0, 5699.0, 5647.0, 5656.0, 5393.0, 5384.0, 5415.0, 5542.0, 5589.0, 5648.0, 5372.0, 5509.0, 5388.0, 5346.0, 5723.0, 5370.0, 5294.0, 5581.0, 5543.0, 5707.0, 5556.0,

						5480.0, 5326.0, 5467.0, 5678.0, 5389.0, 5287.0, 5278.0, 5504.0, 5457.0, 5357.0, 5366.0, 5514.0, 5386.0, 5359.0, 5280.0, 5720.0, 5267.0, 5466.0, 5676.0, 5516.0, 5306.0, 5605.0, 5718.0, 5563.0, 5644.0, 5289.0, 5481.0, 5634.0, 5695.0, 5541.0, 5708.0, 5363.0, 5277.0, 5499.0, 5291.0 (number of hits: 5)
18	5290	9	1	333	1	5305.0, 5665.0, 5337.0, 5276.0, 5287.0, 5393.0, 5423.0, 5338.0, 5442.0, 5524.0, 5408.0, 5411.0, 5436.0, 5689.0, 5564.0, 5651.0, 5265.0, 5280.0, 5424.0, 5260.0, 5381.0, 5715.0, 5303.0, 5468.0, 5307.0, 5645.0, 5353.0, 5357.0, 5710.0, 5460.0, 5438.0, 5308.0, 5720.0, 5620.0, 5406.0, 5272.0, 5619.0, 5301.0, 5627.0, 5708.0, 5429.0, 5666.0, 5330.0, 5378.0, 5419.0, 5261.0, 5377.0, 5718.0, 5723.0, 5646.0, 5601.0, 5716.0, 5536.0, 5566.0, 5598.0, 5615.0, 5450.0, 5713.0, 5613.0, 5600.0, 5668.0, 5578.0, 5609.0, 5542.0, 5576.0, 5475.0, 5702.0, 5488.0, 5371.0, 5361.0, 5415.0, 5569.0, 5434.0, 5254.0, 5680.0, 5614.0, 5340.0, 5466.0, 5472.0, 5428.0, 5612.0, 5558.0, 5264.0, 5570.0, 5496.0, 5400.0, 5448.0, 5266.0, 5544.0, 5391.0, 5685.0, 5339.0, 5501.0, 5259.0, 5344.0, 5457.0, 5616.0, 5462.0, 5427.0, 5327.0 (number of hits: 6)
19	5290	9	1	333	1	5720.0, 5497.0, 5681.0, 5368.0, 5395.0, 5394.0, 5586.0, 5692.0, 5556.0, 5382.0, 5264.0, 5279.0, 5592.0, 5660.0, 5355.0, 5691.0, 5290.0, 5562.0, 5701.0, 5585.0, 5315.0, 5515.0, 5350.0, 5256.0, 5481.0, 5457.0, 5468.0, 5661.0, 5286.0, 5307.0, 5599.0, 5492.0, 5494.0, 5408.0, 5349.0, 5498.0, 5417.0, 5618.0, 5467.0, 5630.0, 5338.0, 5683.0, 5342.0, 5596.0, 5540.0, 5615.0, 5413.0, 5544.0, 5297.0, 5306.0, 5471.0, 5626.0, 5502.0, 5455.0, 5400.0, 5647.0, 5291.0, 5305.0, 5713.0, 5553.0, 5501.0, 5399.0, 5332.0, 5627.0, 5594.0, 5288.0, 5476.0, 5337.0, 5643.0, 5344.0, 5712.0, 5653.0, 5577.0, 5711.0, 5619.0, 5375.0, 5283.0, 5642.0, 5425.0, 5637.0, 5565.0, 5493.0, 5354.0, 5301.0, 5448.0, 5597.0, 5665.0, 5624.0, 5654.0, 5366.0, 5610.0, 5679.0, 5495.0, 5460.0, 5593.0, 5635.0, 5397.0, 5293.0, 5688.0, 5363.0 (number of hits: 10)
20	5290	9	1	333	1	5413.0, 5464.0, 5326.0, 5470.0, 5581.0, 5508.0, 5541.0, 5429.0, 5376.0, 5491.0, 5621.0, 5365.0, 5627.0, 5683.0, 5693.0, 5505.0, 5664.0, 5562.0, 5653.0, 5462.0, 5494.0, 5567.0, 5285.0, 5451.0, 5611.0, 5571.0, 5590.0, 5277.0, 5294.0, 5286.0, 5385.0, 5697.0, 5498.0, 5655.0, 5478.0, 5321.0, 5433.0, 5660.0, 5722.0, 5460.0, 5623.0, 5361.0, 5679.0, 5422.0, 5257.0,

						5637.0, 5304.0, 5409.0, 5530.0, 5652.0, 5648.0, 5310.0, 5506.0, 5604.0, 5520.0, 5485.0, 5401.0, 5719.0, 5317.0, 5343.0, 5443.0, 5546.0, 5281.0, 5398.0, 5466.0, 5378.0, 5532.0, 5559.0, 5486.0, 5263.0, 5656.0, 5537.0, 5599.0, 5416.0, 5313.0, 5570.0, 5272.0, 5432.0, 5556.0, 5298.0, 5368.0, 5276.0, 5560.0, 5296.0, 5458.0, 5661.0, 5618.0, 5594.0, 5542.0, 5675.0, 5457.0, 5369.0, 5403.0, 5437.0, 5380.0, 5557.0, 5605.0, 5387.0, 5362.0, 5481.0 (number of hits: 8)
21	5290	9	1	333	1	5662.0, 5606.0, 5656.0, 5285.0, 5270.0, 5464.0, 5687.0, 5517.0, 5576.0, 5700.0, 5452.0, 5575.0, 5397.0, 5633.0, 5462.0, 5559.0, 5410.0, 5695.0, 5703.0, 5654.0, 5529.0, 5608.0, 5486.0, 5587.0, 5435.0, 5431.0, 5549.0, 5561.0, 5707.0, 5317.0, 5715.0, 5475.0, 5443.0, 5659.0, 5618.0, 5646.0, 5621.0, 5678.0, 5361.0, 5721.0, 5567.0, 5352.0, 5698.0, 5505.0, 5394.0, 5474.0, 5402.0, 5439.0, 5644.0, 5720.0, 5347.0, 5668.0, 5520.0, 5313.0, 5511.0, 5412.0, 5554.0, 5467.0, 5401.0, 5650.0, 5364.0, 5513.0, 5306.0, 5512.0, 5391.0, 5581.0, 5685.0, 5382.0, 5663.0, 5605.0, 5458.0, 5655.0, 5308.0, 5362.0, 5370.0, 5555.0, 5498.0, 5481.0, 5400.0, 5425.0, 5601.0, 5350.0, 5530.0, 5267.0, 5694.0, 5409.0, 5688.0, 5714.0, 5612.0, 5344.0, 5638.0, 5496.0, 5670.0, 5366.0, 5255.0, 5310.0, 5256.0, 5684.0, 5502.0, 5690.0 (number of hits: 5)
22	5290	9	1	333	1	5681.0, 5400.0, 5327.0, 5475.0, 5256.0, 5663.0, 5441.0, 5632.0, 5443.0, 5455.0, 5271.0, 5381.0, 5357.0, 5281.0, 5423.0, 5505.0, 5568.0, 5411.0, 5394.0, 5602.0, 5405.0, 5540.0, 5675.0, 5482.0, 5577.0, 5650.0, 5491.0, 5468.0, 5518.0, 5642.0, 5591.0, 5699.0, 5252.0, 5402.0, 5323.0, 5648.0, 5512.0, 5328.0, 5418.0, 5492.0, 5460.0, 5373.0, 5469.0, 5484.0, 5538.0, 5542.0, 5391.0, 5501.0, 5397.0, 5515.0, 5682.0, 5558.0, 5386.0, 5635.0, 5588.0, 5672.0, 5299.0, 5410.0, 5459.0, 5447.0, 5709.0, 5697.0, 5444.0, 5349.0, 5498.0, 5361.0, 5716.0, 5535.0, 5345.0, 5641.0, 5705.0, 5596.0, 5610.0, 5454.0, 5655.0, 5260.0, 5551.0, 5440.0, 5291.0, 5693.0, 5372.0, 5640.0, 5537.0, 5646.0, 5371.0, 5300.0, 5636.0, 5458.0, 5493.0, 5630.0, 5398.0, 5413.0, 5403.0, 5352.0, 5619.0, 5717.0, 5326.0, 5719.0, 5590.0, 5489.0 (number of hits: 3)
23	5290	9	1	333	1	5629.0, 5281.0, 5442.0, 5637.0, 5427.0, 5329.0, 5406.0, 5721.0, 5538.0, 5715.0, 5668.0, 5530.0, 5291.0, 5254.0, 5292.0, 5468.0, 5466.0, 5445.0, 5550.0, 5398.0, 5275.0, 5657.0, 5660.0, 5553.0, 5394.0,

						5559.0, 5654.0, 5719.0, 5561.0, 5430.0, 5255.0, 5410.0, 5347.0, 5541.0, 5438.0, 5505.0, 5273.0, 5513.0, 5614.0, 5315.0, 5434.0, 5452.0, 5689.0, 5694.0, 5471.0, 5636.0, 5724.0, 5603.0, 5423.0, 5262.0, 5431.0, 5369.0, 5277.0, 5344.0, 5403.0, 5268.0, 5703.0, 5323.0, 5264.0, 5510.0, 5469.0, 5560.0, 5449.0, 5714.0, 5429.0, 5402.0, 5595.0, 5470.0, 5305.0, 5374.0, 5487.0, 5502.0, 5463.0, 5465.0, 5426.0, 5591.0, 5558.0, 5304.0, 5626.0, 5359.0, 5341.0, 5633.0, 5624.0, 5478.0, 5499.0, 5267.0, 5272.0, 5623.0, 5368.0, 5293.0, 5399.0, 5297.0, 5296.0, 5379.0, 5350.0, 5565.0, 5476.0, 5435.0, 5365.0, 5516.0 (number of hits: 7)
24	5290	9	1	333	1	5579.0, 5266.0, 5460.0, 5333.0, 5492.0, 5628.0, 5253.0, 5523.0, 5699.0, 5396.0, 5664.0, 5445.0, 5461.0, 5546.0, 5719.0, 5644.0, 5283.0, 5598.0, 5724.0, 5637.0, 5403.0, 5688.0, 5297.0, 5352.0, 5654.0, 5315.0, 5497.0, 5405.0, 5701.0, 5520.0, 5627.0, 5577.0, 5630.0, 5276.0, 5317.0, 5587.0, 5341.0, 5417.0, 5294.0, 5434.0, 5507.0, 5563.0, 5509.0, 5380.0, 5558.0, 5556.0, 5340.0, 5365.0, 5691.0, 5473.0, 5593.0, 5662.0, 5411.0, 5573.0, 5451.0, 5394.0, 5302.0, 5604.0, 5570.0, 5531.0, 5685.0, 5521.0, 5347.0, 5519.0, 5382.0, 5410.0, 5383.0, 5713.0, 5363.0, 5462.0, 5583.0, 5274.0, 5280.0, 5350.0, 5700.0, 5612.0, 5320.0, 5582.0, 5565.0, 5600.0, 5260.0, 5491.0, 5378.0, 5271.0, 5349.0, 5721.0, 5571.0, 5553.0, 5595.0, 5512.0, 5348.0, 5437.0, 5551.0, 5355.0, 5555.0, 5659.0, 5325.0, 5470.0, 5544.0, 5647.0 (number of hits: 3)
25	5290	9	1	333	1	5599.0, 5369.0, 5572.0, 5317.0, 5655.0, 5648.0, 5334.0, 5274.0, 5553.0, 5509.0, 5605.0, 5452.0, 5703.0, 5302.0, 5625.0, 5335.0, 5505.0, 5412.0, 5642.0, 5563.0, 5513.0, 5258.0, 5601.0, 5559.0, 5646.0, 5552.0, 5645.0, 5723.0, 5580.0, 5374.0, 5310.0, 5457.0, 5630.0, 5421.0, 5675.0, 5458.0, 5473.0, 5280.0, 5342.0, 5446.0, 5462.0, 5435.0, 5597.0, 5626.0, 5319.0, 5547.0, 5485.0, 5524.0, 5620.0, 5290.0, 5337.0, 5537.0, 5463.0, 5690.0, 5367.0, 5432.0, 5510.0, 5687.0, 5709.0, 5314.0, 5592.0, 5407.0, 5381.0, 5548.0, 5357.0, 5629.0, 5669.0, 5511.0, 5607.0, 5593.0, 5366.0, 5588.0, 5538.0, 5408.0, 5610.0, 5456.0, 5708.0, 5573.0, 5423.0, 5533.0, 5664.0, 5300.0, 5372.0, 5363.0, 5608.0, 5329.0, 5634.0, 5415.0, 5263.0, 5501.0, 5521.0, 5713.0, 5358.0, 5499.0, 5693.0, 5472.0, 5595.0, 5628.0, 5464.0, 5500.0 (number of hits: 5)
26	5290	9	1	333	1	5510.0, 5522.0, 5714.0, 5654.0, 5345.0,

						5555.0, 5254.0, 5253.0, 5602.0, 5466.0, 5384.0, 5425.0, 5716.0, 5480.0, 5437.0, 5702.0, 5577.0, 5533.0, 5595.0, 5351.0, 5362.0, 5263.0, 5567.0, 5463.0, 5269.0, 5327.0, 5410.0, 5693.0, 5293.0, 5675.0, 5260.0, 5606.0, 5471.0, 5380.0, 5690.0, 5719.0, 5648.0, 5626.0, 5620.0, 5643.0, 5721.0, 5650.0, 5298.0, 5360.0, 5278.0, 5500.0, 5297.0, 5558.0, 5353.0, 5609.0, 5518.0, 5621.0, 5316.0, 5294.0, 5350.0, 5394.0, 5319.0, 5458.0, 5336.0, 5258.0, 5364.0, 5574.0, 5642.0, 5337.0, 5512.0, 5439.0, 5414.0, 5310.0, 5375.0, 5357.0, 5532.0, 5541.0, 5575.0, 5499.0, 5676.0, 5419.0, 5678.0, 5479.0, 5681.0, 5399.0, 5256.0, 5259.0, 5663.0, 5542.0, 5723.0, 5527.0, 5320.0, 5551.0, 5485.0, 5306.0, 5377.0, 5633.0, 5715.0, 5453.0, 5505.0, 5275.0, 5325.0, 5411.0, 5508.0, 5367.0 (number of hits: 6)
27	5290	9	1	333	1	5331.0, 5377.0, 5366.0, 5496.0, 5707.0, 5670.0, 5308.0, 5624.0, 5395.0, 5623.0, 5282.0, 5320.0, 5353.0, 5442.0, 5460.0, 5423.0, 5686.0, 5633.0, 5547.0, 5509.0, 5610.0, 5371.0, 5413.0, 5639.0, 5558.0, 5534.0, 5277.0, 5525.0, 5259.0, 5498.0, 5612.0, 5314.0, 5328.0, 5465.0, 5674.0, 5607.0, 5379.0, 5479.0, 5601.0, 5602.0, 5273.0, 5408.0, 5466.0, 5540.0, 5338.0, 5262.0, 5501.0, 5669.0, 5264.0, 5681.0, 5557.0, 5488.0, 5682.0, 5352.0, 5456.0, 5577.0, 5431.0, 5628.0, 5716.0, 5324.0, 5467.0, 5637.0, 5630.0, 5265.0, 5580.0, 5457.0, 5464.0, 5271.0, 5302.0, 5665.0, 5438.0, 5507.0, 5256.0, 5673.0, 5672.0, 5480.0, 5526.0, 5425.0, 5619.0, 5321.0, 5409.0, 5397.0, 5398.0, 5614.0, 5680.0, 5317.0, 5337.0, 5333.0, 5361.0, 5656.0, 5514.0, 5510.0, 5666.0, 5468.0, 5722.0, 5306.0, 5713.0, 5600.0, 5360.0, 5341.0 (number of hits: 4)
28	5290	9	1	333	1	5412.0, 5534.0, 5414.0, 5372.0, 5478.0, 5425.0, 5622.0, 5340.0, 5545.0, 5689.0, 5344.0, 5716.0, 5522.0, 5541.0, 5439.0, 5676.0, 5556.0, 5426.0, 5629.0, 5497.0, 5466.0, 5359.0, 5494.0, 5619.0, 5509.0, 5700.0, 5260.0, 5591.0, 5518.0, 5461.0, 5608.0, 5459.0, 5495.0, 5416.0, 5271.0, 5638.0, 5595.0, 5644.0, 5664.0, 5604.0, 5504.0, 5352.0, 5584.0, 5363.0, 5488.0, 5436.0, 5285.0, 5649.0, 5551.0, 5467.0, 5651.0, 5524.0, 5464.0, 5578.0, 5597.0, 5287.0, 5387.0, 5361.0, 5723.0, 5348.0, 5438.0, 5368.0, 5616.0, 5406.0, 5666.0, 5613.0, 5681.0, 5422.0, 5496.0, 5527.0, 5302.0, 5486.0, 5417.0, 5386.0, 5312.0, 5684.0, 5620.0, 5307.0, 5533.0, 5491.0, 5332.0, 5289.0, 5574.0, 5349.0, 5423.0, 5430.0, 5621.0, 5710.0, 5308.0, 5362.0,

						5313.0, 5680.0, 5712.0, 5474.0, 5380.0, 5336.0, 5286.0, 5465.0, 5627.0, 5609.0 (number of hits: 9)
29	5290	9	1	333	1	5595.0, 5417.0, 5559.0, 5441.0, 5583.0, 5394.0, 5455.0, 5692.0, 5354.0, 5446.0, 5522.0, 5273.0, 5438.0, 5329.0, 5457.0, 5384.0, 5582.0, 5686.0, 5313.0, 5412.0, 5610.0, 5635.0, 5512.0, 5319.0, 5342.0, 5349.0, 5353.0, 5638.0, 5545.0, 5562.0, 5718.0, 5474.0, 5517.0, 5588.0, 5398.0, 5486.0, 5594.0, 5691.0, 5647.0, 5285.0, 5318.0, 5484.0, 5334.0, 5688.0, 5350.0, 5410.0, 5356.0, 5511.0, 5456.0, 5695.0, 5579.0, 5603.0, 5409.0, 5330.0, 5325.0, 5577.0, 5274.0, 5339.0, 5602.0, 5424.0, 5426.0, 5269.0, 5570.0, 5254.0, 5631.0, 5431.0, 5677.0, 5396.0, 5593.0, 5377.0, 5306.0, 5560.0, 5407.0, 5479.0, 5430.0, 5420.0, 5596.0, 5580.0, 5453.0, 5282.0, 5717.0, 5627.0, 5327.0, 5551.0, 5337.0, 5358.0, 5624.0, 5680.0, 5402.0, 5513.0, 5371.0, 5651.0, 5326.0, 5555.0, 5303.0, 5311.0, 5679.0, 5399.0, 5280.0, 5471.0 (number of hits: 5)
30	5290	9	1	333	1	5580.0, 5550.0, 5250.0, 5281.0, 5669.0, 5320.0, 5368.0, 5409.0, 5628.0, 5678.0, 5596.0, 5390.0, 5285.0, 5609.0, 5417.0, 5700.0, 5608.0, 5353.0, 5297.0, 5276.0, 5379.0, 5475.0, 5306.0, 5661.0, 5479.0, 5598.0, 5490.0, 5549.0, 5460.0, 5497.0, 5324.0, 5321.0, 5526.0, 5410.0, 5395.0, 5660.0, 5352.0, 5254.0, 5588.0, 5252.0, 5262.0, 5391.0, 5392.0, 5301.0, 5558.0, 5435.0, 5579.0, 5489.0, 5419.0, 5289.0, 5548.0, 5694.0, 5496.0, 5326.0, 5378.0, 5463.0, 5332.0, 5295.0, 5566.0, 5602.0, 5691.0, 5264.0, 5519.0, 5701.0, 5492.0, 5600.0, 5564.0, 5445.0, 5684.0, 5434.0, 5334.0, 5491.0, 5499.0, 5256.0, 5629.0, 5715.0, 5436.0, 5717.0, 5404.0, 5402.0, 5537.0, 5529.0, 5707.0, 5451.0, 5299.0, 5462.0, 5459.0, 5373.0, 5354.0, 5714.0, 5534.0, 5449.0, 5654.0, 5556.0, 5452.0, 5360.0, 5542.0, 5311.0, 5527.0, 5568.0 (number of hits: 8)

5530 MHz, 80 MHz Bandwidth

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

Please refer to the following statistical tables:

Table-1 Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	102	1	518	1
2	5530	81	1	658	1
3	5530	89	1	598	1
4	5530	58	1	918	1
5	5530	72	1	738	1
6	5530	70	1	758	1
7	5530	76	1	698	1
8	5530	74	1	718	1
9	5530	59	1	898	1
10	5530	67	1	798	1
11	5530	57	1	938	1
12	5530	68	1	778	1
13	5530	78	1	678	1
14	5530	99	1	538	1
15	5530	63	1	838	1
16	5530	38	1	1417	1
17	5530	22	1	2413	1
18	5530	47	1	1135	1
19	5530	37	1	1431	1
20	5530	20	1	2643	1
21	5530	54	1	992	1
22	5530	37	1	1450	1
23	5530	40	1	1332	1
24	5530	20	1	2774	1
25	5530	39	1	1386	1
26	5530	84	1	635	1
27	5530	31	1	1744	1
28	5530	27	1	2007	1
29	5530	50	1	1058	1
30	5530	52	1	1034	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	27	2.7	168	1
2	5530	29	4.2	151	1
3	5530	23	3.4	184	1
4	5530	29	4.3	175	1
5	5530	26	1.5	185	1
6	5530	26	4.1	159	1
7	5530	26	1.6	186	1
8	5530	26	2.3	229	1
9	5530	26	4.9	176	1
10	5530	28	1.2	206	1
11	5530	27	1.8	214	1
12	5530	26	1.4	171	1
13	5530	23	5	214	1
14	5530	26	4.6	155	1
15	5530	29	4.4	219	1
16	5530	28	1.5	170	1
17	5530	29	1.8	209	1
18	5530	23	4.1	167	1
19	5530	24	2	204	1
20	5530	28	2.7	217	1
21	5530	25	1.9	163	1
22	5530	24	4.2	224	1
23	5530	23	1.8	213	1
24	5530	24	1.1	172	1
25	5530	26	1.6	210	1
26	5530	29	2.6	190	1
27	5530	24	1.8	194	1
28	5530	25	2.5	175	1
29	5530	29	3.3	202	1
30	5530	25	4.4	229	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	17	6.6	436	1
2	5530	18	9.2	428	1
3	5530	17	6.2	385	1
4	5530	17	6.9	269	1
5	5530	18	9.5	485	1
6	5530	17	6.8	303	1
7	5530	18	8.9	306	1
8	5530	16	9.9	346	1
9	5530	17	9.2	208	1
10	5530	16	6.8	433	1
11	5530	17	9.3	240	1
12	5530	17	8.5	440	1
13	5530	18	6.6	349	1
14	5530	18	9.2	359	1
15	5530	16	6.2	454	1
16	5530	17	8.1	240	1
17	5530	16	8.8	490	1
18	5530	18	6.3	435	1
19	5530	16	6.5	359	1
20	5530	16	10	384	1
21	5530	18	7	319	1
22	5530	18	6.5	451	1
23	5530	18	6.5	279	1
24	5530	16	8.1	260	1
25	5530	17	6.3	356	1
26	5530	17	8.6	298	1
27	5530	17	8.4	223	1
28	5530	16	9.5	425	1
29	5530	18	7.1	382	1
30	5530	18	8.5	333	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	16	17.3	324	1
2	5530	15	19.9	333	1
3	5530	14	13.5	217	1
4	5530	12	19.5	300	1
5	5530	15	15.3	285	1
6	5530	15	19.5	439	1
7	5530	13	16.5	443	1
8	5530	14	17.6	311	1
9	5530	12	11.8	238	1
10	5530	15	12.9	414	1
11	5530	16	17.3	391	1
12	5530	15	17.3	367	1
13	5530	13	11.7	297	1
14	5530	14	13.1	291	1
15	5530	16	17.9	216	1
16	5530	15	15.7	481	1
17	5530	13	11.1	474	1
18	5530	12	19.7	313	1
19	5530	15	11.6	223	1
20	5530	12	15	305	1
21	5530	16	17	342	1
22	5530	13	12.1	428	1
23	5530	12	14.8	335	1
24	5530	15	16.4	238	1
25	5530	12	14.4	234	1
26	5530	14	17.6	287	1
27	5530	15	11.2	370	1
28	5530	16	19	434	1
29	5530	14	16.3	340	1
30	5530	15	12.1	233	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	64.9			0.96052	1
1	2	12	53.4	1990		2.102498	
2	3	18	69.7	1710	1638	3.828405	
3	3	7	83.2	1998	1003	4.864221	
4	3	6	86.8	1563	1925	6.067049	
5	2	17	61.2	1796		6.682167	
6	3	13	80.3	1216	1566	8.626345	
7	2	17	51.9	1630		9.575942	
8	2	11	89.6	1703		11.439296	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	96.3			0.515304	1
1	2	18	60.7	1126		0.657193	
2	3	19	86.5	1194	1761	1.29274	
3	2	10	81.4	1976		1.979899	
4	3	19	80.6	1695	1200	2.514148	
5	1	18	84.3			3.462132	
6	1	18	77.9			4.17408	
7	2	10	79.9	1320		4.593556	
8	3	19	89.1	1749	1925	4.83711	
9	1	13	84.4			5.779451	
10	2	13	53.9	1292		6.003702	
11	2	14	55.4	1258		7.191477	
12	1	9	64.2			7.361187	
13	3	13	56.2	1738	1655	8.162711	
14	2	19	96.6	1373		8.68751	
15	2	9	83.9	1652		9.202523	
16	3	19	80.5	1825	1779	10.011424	
17	3	13	92.6	1864	1716	10.591047	
18	2	6	58.6	1451		10.980389	
19	2	14	83.3	1514		11.665901	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	59.6	1747		0.035977	1
1	3	14	84.9	1834	1419	0.633837	
2	2	6	82.1	1662		1.721493	
3	2	18	65.2	1467		2.348207	
4	2	9	99.6	1373		2.607857	
5	1	15	55.1			3.711518	
6	1	17	58.2			3.9155	
7	2	12	61	1699		4.761738	
8	2	8	67.8	1331		5.555358	
9	3	10	76.2	1098	1976	6.005178	
10	2	15	87	1380		6.401013	
11	2	16	79.5	1305		7.378013	
12	3	16	50.5	1070	1750	7.938132	
13	1	16	79			8.210943	
14	1	13	65.6			9.013685	
15	2	10	59.2	1610		9.71003	
16	1	8	89.9			10.140588	
17	2	18	76.4	1305		10.824356	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	93.6	1539		0.415411	1
1	3	13	93.7	1820	1615	0.97314	
2	2	10	80.8	1145		1.953571	
3	2	12	92.3	1822		2.936143	
4	2	19	86.4	1295		3.506861	
5	2	8	74.5	1400		4.888068	
6	2	12	97.9	1332		5.735668	
7	3	15	87.2	1740	1191	6.55879	
8	1	12	54.8			6.912576	
9	1	6	54.5			7.857823	
10	1	11	65.9			9.082186	
11	2	14	53.1	1213		10.145188	
12	2	15	64.4	1176		10.634489	
13	1	6	89.5			11.347035	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	97.4			0.377878	1
1	3	19	75.4	1400	1225	0.967944	
2	3	8	70.1	1394	1478	2.186205	
3	2	10	86.4	1804		2.89983	
4	2	15	61.4	1125		3.164926	
5	3	12	70	1636	1177	4.075503	
6	2	9	51.3	1661		5.105397	
7	2	14	72	1168		5.464985	
8	1	14	71.3			6.307819	
9	2	20	64.6	1308		7.408203	
10	1	9	64.2			8.190203	
11	2	11	55.7	1315		8.368911	
12	2	19	52.3	1459		9.433598	
13	2	16	58.4	1377		9.932406	
14	3	11	62.4	1542	1153	10.806585	
15	1	5	82.3			11.683659	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	65.9	1917	1703	0.186799	1
1	1	20	76.7			1.579053	
2	2	15	79.5	1782		2.05776	
3	2	20	98.7	1597		2.826051	
4	2	17	66.2	1286		4.046013	
5	2	7	91.5	1919		4.386399	
6	3	12	62.4	1811	1230	5.183638	
7	3	7	95.8	1943	1716	6.048239	
8	3	11	57.4	1533	1971	7.569472	
9	3	6	61.1	1774	1227	8.561522	
10	2	16	86.3	1831		9.011753	
11	3	11	85.2	1755	1742	9.640579	
12	2	7	63.1	1363		10.389418	
13	1	6	57.1			11.43595	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	94.4			0.656088	
1	1	7	58.2			1.261527	
2	2	6	58.1	1390		1.970198	
3	2	7	59.2	1906		3.629953	
4	2	9	66.4	1378		3.961171	
5	2	15	71.3	1738		5.426759	
6	2	13	70.9	1755		5.826338	1
7	3	6	63.4	1172	1945	6.756722	
8	1	16	63.4			8.258063	
9	1	19	91			8.814178	
10	1	5	74.9			9.321619	
11	2	9	83.3	1330		10.651984	
12	2	6	66.1	1862		11.547583	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	92.2	1193		0.220172	
1	2	18	52.6	1329		1.623758	
2	1	12	82.3			1.935264	
3	3	19	98.9	1598	1785	3.251549	
4	2	12	68.7	1793		4.376257	
5	2	6	94.8	1179		4.683116	
6	2	17	94.7	1524		5.755136	1
7	2	16	91.5	1641		7.04213	
8	3	15	61.6	1525	1122	7.440468	
9	3	19	99.3	1709	1369	8.966455	
10	2	12	75.7	1220		9.350001	
11	2	14	57.7	1771		10.399118	
12	1	12	53.6			11.127484	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	59.9	1049	1696	0.061723	
1	2	6	64.7	1641		0.683671	
2	2	5	87.5	1941		1.351903	
3	2	18	78.1	1206		2.44412	
4	2	18	66.7	1817		3.025351	
5	2	10	88.1	1112		3.653766	
6	2	9	87.8	1097		4.002385	
7	3	9	87.8	1105	1259	4.718962	
8	3	12	69.8	1149	1639	5.471986	
9	1	18	65.8			6.030371	1
10	1	16	61			6.695585	
11	3	17	87.8	1350	1461	7.057083	
12	3	14	60.9	1559	1045	7.731286	
13	3	5	62.1	1242	1004	8.470617	
14	2	15	97.3	1016		9.444335	
15	2	18	85.6	1247		10.073493	
16	2	17	95.2	1253		10.663873	
17	2	13	59.3	1533		10.775053	
18	1	8	69.1			11.587201	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	67.6	1326		0.276339	1
1	2	17	58.3	1443		0.963949	
2	2	6	79.4	1848		1.982972	
3	3	12	89.9	1061	1955	2.227066	
4	3	10	99	1470	1994	2.989639	
5	2	7	87.3	1036		3.381284	
6	3	11	66.6	1720	1875	4.451083	
7	3	13	96.8	1847	1822	4.759431	
8	2	13	65.1	1839		5.442341	
9	3	7	87.7	1065	1903	6.334812	
10	2	16	61.7	1641		6.741098	
11	3	13	65.5	1451	1297	7.83787	
12	2	14	91.8	1655		8.086497	
13	2	6	95.8	1299		9.105555	
14	1	11	94.6			9.664296	
15	2	11	85.7	1507		10.379016	
16	3	17	87.7	1353	1285	11.185497	
17	3	12	98.7	1745	1381	11.731141	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	86.2			0.906222	1
1	1	10	69.5			1.263546	
2	2	15	81.1	1292		2.587064	
3	1	6	74.2			3.493013	
4	1	19	52.2			4.844731	
5	3	6	91.9	1803	1048	5.788158	
6	2	9	93.8	1847		6.184202	
7	2	16	69.5	1329		7.371344	
8	3	16	99.8	1399	1028	8.752154	
9	2	10	98.3	1839		9.350345	
10	3	16	70.5	1274	1026	10.030375	
11	3	14	97.3	1081	1714	11.559054	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	53.7	1131	1115	0.259193	1
1	3	12	65.4	1783	1219	1.240968	
2	3	15	50.2	1750	1767	1.455555	
3	3	16	51.4	1987	1468	2.305826	
4	1	15	60.4			3.201755	
5	1	10	91.4			3.873648	
6	2	14	76.5	1101		4.377338	
7	1	8	90.1			4.763014	
8	1	10	67.1			5.391	
9	1	17	94.7			6.320439	
10	1	9	99.7			7.107529	
11	2	10	54.7	1526		7.991091	
12	2	7	71.8	1936		8.062569	
13	1	10	66.3			9.022115	
14	2	5	86.5	1985		9.542627	
15	2	10	78.4	1928		10.396773	
16	3	7	82.5	1244	1148	11.000993	
17	2	14	99.5	1234		11.856749	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	51.8	1919		0.546303	
1	1	14	81.6			0.767917	
2	2	9	61.1	1914		1.596305	
3	2	13	96.6	1167		2.020689	
4	3	12	56.3	1649	1314	2.681114	
5	1	14	77.4			3.666308	
6	1	11	70.9			3.998115	
7	2	13	84.4	1660		5.000383	
8	2	12	55.3	1700		5.436115	
9	2	17	78.5	1940		6.090635	1
10	3	20	98.2	1472	1158	6.773558	
11	3	15	74.7	1214	1657	6.971908	
12	2	15	96.6	1567		7.88488	
13	1	16	95.5			8.288822	
14	2	18	86.4	1854		9.076829	
15	2	11	85.6	1774		9.722262	
16	2	8	68.2	1798		10.252912	
17	1	15	63.2			11.297097	
18	3	15	64.8	1080	1128	11.471132	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	90.4	1951	1018	0.047436	1
1	3	9	73.9	1474	1092	0.911341	
2	2	7	95.2	1061		1.835594	
3	1	17	78.6			2.448845	
4	2	8	69.2	1709		3.034977	
5	2	14	70.6	1804		3.912645	
6	2	13	88.8	1795		5.00572	
7	1	9	67.4			5.738474	
8	3	12	88.7	1848	1648	6.001281	
9	2	16	91.8	1278		7.24515	
10	2	13	74	1171		8.132404	
11	2	12	77.6	1492		8.677451	
12	2	15	97.2	1398		9.510966	
13	3	11	74.4	1709	1612	10.110236	
14	2	6	89.3	1024		11.196684	
15	2	18	99.8	1989		11.61495	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	85.3	1977		0.782691	1
1	3	12	87.1	1566	1203	2.50911	
2	1	14	81.2			2.935167	
3	1	14	70.9			4.075016	
4	2	16	85.8	1867		6.138662	
5	3	7	55.5	1280	1206	6.689867	
6	1	18	67			8.518208	
7	1	13	68.8			9.63439	
8	1	11	73.9			11.121967	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	56.6	1197		1.091053	1
1	3	17	79.3	1264	1364	1.658259	
2	1	10	93.1			2.933841	
3	2	10	96.2	1014		5.004637	
4	1	8	91.7			5.959388	
5	2	13	62.9	1367		7.431317	
6	3	5	70.7	1957	1233	8.577146	
7	3	16	67.6	1804	1218	9.953415	
8	1	10	75.3			11.360915	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	89.5			0.051019	1
1	1	11	95.7			1.482785	
2	2	15	85.4	1014		2.614868	
3	2	15	57.7	1369		3.285688	
4	1	8	72.5			4.083819	
5	2	15	75	1695		4.96204	
6	2	15	69.3	1244		6.145241	
7	1	18	53.6			7.251033	
8	3	15	53.8	1348	1813	7.46645	
9	1	15	60.9			8.85489	
10	2	20	94.8	1008		10.038848	
11	3	5	70.4	1531	1294	10.929231	
12	2	16	74	1473		11.545633	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	74			0.799083	1
1	2	6	93.4	1159		1.45045	
2	2	19	92.3	1947		2.534016	
3	2	10	99.3	1101		2.747404	
4	1	10	79.9			3.699456	
5	2	6	84.3	1110		5.11983	
6	2	16	83.4	1410		5.692749	
7	1	11	72.4			6.771225	
8	2	7	72.2	1796		7.601991	
9	2	18	82	1402		7.8396	
10	2	16	91.5	1948		8.718711	
11	1	18	64.4			10.048158	
12	1	5	64.5			10.972604	
13	2	12	94.8	1234		11.518846	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	87.2	1786	1655	0.281903	1
1	1	19	87.6			1.807036	
2	2	13	85.8	1639		3.08539	
3	2	10	85.4	1057		3.722686	
4	2	9	76	1833		4.853997	
5	1	6	56.6			6.290723	
6	3	12	65.4	1264	1120	7.262027	
7	1	13	97.4			8.920237	
8	2	6	56.1	1574		10.443354	
9	3	11	86.1	1807	1515	11.877595	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	58.1	1289		0.019608	
1	1	6	95.4			1.059183	
2	2	10	55	1367		1.506541	
3	2	18	72.7	1885		2.052728	
4	1	10	89.1			2.569808	
5	1	18	70.5			3.596472	
6	1	17	53.8			3.815287	
7	2	14	61.1	1369		4.534988	
8	2	6	98.1	1723		5.116487	
9	1	17	71.7			5.848596	1
10	1	12	62.3			6.864019	
11	2	9	69.2	1708		7.317396	
12	2	19	87.3	1575		7.841462	
13	1	9	82.2			8.401282	
14	2	17	51.5	1552		8.911489	
15	2	7	58	1956		9.591668	
16	2	13	87.7	1909		10.701604	
17	1	15	89.2			10.985805	
18	2	16	87.3	1946		11.702958	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	82.7	1679		0.467843	
1	3	8	63.4	1610	1723	1.917739	
2	2	15	57.6	1758		2.214256	
3	1	6	91.6			3.749692	
4	1	7	55.5			5.254596	
5	2	13	63.8	1477		5.619675	1
6	3	13	85.8	1400	1644	6.578742	
7	1	19	88.7			8.357506	
8	2	18	63.3	1324		9.796837	
9	3	10	90.1	1267	1185	10.32864	
10	2	9	73.5	1560		11.00923	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	79.4	1985	1177	0.766964	1
1	2	14	91.1	1816		1.57775	
2	3	14	78.7	1656	1039	2.918557	
3	2	13	57	1773		3.482801	
4	2	13	96.7	1156		5.400653	
5	2	8	83.9	1618		5.669747	
6	2	14	81.5	1732		6.91764	
7	3	18	90.3	1090	1700	7.939934	
8	2	19	54.3	1715		9.186904	
9	2	15	66.5	1504		9.890936	
10	1	19	76.7			11.910011	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	83.7	1553		0.265227	1
1	3	12	93.8	1590	1479	1.752736	
2	1	6	92.3			2.846577	
3	2	19	72.6	1255		4.228592	
4	2	14	62.2	1409		5.946409	
5	1	13	98.2			6.982745	
6	2	12	77	1696		8.14268	
7	3	14	64.6	1545	1458	10.160609	
8	2	8	69.4	1056		11.761531	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	89.5	1153	1325	0.404411	
1	1	8	82.1			1.551995	
2	2	17	60	1367		2.659914	
3	3	18	76.7	1369	1050	2.923977	
4	2	13	99.3	1560		3.88343	
5	2	11	70.5	1131		4.624371	
6	1	6	90.3			6.191132	1
7	3	5	54.5	1227	1762	6.493328	
8	2	8	73.8	1369		7.654434	
9	3	8	87.5	1558	1295	9.035779	
10	3	10	78.9	1141	1850	10.100097	
11	3	11	92.2	1512	1982	10.692562	
12	2	8	57.3	1418		11.662446	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	83.6	1548		0.252233	
1	1	7	52.7			1.018607	
2	3	11	77.5	1196	1858	1.664892	
3	3	12	70.4	1138	1934	2.405742	
4	2	6	64.2	1424		3.440334	
5	3	13	62.5	1623	1011	3.538304	
6	2	7	88.4	1188		4.29157	
7	2	11	96.5	1584		5.308823	
8	2	5	89.6	1334		5.922545	1
9	1	18	54.1			6.609194	
10	1	7	57.2			7.469792	
11	1	6	80			8.292221	
12	2	20	87.5	1356		8.564419	
13	1	7	62.9			9.796601	
14	2	7	84.3	1754		9.913831	
15	3	9	80.7	1824	1164	11.134705	
16	1	14	99.6			11.834425	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	62.8			0.440243	1
1	2	15	80.6	1676		1.423189	
2	2	17	96.6	1150		2.044905	
3	2	17	54.7	1412		3.441908	
4	1	14	78.8			4.278283	
5	3	13	97.3	1911	1090	5.004586	
6	3	15	87.5	1557	1747	6.703505	
7	3	9	74.6	1699	1016	7.173126	
8	2	7	52.2	1702		8.465697	
9	2	15	78.4	1181		9.56386	
10	2	18	54.2	1086		10.530087	
11	1	13	72			11.611322	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	89.6			0.826526	1
1	3	14	54.5	1419	1663	1.697647	
2	2	7	63.8	1029		2.559629	
3	1	15	71.4			3.039472	
4	2	11	87	1003		4.387837	
5	1	18	69			4.668433	
6	2	14	77.1	1647		5.612593	
7	1	13	54.6			7.060399	
8	1	11	89.1			7.990244	
9	2	9	66.2	1407		8.661911	
10	1	6	67.9			9.919964	
11	2	13	54.3	1003		10.390627	
12	1	14	89.3			11.162301	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	53.6	1137		0.472029	1
1	1	15	61.1			1.384536	
2	2	12	69.9	1002		1.582382	
3	2	13	90.9	1210		2.893414	
4	2	16	58.8	1647		3.184678	
5	1	8	59.3			3.827594	
6	2	15	59.3	1866		4.858069	
7	3	19	64	1631	1471	5.702408	
8	2	12	81.1	1450		6.489572	
9	2	7	94.7	1620		7.410114	
10	3	11	54	1604	1807	7.7132	
11	2	8	91.5	1572		8.809957	
12	1	14	62.3			9.596887	
13	2	18	95.7	1029		9.872177	
14	2	17	51.1	1827		11.148255	
15	2	6	71.4	1045		11.282208	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	77	1399	1981	0.593868	1
1	2	16	96.2	1955		1.605102	
2	2	12	84	1786		2.241304	
3	2	15	91	1953		3.247447	
4	1	18	58.3			3.722033	
5	2	17	94.1	1484		4.641363	
6	2	10	77.3	1937		5.790396	
7	3	15	72.8	1630	1040	6.474104	
8	3	7	54.1	1122	1952	7.039748	
9	2	13	91.7	1149		8.286831	
10	3	10	88.9	1450	1701	8.604315	
11	2	18	82.1	1805		9.753437	
12	2	11	63.3	1912		11.089085	
13	2	7	78.6	1993		11.260715	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	93.3			0.154657	1
1	2	12	64.3	1522		1.254619	
2	1	19	93.9			2.840648	
3	3	12	86.3	1269	1367	3.939874	
4	3	7	72.4	1873	1527	5.421916	
5	3	17	89.2	1114	1535	6.118727	
6	2	7	54.8	1225		7.349531	
7	2	15	70.9	1909		9.132258	
8	3	13	50.4	1034	1312	10.075983	
9	3	10	80.6	1195	1182	11.940178	

Table-6 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	5439.0, 5296.0, 5332.0, 5412.0, 5649.0, 5366.0, 5265.0, 5287.0, 5641.0, 5410.0, 5356.0, 5707.0, 5655.0, 5255.0, 5261.0, 5454.0, 5375.0, 5593.0, 5574.0, 5563.0, 5680.0, 5388.0, 5473.0, 5553.0, 5430.0, 5651.0, 5515.0, 5701.0, 5567.0, 5469.0, 5307.0, 5554.0, 5615.0, 5607.0, 5555.0, 5526.0, 5334.0, 5384.0, 5545.0, 5409.0, 5380.0, 5518.0, 5353.0, 5399.0, 5544.0, 5315.0, 5531.0, 5337.0, 5596.0, 5674.0, 5311.0, 5389.0, 5551.0, 5471.0, 5309.0, 5630.0, 5292.0, 5622.0, 5466.0, 5453.0, 5305.0, 5503.0, 5393.0, 5259.0, 5281.0, 5625.0, 5411.0, 5590.0, 5579.0, 5636.0, 5357.0, 5623.0, 5275.0, 5535.0, 5657.0, 5398.0, 5678.0, 5481.0, 5467.0, 5383.0, 5350.0, 5368.0, 5340.0, 5693.0, 5685.0, 5689.0, 5447.0, 5256.0, 5525.0, 5361.0, 5258.0, 5492.0, 5300.0, 5712.0, 5496.0, 5568.0, 5491.0, 5272.0, 5612.0, 5650.0 (number of hits: 18)
2	5530	9	1	333	1	5676.0, 5545.0, 5433.0, 5619.0, 5589.0, 5487.0, 5717.0, 5687.0, 5292.0, 5622.0, 5542.0, 5678.0, 5610.0, 5443.0, 5473.0, 5670.0, 5708.0, 5572.0, 5364.0, 5262.0, 5416.0, 5455.0, 5579.0, 5309.0, 5591.0, 5317.0, 5437.0, 5539.0, 5375.0, 5581.0, 5448.0, 5310.0, 5340.0, 5315.0, 5316.0, 5445.0, 5459.0, 5631.0, 5446.0, 5480.0, 5525.0, 5538.0, 5452.0, 5648.0, 5503.0, 5593.0, 5698.0, 5312.0, 5444.0, 5602.0, 5546.0, 5587.0, 5530.0, 5346.0, 5656.0, 5569.0, 5271.0, 5636.0, 5641.0, 5529.0, 5496.0, 5603.0, 5524.0, 5604.0, 5481.0, 5706.0, 5651.0, 5658.0, 5582.0, 5558.0, 5521.0, 5326.0, 5335.0, 5557.0, 5276.0, 5423.0, 5638.0, 5649.0, 5595.0, 5253.0, 5637.0, 5381.0, 5468.0, 5280.0, 5519.0, 5502.0, 5394.0, 5337.0, 5647.0, 5500.0, 5564.0, 5384.0, 5471.0, 5635.0, 5612.0, 5493.0, 5330.0, 5403.0, 5669.0, 5319.0 (number of hits: 14)
3	5530	9	1	333	1	5528.0, 5693.0, 5666.0, 5401.0, 5656.0, 5433.0, 5591.0, 5351.0, 5464.0, 5543.0, 5257.0, 5483.0, 5529.0, 5664.0, 5436.0, 5334.0, 5635.0, 5605.0, 5613.0, 5321.0, 5537.0, 5650.0, 5250.0, 5478.0, 5694.0, 5503.0, 5535.0, 5599.0, 5531.0, 5353.0, 5447.0, 5606.0, 5510.0, 5670.0, 5373.0, 5616.0, 5677.0, 5376.0, 5632.0, 5654.0, 5530.0, 5380.0, 5308.0, 5322.0, 5517.0, 5420.0, 5587.0, 5295.0, 5663.0, 5387.0, 5437.0, 5590.0, 5648.0, 5395.0, 5358.0, 5589.0, 5497.0, 5362.0, 5712.0, 5532.0,

						5719.0, 5480.0, 5553.0, 5560.0, 5389.0, 5649.0, 5287.0, 5584.0, 5491.0, 5374.0, 5370.0, 5350.0, 5442.0, 5722.0, 5717.0, 5593.0, 5294.0, 5576.0, 5583.0, 5359.0, 5326.0, 5341.0, 5386.0, 5451.0, 5691.0, 5282.0, 5492.0, 5390.0, 5379.0, 5547.0, 5683.0, 5256.0, 5400.0, 5554.0, 5272.0, 5534.0, 5298.0, 5463.0, 5317.0, 5627.0 (number of hits: 14)
4	5530	9	1	333	1	5492.0, 5448.0, 5600.0, 5453.0, 5556.0, 5656.0, 5554.0, 5279.0, 5587.0, 5361.0, 5444.0, 5455.0, 5356.0, 5397.0, 5483.0, 5706.0, 5530.0, 5467.0, 5385.0, 5609.0, 5618.0, 5343.0, 5403.0, 5421.0, 5323.0, 5365.0, 5542.0, 5722.0, 5270.0, 5407.0, 5646.0, 5367.0, 5304.0, 5272.0, 5559.0, 5567.0, 5650.0, 5334.0, 5436.0, 5308.0, 5405.0, 5603.0, 5328.0, 5321.0, 5655.0, 5451.0, 5324.0, 5702.0, 5400.0, 5680.0, 5693.0, 5380.0, 5584.0, 5327.0, 5614.0, 5260.0, 5477.0, 5683.0, 5302.0, 5570.0, 5413.0, 5524.0, 5543.0, 5489.0, 5573.0, 5340.0, 5621.0, 5387.0, 5590.0, 5457.0, 5440.0, 5414.0, 5446.0, 5409.0, 5622.0, 5459.0, 5585.0, 5579.0, 5657.0, 5450.0, 5576.0, 5374.0, 5672.0, 5641.0, 5510.0, 5607.0, 5665.0, 5341.0, 5527.0, 5437.0, 5509.0, 5512.0, 5344.0, 5424.0, 5396.0, 5382.0, 5290.0, 5637.0, 5445.0, 5277.0 (number of hits: 14)
5	5530	9	1	333	1	5700.0, 5494.0, 5330.0, 5410.0, 5621.0, 5418.0, 5547.0, 5317.0, 5497.0, 5652.0, 5619.0, 5319.0, 5452.0, 5484.0, 5660.0, 5457.0, 5314.0, 5479.0, 5616.0, 5710.0, 5352.0, 5615.0, 5383.0, 5628.0, 5666.0, 5554.0, 5707.0, 5264.0, 5585.0, 5536.0, 5683.0, 5694.0, 5517.0, 5693.0, 5320.0, 5687.0, 5604.0, 5648.0, 5491.0, 5386.0, 5582.0, 5417.0, 5454.0, 5637.0, 5371.0, 5590.0, 5561.0, 5525.0, 5598.0, 5482.0, 5401.0, 5395.0, 5476.0, 5546.0, 5559.0, 5642.0, 5338.0, 5709.0, 5428.0, 5538.0, 5629.0, 5474.0, 5360.0, 5255.0, 5378.0, 5676.0, 5325.0, 5528.0, 5305.0, 5426.0, 5641.0, 5266.0, 5531.0, 5427.0, 5355.0, 5618.0, 5468.0, 5393.0, 5391.0, 5594.0, 5480.0, 5461.0, 5574.0, 5542.0, 5612.0, 5365.0, 5560.0, 5502.0, 5580.0, 5304.0, 5499.0, 5289.0, 5429.0, 5434.0, 5368.0, 5329.0, 5408.0, 5695.0, 5366.0, 5509.0 (number of hits: 12)
6	5530	9	1	333	1	5717.0, 5587.0, 5422.0, 5476.0, 5378.0, 5441.0, 5370.0, 5344.0, 5674.0, 5496.0, 5469.0, 5669.0, 5456.0, 5251.0, 5477.0, 5526.0, 5677.0, 5653.0, 5388.0, 5408.0, 5685.0, 5672.0, 5632.0, 5575.0, 5529.0, 5287.0, 5723.0, 5270.0, 5288.0, 5593.0, 5276.0, 5629.0, 5525.0, 5639.0, 5260.0, 5306.0, 5658.0, 5499.0, 5268.0, 5358.0,

						5654.0, 5564.0, 5646.0, 5548.0, 5332.0, 5278.0, 5415.0, 5708.0, 5649.0, 5281.0, 5541.0, 5705.0, 5261.0, 5687.0, 5419.0, 5706.0, 5484.0, 5361.0, 5651.0, 5556.0, 5592.0, 5266.0, 5692.0, 5671.0, 5474.0, 5577.0, 5627.0, 5590.0, 5696.0, 5304.0, 5445.0, 5480.0, 5290.0, 5663.0, 5353.0, 5468.0, 5434.0, 5502.0, 5631.0, 5264.0, 5443.0, 5642.0, 5617.0, 5379.0, 5330.0, 5630.0, 5544.0, 5411.0, 5385.0, 5256.0, 5652.0, 5600.0, 5515.0, 5643.0, 5485.0, 5683.0, 5253.0, 5380.0, 5254.0, 5262.0 (number of hits: 19)
7	5530	9	1	333	1	5498.0, 5330.0, 5720.0, 5346.0, 5322.0, 5389.0, 5420.0, 5630.0, 5515.0, 5345.0, 5280.0, 5495.0, 5533.0, 5325.0, 5689.0, 5417.0, 5291.0, 5450.0, 5268.0, 5270.0, 5482.0, 5569.0, 5408.0, 5615.0, 5645.0, 5469.0, 5508.0, 5293.0, 5274.0, 5628.0, 5626.0, 5597.0, 5540.0, 5652.0, 5312.0, 5700.0, 5419.0, 5531.0, 5702.0, 5263.0, 5470.0, 5403.0, 5433.0, 5272.0, 5303.0, 5378.0, 5463.0, 5697.0, 5500.0, 5624.0, 5313.0, 5580.0, 5277.0, 5501.0, 5295.0, 5716.0, 5391.0, 5524.0, 5317.0, 5424.0, 5360.0, 5676.0, 5496.0, 5421.0, 5309.0, 5290.0, 5377.0, 5355.0, 5635.0, 5694.0, 5543.0, 5384.0, 5583.0, 5493.0, 5289.0, 5412.0, 5688.0, 5592.0, 5453.0, 5582.0, 5677.0, 5560.0, 5704.0, 5462.0, 5621.0, 5570.0, 5344.0, 5308.0, 5713.0, 5532.0, 5538.0, 5680.0, 5320.0, 5546.0, 5354.0, 5681.0, 5455.0, 5288.0, 5261.0, 5698.0 (number of hits: 23)
8	5530	9	1	333	1	5720.0, 5682.0, 5617.0, 5644.0, 5539.0, 5669.0, 5624.0, 5295.0, 5457.0, 5365.0, 5344.0, 5313.0, 5568.0, 5434.0, 5470.0, 5704.0, 5310.0, 5458.0, 5677.0, 5447.0, 5613.0, 5449.0, 5268.0, 5261.0, 5660.0, 5354.0, 5252.0, 5554.0, 5584.0, 5578.0, 5425.0, 5651.0, 5380.0, 5426.0, 5688.0, 5691.0, 5615.0, 5672.0, 5493.0, 5286.0, 5350.0, 5421.0, 5641.0, 5406.0, 5453.0, 5547.0, 5367.0, 5712.0, 5474.0, 5340.0, 5404.0, 5527.0, 5500.0, 5387.0, 5705.0, 5307.0, 5429.0, 5650.0, 5661.0, 5510.0, 5430.0, 5266.0, 5443.0, 5497.0, 5288.0, 5586.0, 5455.0, 5294.0, 5389.0, 5336.0, 5407.0, 5642.0, 5439.0, 5699.0, 5327.0, 5262.0, 5514.0, 5409.0, 5304.0, 5659.0, 5553.0, 5496.0, 5296.0, 5576.0, 5494.0, 5377.0, 5280.0, 5658.0, 5698.0, 5419.0, 5265.0, 5345.0, 5364.0, 5648.0, 5468.0, 5492.0, 5306.0, 5549.0, 5481.0, 5413.0 (number of hits: 18)
9	5530	9	1	333	1	5574.0, 5718.0, 5644.0, 5535.0, 5677.0, 5525.0, 5503.0, 5722.0, 5488.0, 5419.0, 5555.0, 5542.0, 5447.0, 5335.0, 5621.0, 5455.0, 5561.0, 5264.0, 5611.0, 5544.0,

						5330.0, 5654.0, 5691.0, 5582.0, 5463.0, 5481.0, 5302.0, 5326.0, 5508.0, 5468.0, 5557.0, 5485.0, 5642.0, 5673.0, 5258.0, 5272.0, 5665.0, 5290.0, 5466.0, 5392.0, 5295.0, 5382.0, 5318.0, 5328.0, 5688.0, 5711.0, 5594.0, 5435.0, 5256.0, 5413.0, 5637.0, 5251.0, 5526.0, 5312.0, 5715.0, 5373.0, 5405.0, 5348.0, 5461.0, 5287.0, 5279.0, 5608.0, 5477.0, 5507.0, 5543.0, 5366.0, 5661.0, 5666.0, 5268.0, 5385.0, 5437.0, 5619.0, 5388.0, 5389.0, 5271.0, 5683.0, 5423.0, 5710.0, 5609.0, 5350.0, 5325.0, 5520.0, 5509.0, 5704.0, 5358.0, 5306.0, 5558.0, 5648.0, 5519.0, 5301.0, 5476.0, 5600.0, 5573.0, 5613.0, 5347.0, 5565.0, 5491.0, 5352.0, 5344.0, 5420.0 (number of hits: 19)
10	5530	9	1	333	1	5691.0, 5253.0, 5410.0, 5452.0, 5504.0, 5274.0, 5287.0, 5667.0, 5700.0, 5639.0, 5437.0, 5620.0, 5263.0, 5690.0, 5348.0, 5395.0, 5641.0, 5548.0, 5530.0, 5354.0, 5267.0, 5306.0, 5676.0, 5629.0, 5479.0, 5578.0, 5403.0, 5637.0, 5714.0, 5358.0, 5666.0, 5658.0, 5382.0, 5351.0, 5443.0, 5268.0, 5483.0, 5439.0, 5499.0, 5429.0, 5344.0, 5485.0, 5304.0, 5444.0, 5269.0, 5449.0, 5686.0, 5538.0, 5371.0, 5275.0, 5624.0, 5685.0, 5567.0, 5519.0, 5619.0, 5334.0, 5377.0, 5341.0, 5283.0, 5545.0, 5677.0, 5313.0, 5688.0, 5307.0, 5262.0, 5266.0, 5528.0, 5264.0, 5575.0, 5628.0, 5514.0, 5416.0, 5673.0, 5680.0, 5281.0, 5588.0, 5716.0, 5454.0, 5448.0, 5404.0, 5556.0, 5279.0, 5508.0, 5406.0, 5609.0, 5470.0, 5473.0, 5477.0, 5604.0, 5299.0, 5326.0, 5547.0, 5701.0, 5517.0, 5614.0, 5590.0, 5498.0, 5486.0, 5330.0, 5531.0 (number of hits: 20)
11	5530	9	1	333	1	5640.0, 5543.0, 5520.0, 5660.0, 5461.0, 5384.0, 5648.0, 5278.0, 5443.0, 5481.0, 5703.0, 5537.0, 5420.0, 5487.0, 5486.0, 5294.0, 5413.0, 5398.0, 5534.0, 5639.0, 5463.0, 5555.0, 5284.0, 5480.0, 5387.0, 5584.0, 5697.0, 5637.0, 5711.0, 5488.0, 5335.0, 5548.0, 5559.0, 5459.0, 5510.0, 5351.0, 5472.0, 5458.0, 5347.0, 5341.0, 5277.0, 5628.0, 5602.0, 5311.0, 5598.0, 5358.0, 5374.0, 5712.0, 5346.0, 5451.0, 5575.0, 5643.0, 5583.0, 5393.0, 5497.0, 5364.0, 5350.0, 5328.0, 5504.0, 5429.0, 5506.0, 5508.0, 5304.0, 5256.0, 5700.0, 5582.0, 5519.0, 5707.0, 5285.0, 5320.0, 5507.0, 5356.0, 5699.0, 5322.0, 5556.0, 5542.0, 5440.0, 5688.0, 5314.0, 5409.0, 5369.0, 5426.0, 5281.0, 5417.0, 5309.0, 5324.0, 5475.0, 5672.0, 5509.0, 5452.0, 5634.0, 5424.0, 5271.0, 5614.0, 5593.0, 5599.0, 5327.0, 5329.0, 5484.0, 5283.0 (number of hits: 19)

12	5530	9	1	333	1	5284.0, 5545.0, 5494.0, 5697.0, 5675.0, 5428.0, 5347.0, 5397.0, 5457.0, 5631.0, 5414.0, 5567.0, 5441.0, 5400.0, 5511.0, 5674.0, 5603.0, 5408.0, 5678.0, 5605.0, 5274.0, 5583.0, 5396.0, 5349.0, 5355.0, 5403.0, 5383.0, 5637.0, 5691.0, 5474.0, 5424.0, 5496.0, 5619.0, 5436.0, 5612.0, 5410.0, 5544.0, 5345.0, 5466.0, 5481.0, 5577.0, 5297.0, 5450.0, 5551.0, 5685.0, 5261.0, 5649.0, 5655.0, 5271.0, 5452.0, 5493.0, 5689.0, 5281.0, 5413.0, 5291.0, 5276.0, 5295.0, 5392.0, 5304.0, 5555.0, 5363.0, 5656.0, 5556.0, 5389.0, 5292.0, 5522.0, 5310.0, 5597.0, 5512.0, 5492.0, 5486.0, 5715.0, 5431.0, 5360.0, 5535.0, 5662.0, 5456.0, 5369.0, 5534.0, 5576.0, 5411.0, 5553.0, 5596.0, 5422.0, 5401.0, 5361.0, 5547.0, 5572.0, 5423.0, 5406.0, 5280.0, 5640.0, 5482.0, 5614.0, 5564.0, 5539.0, 5587.0, 5265.0, 5634.0, 5633.0 (number of hits: 14)
13	5530	9	1	333	1	5357.0, 5445.0, 5634.0, 5678.0, 5311.0, 5440.0, 5394.0, 5520.0, 5580.0, 5347.0, 5677.0, 5569.0, 5635.0, 5325.0, 5288.0, 5435.0, 5614.0, 5607.0, 5489.0, 5422.0, 5656.0, 5276.0, 5434.0, 5653.0, 5624.0, 5566.0, 5649.0, 5321.0, 5498.0, 5303.0, 5570.0, 5496.0, 5531.0, 5264.0, 5401.0, 5667.0, 5679.0, 5466.0, 5708.0, 5455.0, 5421.0, 5499.0, 5418.0, 5481.0, 5519.0, 5702.0, 5628.0, 5672.0, 5294.0, 5493.0, 5316.0, 5467.0, 5279.0, 5349.0, 5469.0, 5251.0, 5619.0, 5258.0, 5703.0, 5267.0, 5551.0, 5690.0, 5366.0, 5438.0, 5687.0, 5587.0, 5561.0, 5278.0, 5694.0, 5630.0, 5609.0, 5682.0, 5564.0, 5361.0, 5713.0, 5696.0, 5684.0, 5577.0, 5712.0, 5465.0, 5670.0, 5408.0, 5447.0, 5272.0, 5371.0, 5400.0, 5290.0, 5680.0, 5487.0, 5473.0, 5553.0, 5689.0, 5513.0, 5602.0, 5533.0, 5388.0, 5300.0, 5474.0, 5442.0, 5461.0 (number of hits: 17)
14	5530	9	1	333	1	5686.0, 5518.0, 5283.0, 5359.0, 5356.0, 5292.0, 5474.0, 5697.0, 5645.0, 5313.0, 5304.0, 5296.0, 5482.0, 5351.0, 5503.0, 5658.0, 5521.0, 5400.0, 5376.0, 5720.0, 5706.0, 5298.0, 5511.0, 5531.0, 5609.0, 5411.0, 5265.0, 5268.0, 5595.0, 5576.0, 5299.0, 5517.0, 5284.0, 5676.0, 5653.0, 5480.0, 5346.0, 5633.0, 5572.0, 5507.0, 5608.0, 5380.0, 5394.0, 5436.0, 5305.0, 5724.0, 5437.0, 5326.0, 5718.0, 5524.0, 5522.0, 5514.0, 5691.0, 5552.0, 5413.0, 5330.0, 5537.0, 5333.0, 5396.0, 5451.0, 5712.0, 5379.0, 5630.0, 5342.0, 5425.0, 5508.0, 5553.0, 5350.0, 5369.0, 5699.0, 5450.0, 5266.0, 5252.0, 5484.0, 5358.0, 5650.0, 5525.0, 5469.0, 5344.0, 5465.0, 5420.0, 5533.0, 5615.0, 5272.0, 5669.0,

						5491.0, 5424.0, 5554.0, 5689.0, 5641.0, 5591.0, 5562.0, 5661.0, 5398.0, 5708.0, 5580.0, 5665.0, 5329.0, 5632.0, 5361.0 (number of hits: 16)
15	5530	9	1	333	1	5722.0, 5697.0, 5493.0, 5640.0, 5629.0, 5715.0, 5461.0, 5384.0, 5608.0, 5515.0, 5643.0, 5369.0, 5350.0, 5416.0, 5589.0, 5641.0, 5388.0, 5309.0, 5496.0, 5352.0, 5683.0, 5478.0, 5663.0, 5495.0, 5502.0, 5622.0, 5667.0, 5364.0, 5429.0, 5574.0, 5298.0, 5335.0, 5472.0, 5375.0, 5687.0, 5504.0, 5609.0, 5270.0, 5657.0, 5679.0, 5613.0, 5421.0, 5328.0, 5646.0, 5664.0, 5316.0, 5554.0, 5256.0, 5561.0, 5368.0, 5339.0, 5444.0, 5304.0, 5702.0, 5320.0, 5500.0, 5323.0, 5377.0, 5327.0, 5616.0, 5477.0, 5443.0, 5408.0, 5544.0, 5549.0, 5576.0, 5417.0, 5431.0, 5698.0, 5562.0, 5625.0, 5721.0, 5259.0, 5516.0, 5280.0, 5465.0, 5400.0, 5466.0, 5306.0, 5329.0, 5570.0, 5404.0, 5273.0, 5332.0, 5358.0, 5373.0, 5399.0, 5686.0, 5654.0, 5278.0, 5565.0, 5572.0, 5301.0, 5333.0, 5366.0, 5483.0, 5642.0, 5566.0, 5367.0, 5331.0 (number of hits: 17)
16	5530	9	1	333	1	5556.0, 5573.0, 5609.0, 5420.0, 5286.0, 5469.0, 5501.0, 5296.0, 5548.0, 5679.0, 5640.0, 5443.0, 5628.0, 5507.0, 5559.0, 5376.0, 5563.0, 5409.0, 5676.0, 5293.0, 5284.0, 5280.0, 5326.0, 5435.0, 5681.0, 5718.0, 5492.0, 5512.0, 5302.0, 5304.0, 5370.0, 5545.0, 5552.0, 5669.0, 5491.0, 5425.0, 5641.0, 5279.0, 5457.0, 5331.0, 5314.0, 5488.0, 5657.0, 5369.0, 5354.0, 5342.0, 5406.0, 5607.0, 5710.0, 5359.0, 5598.0, 5596.0, 5464.0, 5301.0, 5283.0, 5693.0, 5454.0, 5468.0, 5593.0, 5460.0, 5702.0, 5544.0, 5590.0, 5649.0, 5404.0, 5605.0, 5635.0, 5523.0, 5582.0, 5595.0, 5585.0, 5251.0, 5668.0, 5531.0, 5275.0, 5277.0, 5542.0, 5432.0, 5341.0, 5332.0, 5539.0, 5621.0, 5372.0, 5353.0, 5612.0, 5650.0, 5445.0, 5389.0, 5417.0, 5382.0, 5568.0, 5256.0, 5270.0, 5498.0, 5535.0, 5271.0, 5365.0, 5576.0, 5602.0, 5551.0 (number of hits: 18)
17	5530	9	1	333	1	5410.0, 5520.0, 5557.0, 5516.0, 5450.0, 5420.0, 5575.0, 5580.0, 5719.0, 5440.0, 5677.0, 5332.0, 5574.0, 5612.0, 5531.0, 5347.0, 5578.0, 5604.0, 5663.0, 5388.0, 5594.0, 5442.0, 5563.0, 5270.0, 5570.0, 5376.0, 5430.0, 5543.0, 5592.0, 5363.0, 5480.0, 5717.0, 5254.0, 5558.0, 5613.0, 5458.0, 5631.0, 5642.0, 5724.0, 5446.0, 5534.0, 5546.0, 5272.0, 5481.0, 5662.0, 5372.0, 5323.0, 5273.0, 5434.0, 5655.0, 5408.0, 5401.0, 5268.0, 5694.0, 5653.0, 5284.0, 5290.0, 5628.0, 5399.0, 5630.0, 5398.0, 5622.0, 5545.0, 5456.0, 5633.0,

						5316.0, 5330.0, 5669.0, 5567.0, 5267.0, 5606.0, 5409.0, 5583.0, 5356.0, 5564.0, 5287.0, 5394.0, 5627.0, 5649.0, 5289.0, 5498.0, 5691.0, 5702.0, 5419.0, 5566.0, 5483.0, 5505.0, 5519.0, 5685.0, 5637.0, 5439.0, 5565.0, 5504.0, 5257.0, 5302.0, 5616.0, 5518.0, 5602.0, 5496.0, 5345.0 (number of hits: 14)
18	5530	9	1	333	1	5471.0, 5470.0, 5512.0, 5376.0, 5330.0, 5299.0, 5423.0, 5705.0, 5337.0, 5427.0, 5258.0, 5532.0, 5619.0, 5302.0, 5614.0, 5589.0, 5647.0, 5711.0, 5681.0, 5342.0, 5600.0, 5560.0, 5482.0, 5585.0, 5675.0, 5567.0, 5526.0, 5521.0, 5554.0, 5387.0, 5381.0, 5635.0, 5257.0, 5449.0, 5712.0, 5497.0, 5273.0, 5704.0, 5261.0, 5527.0, 5660.0, 5303.0, 5708.0, 5679.0, 5649.0, 5430.0, 5601.0, 5250.0, 5289.0, 5609.0, 5616.0, 5379.0, 5316.0, 5397.0, 5577.0, 5452.0, 5659.0, 5670.0, 5256.0, 5510.0, 5571.0, 5631.0, 5615.0, 5713.0, 5656.0, 5556.0, 5308.0, 5535.0, 5329.0, 5546.0, 5469.0, 5364.0, 5278.0, 5394.0, 5411.0, 5542.0, 5492.0, 5335.0, 5388.0, 5610.0, 5513.0, 5663.0, 5262.0, 5625.0, 5461.0, 5284.0, 5678.0, 5345.0, 5343.0, 5434.0, 5501.0, 5569.0, 5698.0, 5564.0, 5642.0, 5473.0, 5486.0, 5276.0, 5540.0, 5422.0 (number of hits: 17)
19	5530	9	1	333	1	5538.0, 5722.0, 5594.0, 5562.0, 5513.0, 5697.0, 5522.0, 5518.0, 5281.0, 5289.0, 5390.0, 5369.0, 5639.0, 5307.0, 5529.0, 5677.0, 5654.0, 5680.0, 5511.0, 5682.0, 5649.0, 5637.0, 5351.0, 5474.0, 5471.0, 5663.0, 5252.0, 5346.0, 5308.0, 5531.0, 5262.0, 5439.0, 5348.0, 5700.0, 5441.0, 5534.0, 5708.0, 5383.0, 5721.0, 5532.0, 5684.0, 5546.0, 5270.0, 5276.0, 5473.0, 5526.0, 5414.0, 5268.0, 5567.0, 5291.0, 5675.0, 5614.0, 5695.0, 5431.0, 5609.0, 5541.0, 5679.0, 5575.0, 5481.0, 5568.0, 5451.0, 5668.0, 5426.0, 5454.0, 5646.0, 5386.0, 5294.0, 5413.0, 5295.0, 5367.0, 5553.0, 5460.0, 5509.0, 5667.0, 5299.0, 5447.0, 5688.0, 5572.0, 5442.0, 5415.0, 5402.0, 5467.0, 5332.0, 5470.0, 5373.0, 5344.0, 5506.0, 5301.0, 5401.0, 5421.0, 5659.0, 5418.0, 5576.0, 5277.0, 5321.0, 5331.0, 5476.0, 5340.0, 5648.0, 5523.0 (number of hits: 16)
20	5530	9	1	333	1	5391.0, 5625.0, 5689.0, 5679.0, 5367.0, 5519.0, 5655.0, 5405.0, 5357.0, 5595.0, 5371.0, 5523.0, 5490.0, 5266.0, 5614.0, 5342.0, 5631.0, 5407.0, 5648.0, 5493.0, 5327.0, 5292.0, 5470.0, 5665.0, 5290.0, 5668.0, 5537.0, 5662.0, 5285.0, 5623.0, 5294.0, 5400.0, 5720.0, 5299.0, 5642.0, 5588.0, 5404.0, 5541.0, 5377.0, 5619.0, 5707.0, 5659.0, 5318.0, 5291.0, 5492.0,

						5577.0, 5604.0, 5544.0, 5341.0, 5409.0, 5646.0, 5475.0, 5322.0, 5422.0, 5260.0, 5628.0, 5461.0, 5427.0, 5583.0, 5418.0, 5561.0, 5386.0, 5403.0, 5530.0, 5401.0, 5675.0, 5601.0, 5330.0, 5555.0, 5526.0, 5252.0, 5283.0, 5723.0, 5344.0, 5503.0, 5303.0, 5569.0, 5584.0, 5390.0, 5527.0, 5345.0, 5717.0, 5501.0, 5613.0, 5265.0, 5672.0, 5385.0, 5566.0, 5589.0, 5722.0, 5397.0, 5269.0, 5263.0, 5396.0, 5301.0, 5380.0, 5270.0, 5620.0, 5445.0, 5654.0 (number of hits: 19)
21	5530	9	1	333	1	5448.0, 5373.0, 5263.0, 5699.0, 5653.0, 5361.0, 5688.0, 5265.0, 5272.0, 5266.0, 5680.0, 5698.0, 5406.0, 5566.0, 5397.0, 5472.0, 5654.0, 5607.0, 5526.0, 5668.0, 5575.0, 5267.0, 5611.0, 5429.0, 5522.0, 5603.0, 5349.0, 5363.0, 5672.0, 5428.0, 5306.0, 5302.0, 5549.0, 5445.0, 5501.0, 5601.0, 5645.0, 5648.0, 5697.0, 5286.0, 5260.0, 5419.0, 5687.0, 5273.0, 5327.0, 5354.0, 5511.0, 5543.0, 5368.0, 5577.0, 5570.0, 5498.0, 5335.0, 5612.0, 5325.0, 5352.0, 5702.0, 5457.0, 5717.0, 5541.0, 5523.0, 5331.0, 5632.0, 5704.0, 5567.0, 5542.0, 5655.0, 5710.0, 5332.0, 5703.0, 5316.0, 5420.0, 5701.0, 5491.0, 5537.0, 5341.0, 5506.0, 5638.0, 5276.0, 5446.0, 5679.0, 5308.0, 5644.0, 5495.0, 5458.0, 5473.0, 5534.0, 5641.0, 5631.0, 5356.0, 5663.0, 5251.0, 5568.0, 5324.0, 5386.0, 5693.0, 5466.0, 5505.0, 5329.0, 5410.0 (number of hits: 18)
22	5530	9	1	333	1	5579.0, 5252.0, 5628.0, 5574.0, 5713.0, 5409.0, 5566.0, 5719.0, 5607.0, 5429.0, 5283.0, 5483.0, 5265.0, 5603.0, 5377.0, 5378.0, 5457.0, 5349.0, 5536.0, 5688.0, 5272.0, 5698.0, 5314.0, 5613.0, 5693.0, 5261.0, 5383.0, 5711.0, 5408.0, 5250.0, 5710.0, 5666.0, 5290.0, 5442.0, 5544.0, 5532.0, 5271.0, 5518.0, 5619.0, 5556.0, 5633.0, 5550.0, 5573.0, 5594.0, 5307.0, 5294.0, 5626.0, 5427.0, 5601.0, 5575.0, 5526.0, 5540.0, 5330.0, 5299.0, 5502.0, 5524.0, 5699.0, 5273.0, 5675.0, 5256.0, 5631.0, 5627.0, 5592.0, 5285.0, 5503.0, 5498.0, 5593.0, 5400.0, 5287.0, 5676.0, 5460.0, 5519.0, 5677.0, 5473.0, 5405.0, 5402.0, 5520.0, 5366.0, 5431.0, 5354.0, 5375.0, 5690.0, 5656.0, 5350.0, 5678.0, 5528.0, 5661.0, 5459.0, 5507.0, 5706.0, 5658.0, 5487.0, 5651.0, 5716.0, 5484.0, 5611.0, 5305.0, 5634.0, 5702.0, 5663.0 (number of hits: 17)
23	5530	9	1	333	1	5434.0, 5570.0, 5502.0, 5292.0, 5485.0, 5622.0, 5433.0, 5421.0, 5325.0, 5709.0, 5508.0, 5301.0, 5503.0, 5427.0, 5493.0, 5278.0, 5614.0, 5425.0, 5361.0, 5643.0, 5386.0, 5540.0, 5667.0, 5370.0, 5269.0,

						5603.0, 5544.0, 5367.0, 5295.0, 5267.0, 5391.0, 5282.0, 5355.0, 5275.0, 5647.0, 5254.0, 5563.0, 5336.0, 5609.0, 5500.0, 5298.0, 5414.0, 5318.0, 5714.0, 5635.0, 5359.0, 5718.0, 5498.0, 5356.0, 5680.0, 5587.0, 5721.0, 5539.0, 5412.0, 5562.0, 5690.0, 5448.0, 5506.0, 5711.0, 5695.0, 5346.0, 5363.0, 5362.0, 5719.0, 5461.0, 5415.0, 5343.0, 5352.0, 5644.0, 5628.0, 5477.0, 5631.0, 5277.0, 5678.0, 5437.0, 5438.0, 5650.0, 5595.0, 5627.0, 5702.0, 5490.0, 5673.0, 5637.0, 5314.0, 5286.0, 5354.0, 5454.0, 5424.0, 5504.0, 5331.0, 5307.0, 5546.0, 5400.0, 5380.0, 5708.0, 5545.0, 5617.0, 5606.0, 5478.0, 5668.0 (number of hits: 16)
24	5530	9	1	333	1	5456.0, 5357.0, 5478.0, 5365.0, 5386.0, 5326.0, 5300.0, 5590.0, 5429.0, 5381.0, 5700.0, 5263.0, 5411.0, 5332.0, 5629.0, 5526.0, 5688.0, 5336.0, 5588.0, 5261.0, 5349.0, 5435.0, 5596.0, 5353.0, 5609.0, 5672.0, 5583.0, 5402.0, 5286.0, 5295.0, 5445.0, 5515.0, 5544.0, 5334.0, 5352.0, 5385.0, 5287.0, 5560.0, 5514.0, 5321.0, 5303.0, 5420.0, 5530.0, 5694.0, 5257.0, 5536.0, 5577.0, 5671.0, 5539.0, 5566.0, 5621.0, 5660.0, 5535.0, 5627.0, 5275.0, 5447.0, 5448.0, 5468.0, 5311.0, 5503.0, 5565.0, 5426.0, 5383.0, 5585.0, 5502.0, 5251.0, 5306.0, 5575.0, 5274.0, 5253.0, 5291.0, 5309.0, 5718.0, 5610.0, 5633.0, 5485.0, 5404.0, 5477.0, 5551.0, 5475.0, 5704.0, 5602.0, 5697.0, 5480.0, 5362.0, 5625.0, 5595.0, 5479.0, 5564.0, 5652.0, 5717.0, 5269.0, 5665.0, 5554.0, 5587.0, 5567.0, 5497.0, 5716.0, 5419.0, 5619.0 (number of hits: 19)
25	5530	9	1	333	1	5456.0, 5610.0, 5437.0, 5528.0, 5335.0, 5309.0, 5699.0, 5715.0, 5443.0, 5521.0, 5564.0, 5413.0, 5584.0, 5300.0, 5269.0, 5675.0, 5683.0, 5568.0, 5712.0, 5723.0, 5592.0, 5478.0, 5371.0, 5612.0, 5555.0, 5409.0, 5692.0, 5356.0, 5711.0, 5616.0, 5334.0, 5376.0, 5319.0, 5646.0, 5656.0, 5701.0, 5658.0, 5384.0, 5310.0, 5582.0, 5367.0, 5525.0, 5366.0, 5647.0, 5278.0, 5498.0, 5257.0, 5327.0, 5512.0, 5691.0, 5363.0, 5654.0, 5489.0, 5399.0, 5263.0, 5262.0, 5253.0, 5403.0, 5442.0, 5302.0, 5305.0, 5365.0, 5351.0, 5500.0, 5554.0, 5325.0, 5627.0, 5702.0, 5501.0, 5488.0, 5713.0, 5428.0, 5499.0, 5533.0, 5604.0, 5688.0, 5323.0, 5374.0, 5593.0, 5534.0, 5524.0, 5666.0, 5694.0, 5288.0, 5587.0, 5379.0, 5670.0, 5382.0, 5406.0, 5407.0, 5597.0, 5380.0, 5474.0, 5676.0, 5417.0, 5423.0, 5655.0, 5643.0, 5291.0, 5318.0 (number of hits: 18)
26	5530	9	1	333	1	5252.0, 5345.0, 5661.0, 5262.0, 5583.0,

						5461.0, 5723.0, 5278.0, 5382.0, 5702.0, 5377.0, 5722.0, 5321.0, 5543.0, 5499.0, 5621.0, 5287.0, 5324.0, 5453.0, 5596.0, 5478.0, 5336.0, 5539.0, 5476.0, 5325.0, 5639.0, 5556.0, 5261.0, 5297.0, 5655.0, 5616.0, 5393.0, 5663.0, 5682.0, 5452.0, 5399.0, 5387.0, 5645.0, 5637.0, 5506.0, 5665.0, 5648.0, 5320.0, 5497.0, 5413.0, 5350.0, 5710.0, 5379.0, 5492.0, 5579.0, 5519.0, 5551.0, 5308.0, 5664.0, 5349.0, 5676.0, 5290.0, 5445.0, 5554.0, 5705.0, 5654.0, 5417.0, 5673.0, 5518.0, 5633.0, 5709.0, 5612.0, 5340.0, 5715.0, 5603.0, 5440.0, 5431.0, 5424.0, 5593.0, 5643.0, 5523.0, 5427.0, 5625.0, 5384.0, 5310.0, 5443.0, 5548.0, 5696.0, 5577.0, 5317.0, 5314.0, 5356.0, 5339.0, 5571.0, 5573.0, 5552.0, 5675.0, 5517.0, 5344.0, 5688.0, 5568.0, 5293.0, 5253.0, 5300.0, 5309.0 (number of hits: 19)
27	5530	9	1	333	1	5666.0, 5562.0, 5639.0, 5397.0, 5537.0, 5446.0, 5389.0, 5347.0, 5310.0, 5501.0, 5521.0, 5408.0, 5369.0, 5660.0, 5480.0, 5334.0, 5591.0, 5607.0, 5701.0, 5711.0, 5560.0, 5671.0, 5444.0, 5400.0, 5525.0, 5308.0, 5583.0, 5704.0, 5676.0, 5565.0, 5407.0, 5572.0, 5360.0, 5581.0, 5588.0, 5269.0, 5528.0, 5506.0, 5482.0, 5455.0, 5448.0, 5261.0, 5252.0, 5461.0, 5253.0, 5394.0, 5541.0, 5568.0, 5481.0, 5411.0, 5580.0, 5428.0, 5577.0, 5531.0, 5590.0, 5716.0, 5453.0, 5413.0, 5377.0, 5311.0, 5260.0, 5690.0, 5410.0, 5364.0, 5483.0, 5558.0, 5559.0, 5271.0, 5402.0, 5617.0, 5422.0, 5462.0, 5675.0, 5290.0, 5672.0, 5302.0, 5556.0, 5596.0, 5663.0, 5266.0, 5267.0, 5270.0, 5499.0, 5279.0, 5342.0, 5719.0, 5536.0, 5263.0, 5604.0, 5412.0, 5273.0, 5712.0, 5352.0, 5622.0, 5576.0, 5259.0, 5450.0, 5718.0, 5351.0, 5555.0 (number of hits: 18)
28	5530	9	1	333	1	5553.0, 5317.0, 5707.0, 5614.0, 5577.0, 5485.0, 5680.0, 5632.0, 5254.0, 5425.0, 5433.0, 5369.0, 5285.0, 5665.0, 5538.0, 5591.0, 5550.0, 5542.0, 5601.0, 5698.0, 5299.0, 5642.0, 5322.0, 5578.0, 5701.0, 5517.0, 5708.0, 5280.0, 5595.0, 5544.0, 5512.0, 5265.0, 5643.0, 5557.0, 5566.0, 5471.0, 5430.0, 5548.0, 5281.0, 5719.0, 5580.0, 5355.0, 5457.0, 5271.0, 5266.0, 5560.0, 5501.0, 5331.0, 5314.0, 5506.0, 5348.0, 5431.0, 5387.0, 5536.0, 5518.0, 5710.0, 5662.0, 5337.0, 5447.0, 5366.0, 5623.0, 5589.0, 5293.0, 5375.0, 5354.0, 5565.0, 5468.0, 5599.0, 5604.0, 5278.0, 5503.0, 5636.0, 5350.0, 5385.0, 5401.0, 5412.0, 5478.0, 5568.0, 5336.0, 5619.0, 5411.0, 5259.0, 5583.0, 5416.0, 5357.0, 5602.0, 5528.0, 5441.0, 5572.0, 5308.0,

						5329.0, 5396.0, 5288.0, 5666.0, 5515.0, 5334.0, 5392.0, 5349.0, 5420.0, 5381.0 (number of hits: 17)
29	5530	9	1	333	1	5399.0, 5583.0, 5345.0, 5687.0, 5478.0, 5659.0, 5389.0, 5664.0, 5376.0, 5637.0, 5405.0, 5504.0, 5438.0, 5432.0, 5451.0, 5610.0, 5615.0, 5574.0, 5409.0, 5418.0, 5676.0, 5292.0, 5639.0, 5423.0, 5711.0, 5609.0, 5675.0, 5326.0, 5498.0, 5341.0, 5506.0, 5447.0, 5260.0, 5374.0, 5471.0, 5635.0, 5375.0, 5502.0, 5267.0, 5515.0, 5279.0, 5434.0, 5360.0, 5322.0, 5394.0, 5604.0, 5571.0, 5483.0, 5701.0, 5419.0, 5600.0, 5631.0, 5718.0, 5289.0, 5671.0, 5577.0, 5512.0, 5593.0, 5338.0, 5486.0, 5670.0, 5528.0, 5444.0, 5686.0, 5411.0, 5568.0, 5587.0, 5401.0, 5448.0, 5392.0, 5350.0, 5537.0, 5588.0, 5663.0, 5340.0, 5629.0, 5400.0, 5569.0, 5640.0, 5679.0, 5462.0, 5622.0, 5270.0, 5367.0, 5316.0, 5607.0, 5614.0, 5529.0, 5385.0, 5549.0, 5437.0, 5476.0, 5356.0, 5678.0, 5601.0, 5525.0, 5677.0, 5378.0, 5348.0, 5359.0 (number of hits: 9)
30	5530	9	1	333	1	5697.0, 5283.0, 5460.0, 5575.0, 5281.0, 5449.0, 5569.0, 5567.0, 5400.0, 5457.0, 5433.0, 5406.0, 5349.0, 5311.0, 5334.0, 5549.0, 5701.0, 5673.0, 5380.0, 5372.0, 5378.0, 5253.0, 5489.0, 5579.0, 5626.0, 5403.0, 5539.0, 5655.0, 5638.0, 5628.0, 5669.0, 5558.0, 5691.0, 5418.0, 5255.0, 5300.0, 5530.0, 5648.0, 5463.0, 5524.0, 5616.0, 5451.0, 5513.0, 5540.0, 5534.0, 5608.0, 5533.0, 5386.0, 5426.0, 5266.0, 5521.0, 5596.0, 5265.0, 5679.0, 5623.0, 5376.0, 5431.0, 5609.0, 5706.0, 5593.0, 5564.0, 5346.0, 5424.0, 5696.0, 5487.0, 5332.0, 5304.0, 5391.0, 5621.0, 5632.0, 5440.0, 5562.0, 5455.0, 5512.0, 5684.0, 5410.0, 5375.0, 5687.0, 5419.0, 5263.0, 5582.0, 5640.0, 5543.0, 5251.0, 5553.0, 5278.0, 5492.0, 5270.0, 5585.0, 5656.0, 5434.0, 5636.0, 5686.0, 5354.0, 5415.0, 5710.0, 5502.0, 5468.0, 5685.0, 5610.0 (number of hits: 13)