FCC PART 15.407
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

Senao Networks, Inc.

3F, No.529, Chung Cheng Road,

Hsintien, Taipei, Taiwan, R.O.C

FCC ID: U2M-PCE4551AH

Report Type:	**Equipment Type:**
Class II Permissive Change	802.11 ac PCIe module

Prepared By	Chen Ge Test Engineer
Report Number	R1406301-DFS
Report Date	2014-07-31
Reviewed By	Ivan Cao RF Lead
	Bay Area Compliance Laboratories Corporation (BACL) 1274 Anvilwood Avenue, Sunnyvale, CA 94089, USA Tel: (408) 732-9162 Fax: (408) 732-9164

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1406301-DFS	Original Report	2014-07-31

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report has been compiled on behalf of Senao Networks, Inc., and their product, *FCC ID: U2M-PCE4551AH,* model number: PCE4551AH, which henceforth is referred to as the EUT (Equipment Under Test.) The EUT is a modular which operates in 5 GHz bands and placed in the host during DFS testing.

1.2 Mechanical Description of EUT

Module:

The Module measures approximately: 52mm (L) x 31mm (W) x 2 mm (H) and weighs approximately 8 g.

The data gathered are from a production sample provided by the manufacturer, serial number: 138305003 assigned by manufacture.

1.3 Objective

This report is prepared on behalf of *Senao Networks, Inc.* in accordance with FCC CFR47 §15.407 (h), and FCC 06-96 Appendix.

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)

FCC 06-96 Appendix "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=8430d44f1f47cf2996124343c704b3678l6b

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(H), FCC 06-96 Standards.

2.2 EUT Exercise Software

EUT testing software version is v1.15.0 provide by customer.

2.3 Local Support Equipment

Manufacturer	Description	Model	Serial No.
Lenovo	Laptop	ThinkPad R60	LV-BB670

2.4 Interface Ports and Cabling

Cable Description	Length (M)	From	To
RJ 45	< 1.0	Laptop	EUT

2.5 Power Supply and Line Filters

Manufacturer	Description	Model	Part Number
PowerDsine	POE Switch-Mode Power Supply	PD-3501G/AC	-
Sunny	Switching Adaptor	STD-1203	STD-1203-FTN-1

2.6 EUT Internal Configurations

Manufacturer	Description	Model	Serial No.
Senao	802.11 ac PCIe Module	PCE4551AH	-

3 Summary of Test Results

The following result table represents the list of measurements required under the CFR47 §47 Part15.407 (h), and FCC 06-96.

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

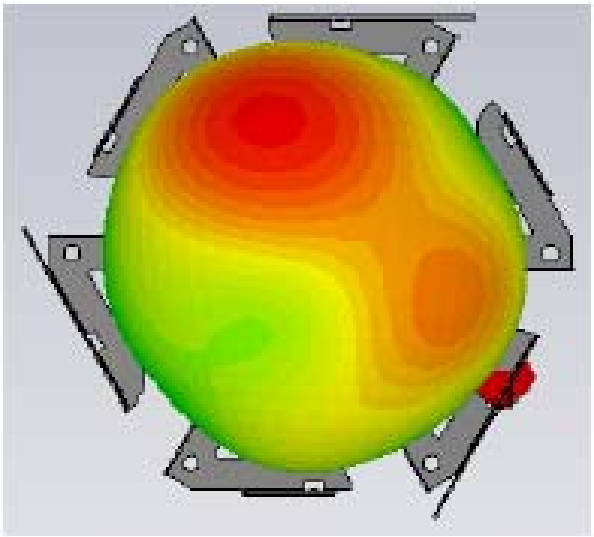
4 EUT Antenna Information

4.1 Antenna Specification

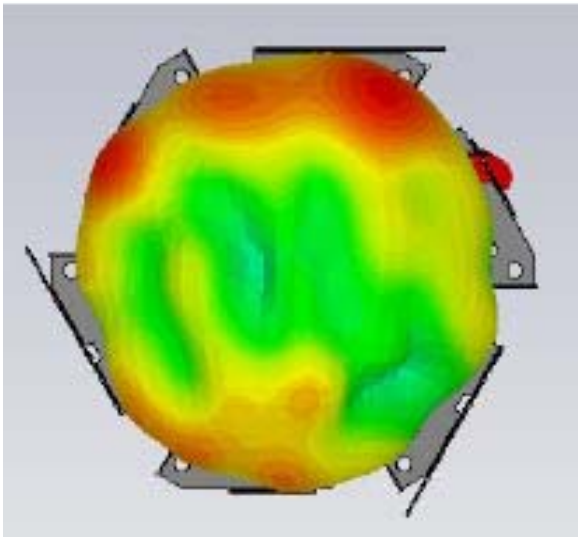
Frequency (GHz)	2.4-2.5	4.90-5.875
Peak Gain (dBi)	3.0-5.0	4.0-6.0
VSWR	2.0:1	2.0:1
Isolation (dB)	-20	-20
Impedance (Ohms)	50	
Power (Watts)	1	
Weight (g)	20	
Connector	IPEX	
Cable length (mm)	L	
Dimension (mm)	100.46 x 90.8 x 9.9	

4.2 Antenna Gain pattern

2.4 GHz



5 GHz



5 Applicable Standards

5.1 DFS Requirement

FCC CFR47 §15.407 (h), and FCC 06-96 Appendix.

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
Uniform Spreading	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	**Client** (Without DFS)	**Client** (With DFS)
DFS Detection Threshold	Yes	Not Required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 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.

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 80% 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 1 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
1	1	1428	18	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

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

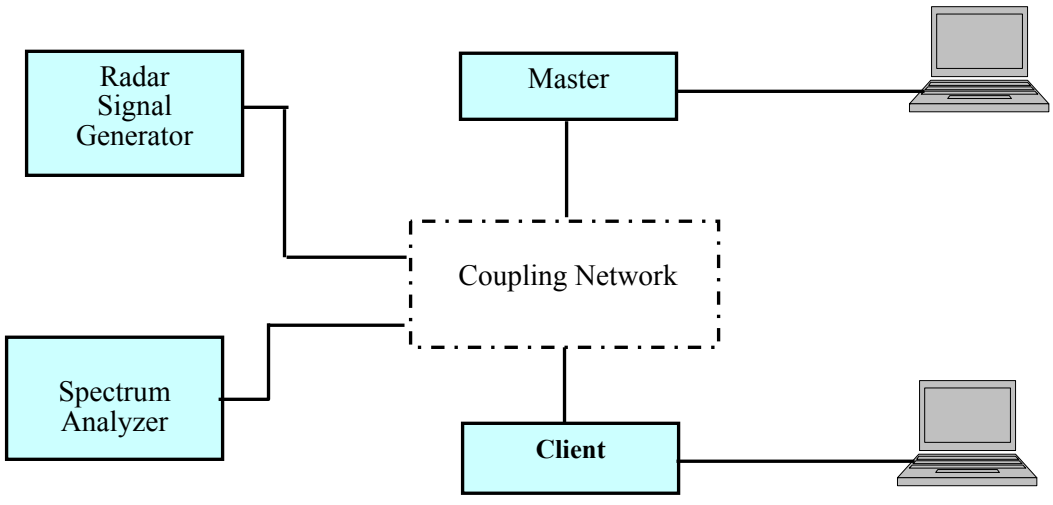
Table 7: Frequency Hopping Radar Test Signal

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

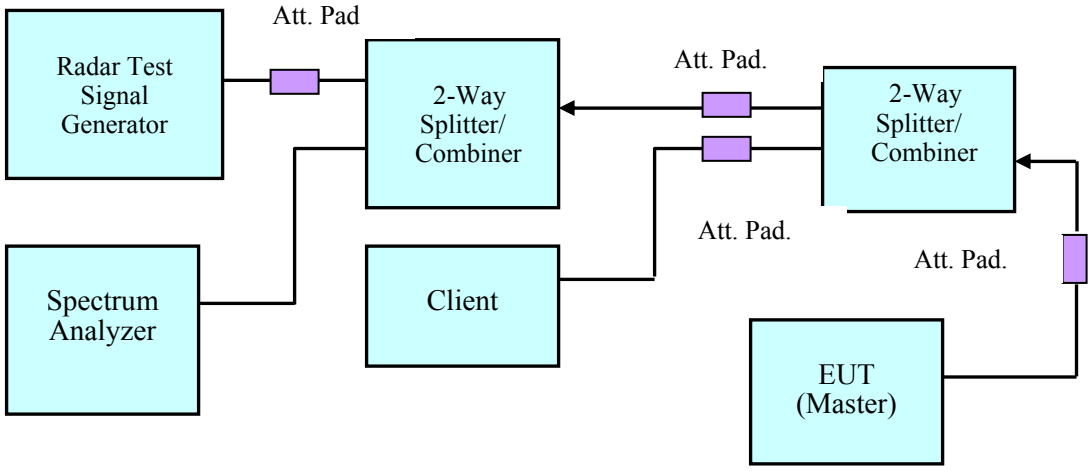
5.2 DFS Measurement System

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

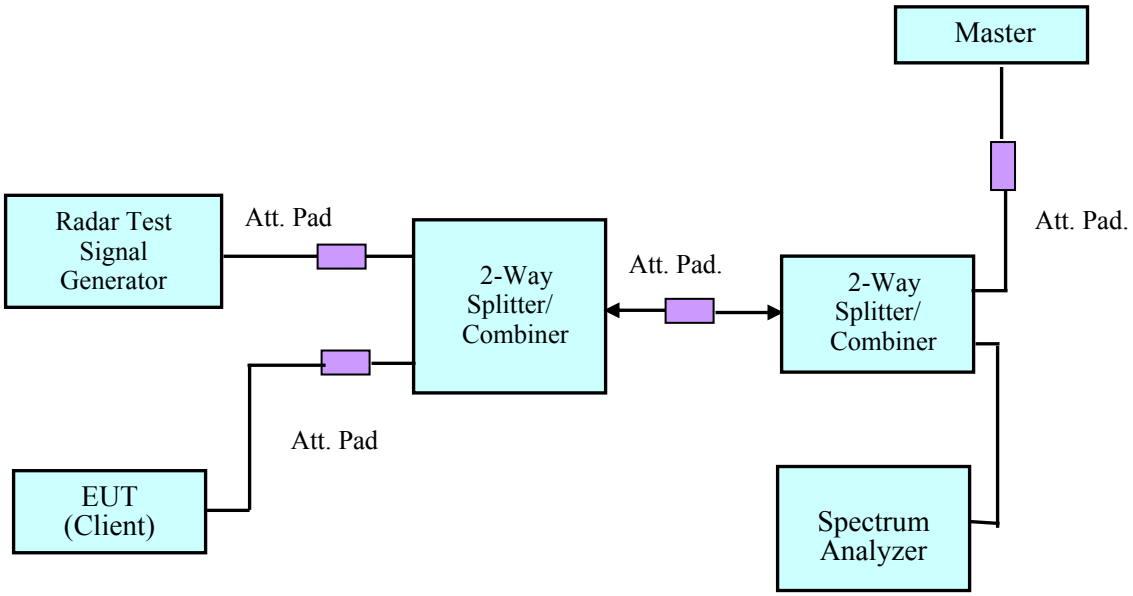
5.3 System Block Diagram



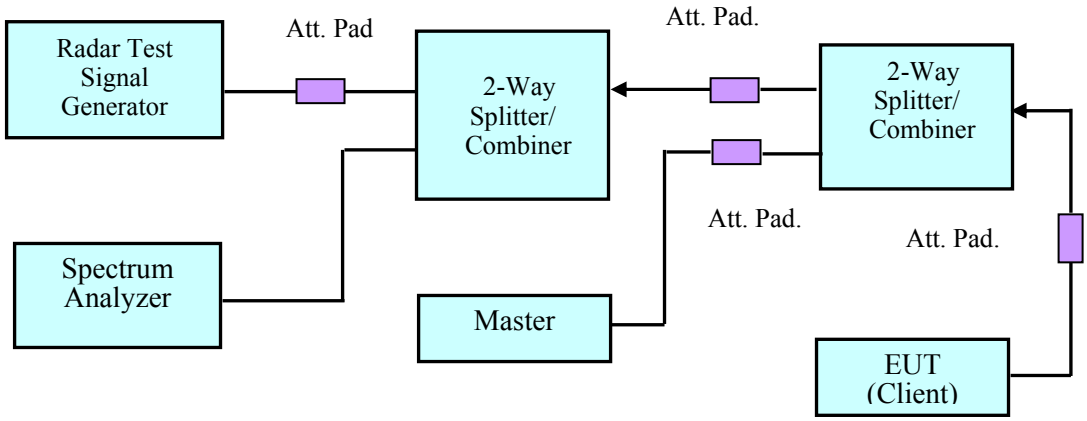
5.4 Conducted Method



Setup for Master with injection at the Master

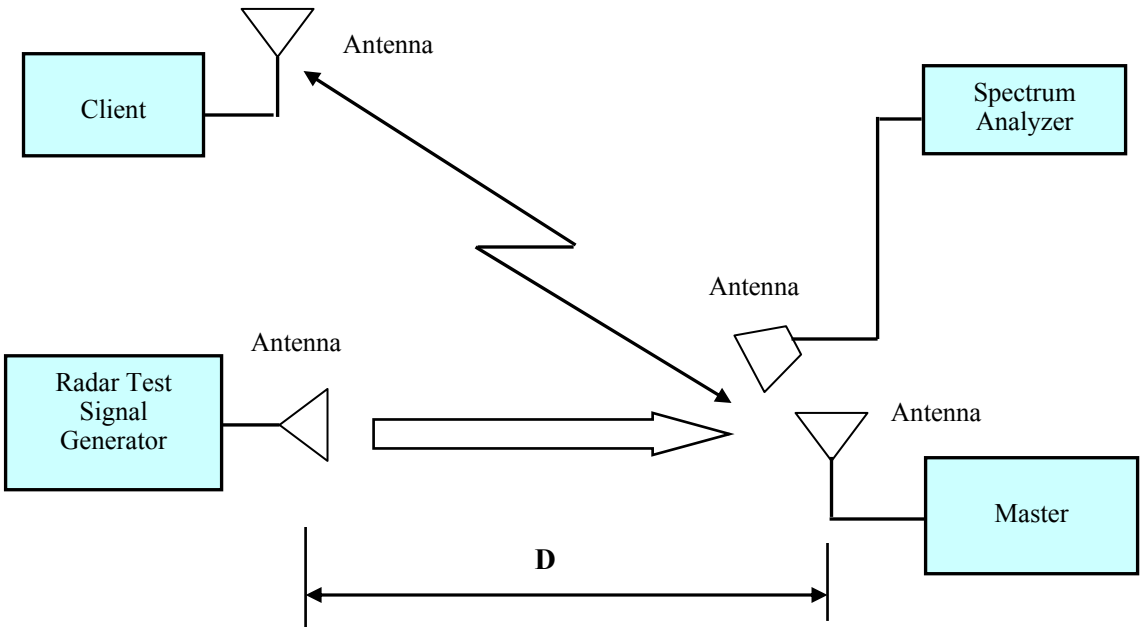


Setup for Client with injection at the Master



Setup for Client with injection at the Client

5.5 Radiated Method



5.6 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.

6 Test Results

6.1 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.

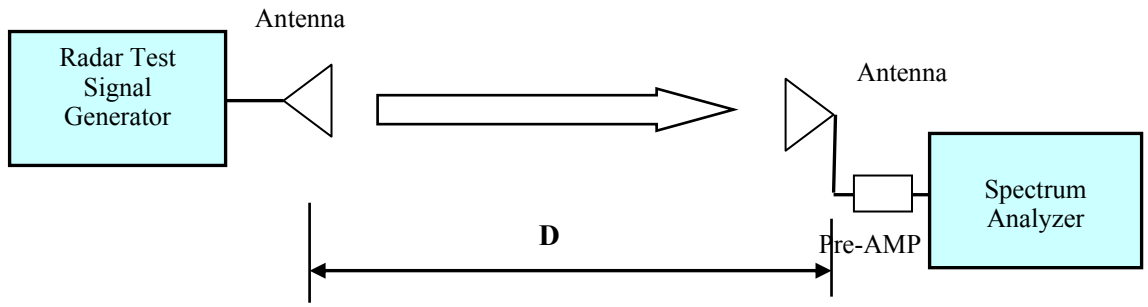
The EUT will not work in 5600-5650 MHz band.

6.2 Test Equipment List and Details

Manufacturer	Equipment Description	Model Number	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	2013-10-16
A.R.A.	Antenna Horn	DRG-118/A	1132	2014-01-29
EMCO	Antenna Horn	3115	9511-4627	2013-10-17
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
HP	Amplifier	8449B	3147A00400	2014-02-04

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

6.3 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

6.4 Test Environmental Conditions

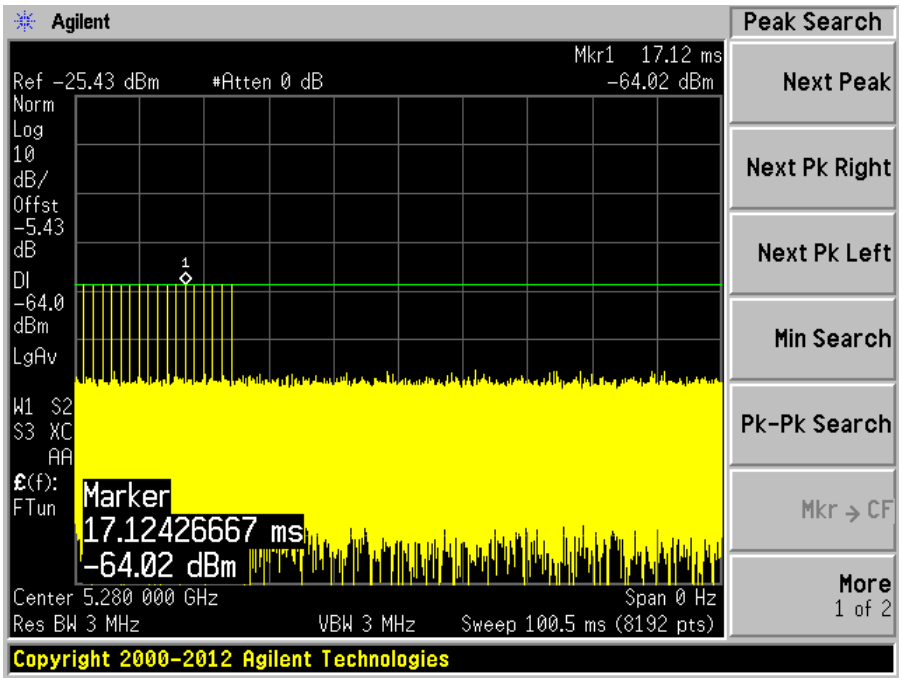
Temperature:	21-23 °C
Relative Humidity:	40-46 %
ATM Pressure:	101-102 kPa

Testing performed by Chen Ge on 2014-07-09 to 2014-07-10 at DFS testing site.

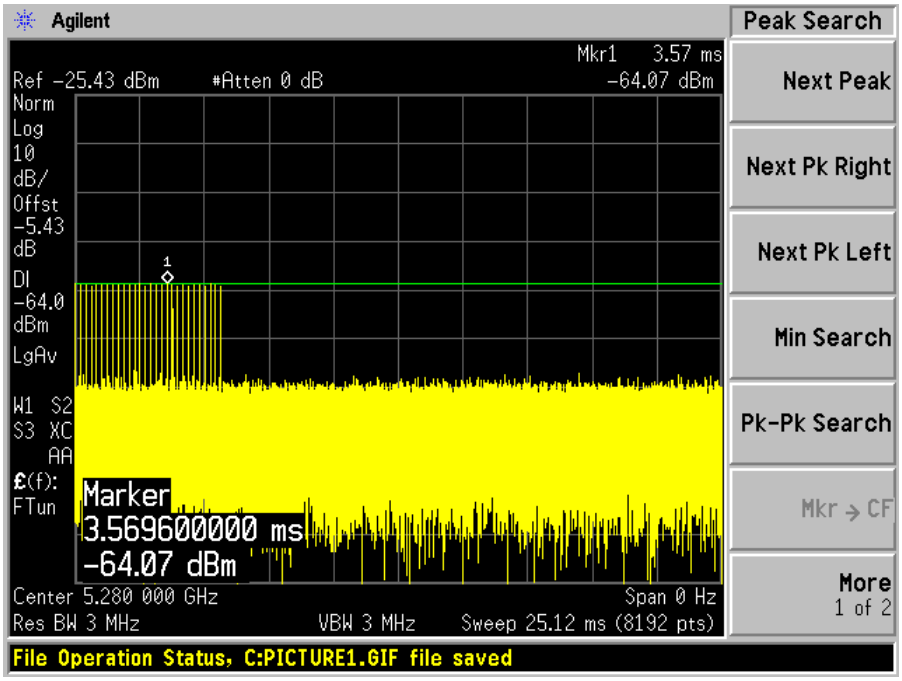
Plots of Radar Waveforms

5280 MHz

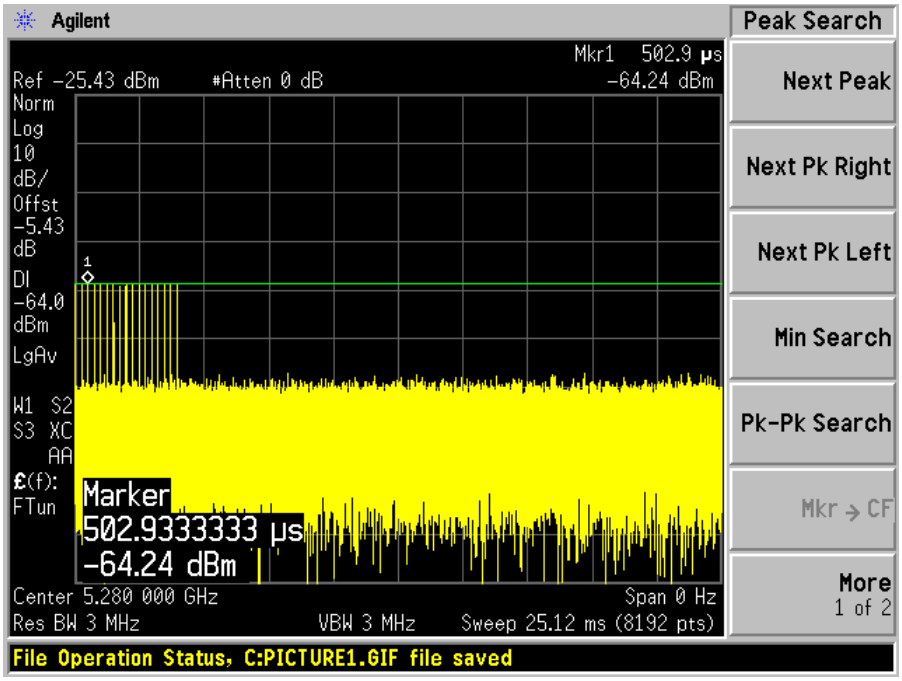
Radar Type 1



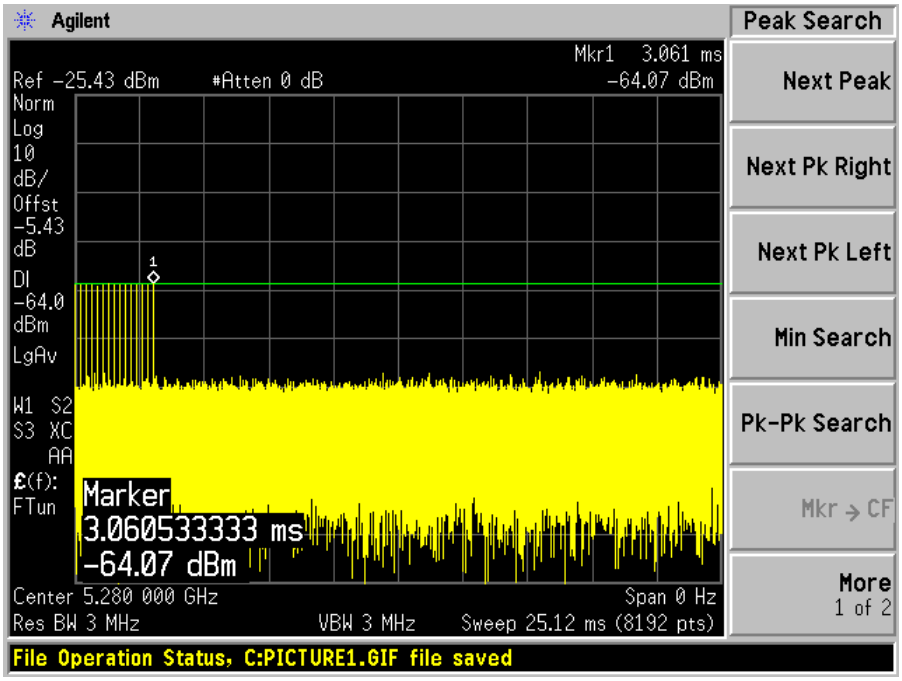
Radar Type 2



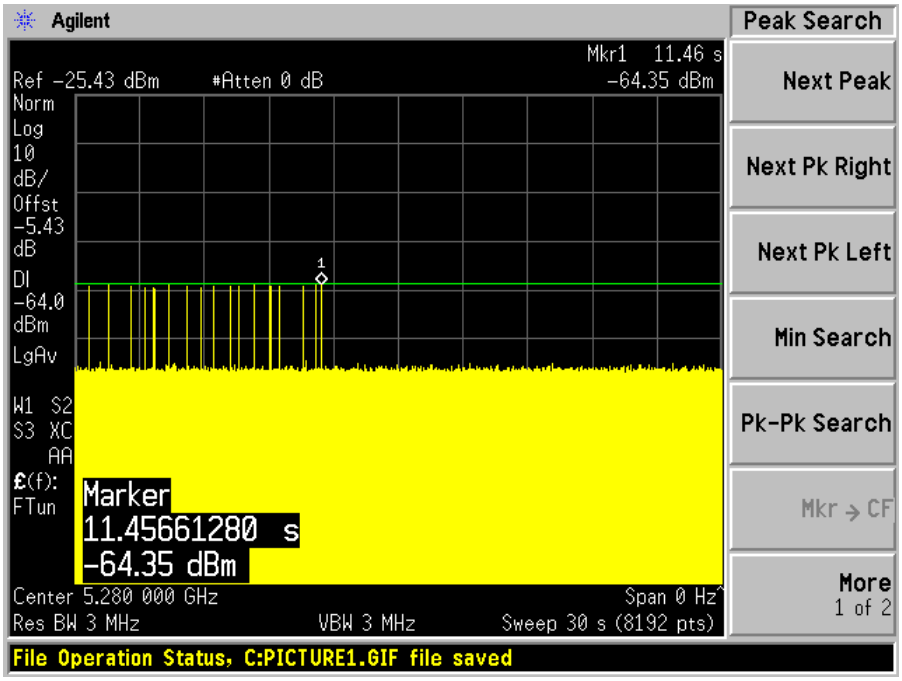
Radar Type 3



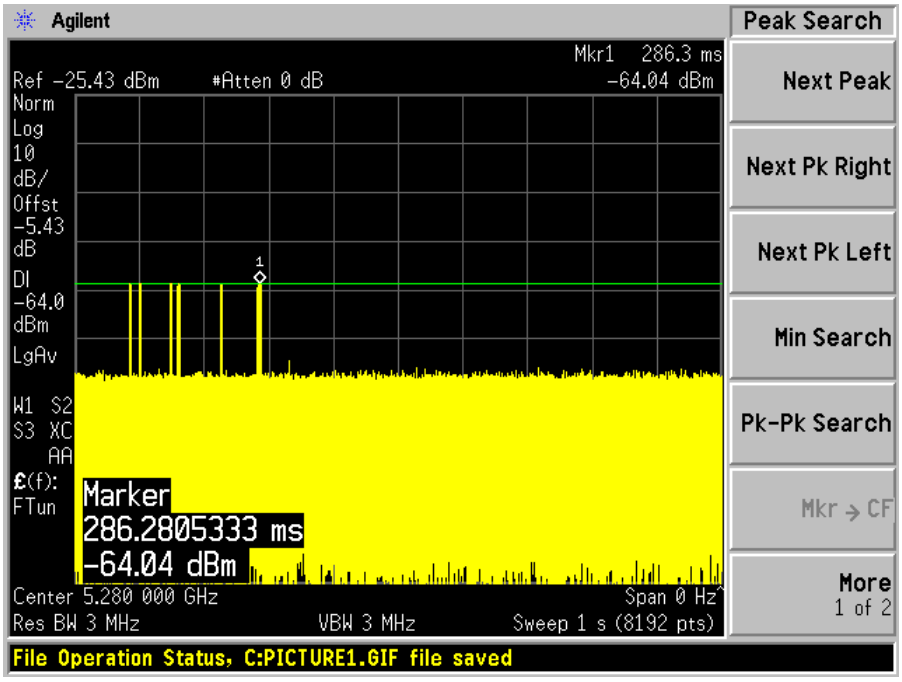
Radar Type 4



Radar Type 5

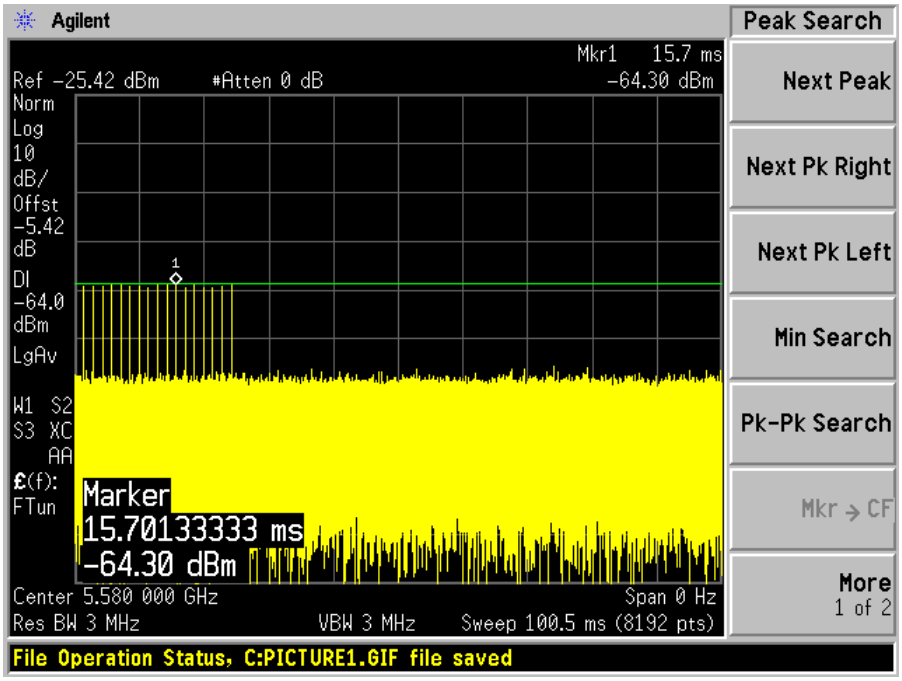


Radar Type 6

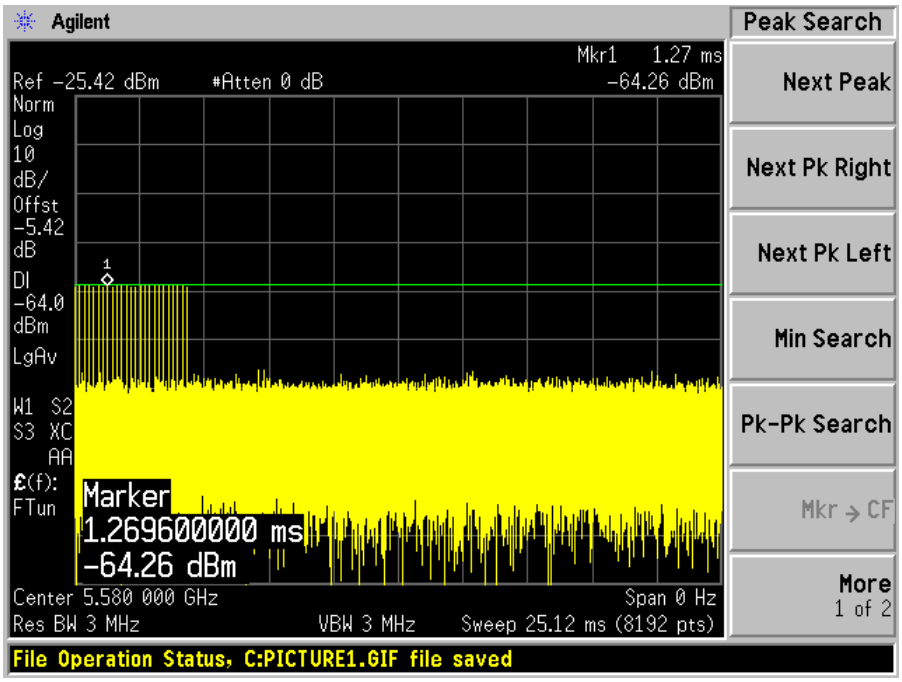


5580 MHz

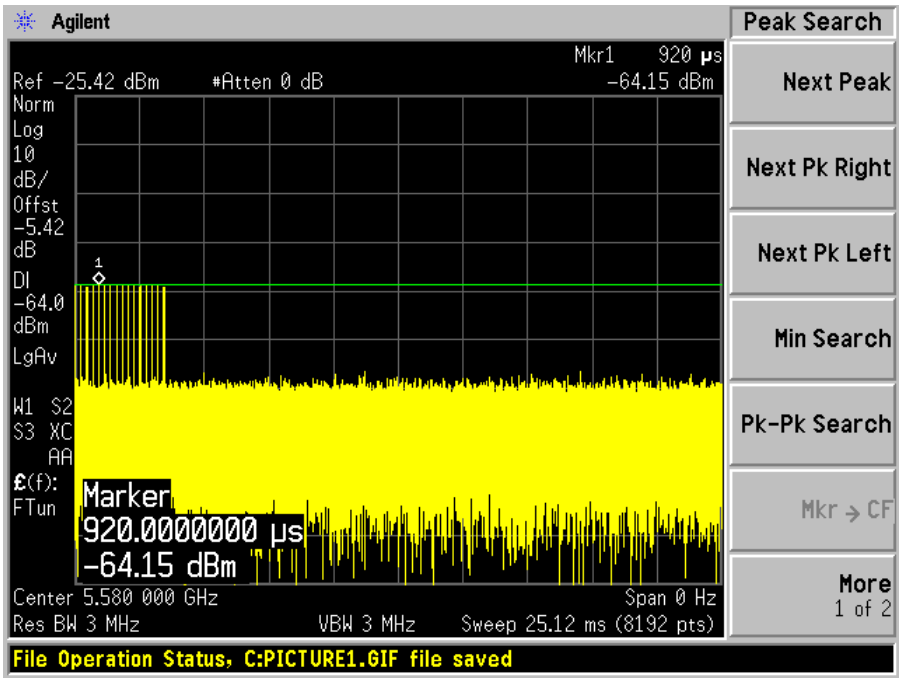
Radar Type 1



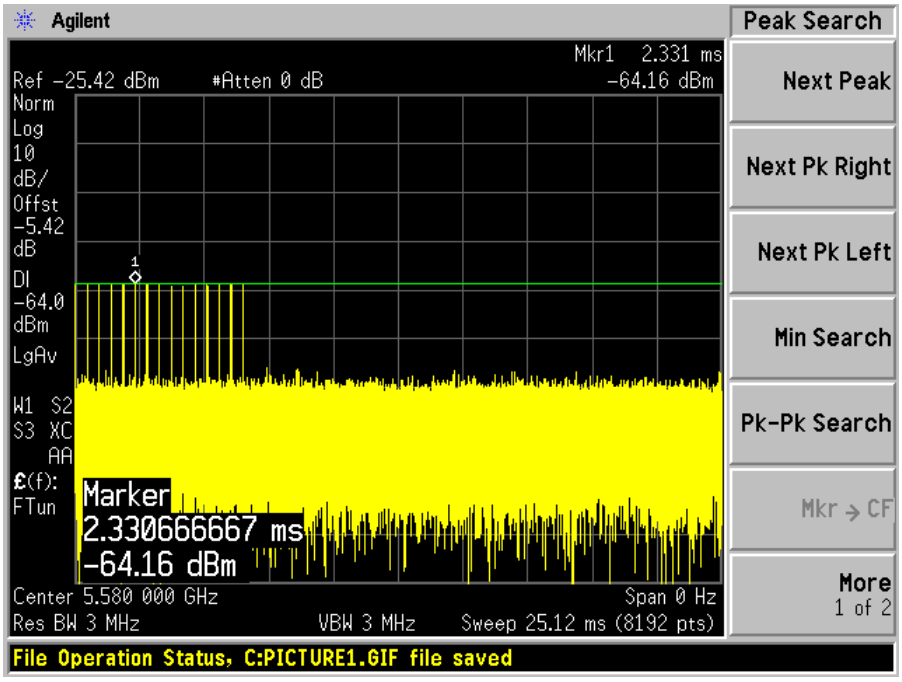
Radar Type 2



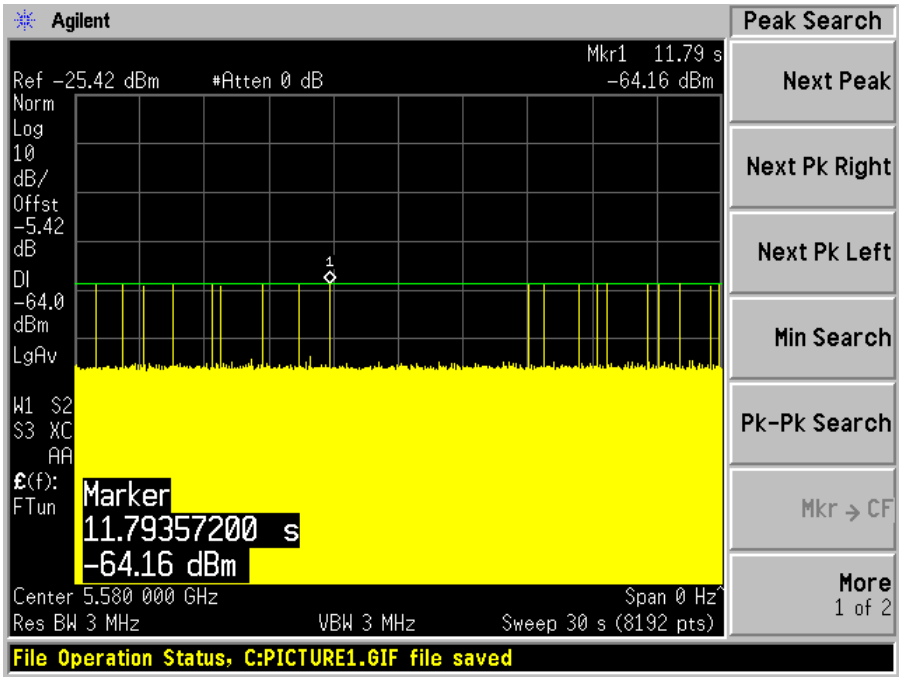
Radar Type 3



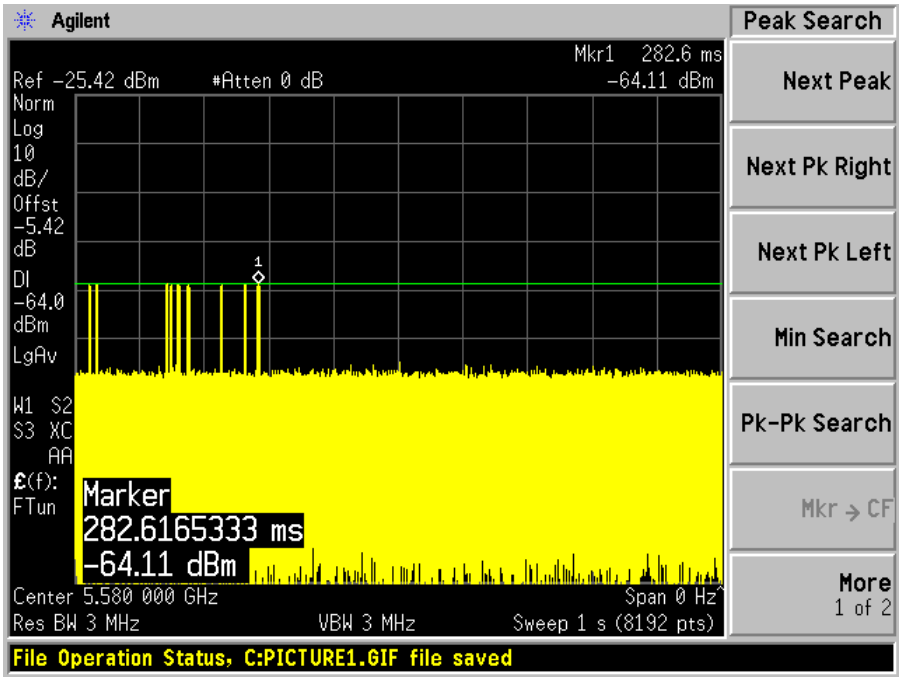
Radar Type 4



Radar Type 5



Radar Type 6



7 Channel Availability Check Time (CAC)

7.1 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)
123

5290 MHz and 5530 MHz Bandwidth 80 MHz

EUT initial Power-up cycle (Second)
125

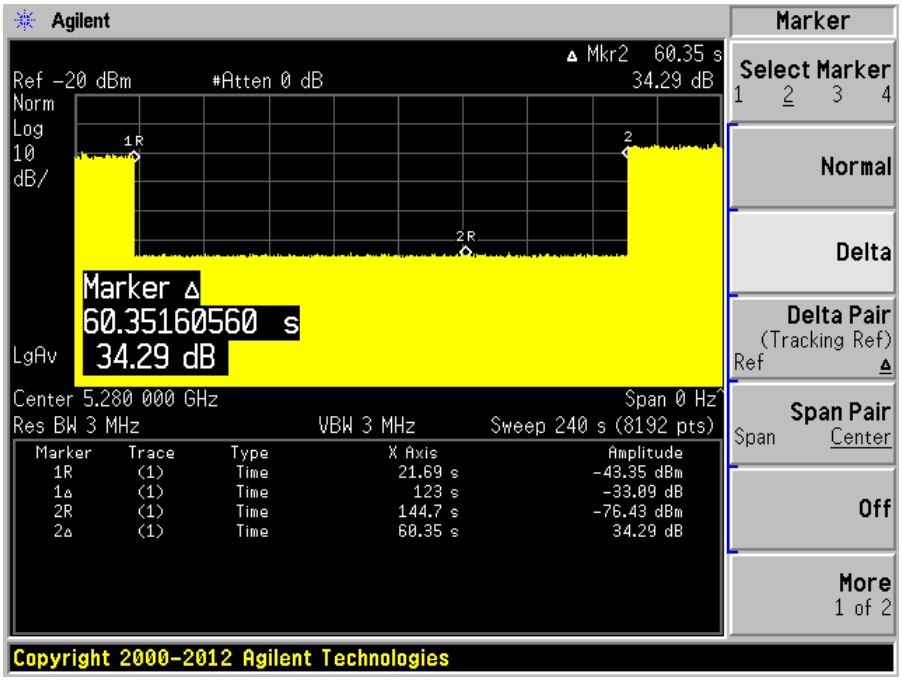
Results:

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.

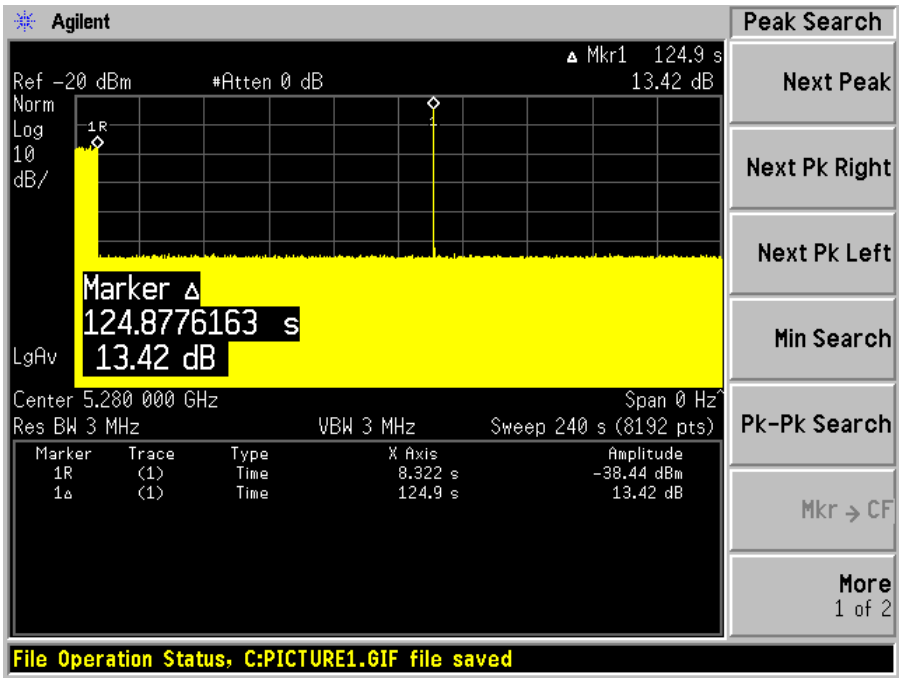
5280 MHz Bandwidth 20 MHz

Plot of without Radar signal applied



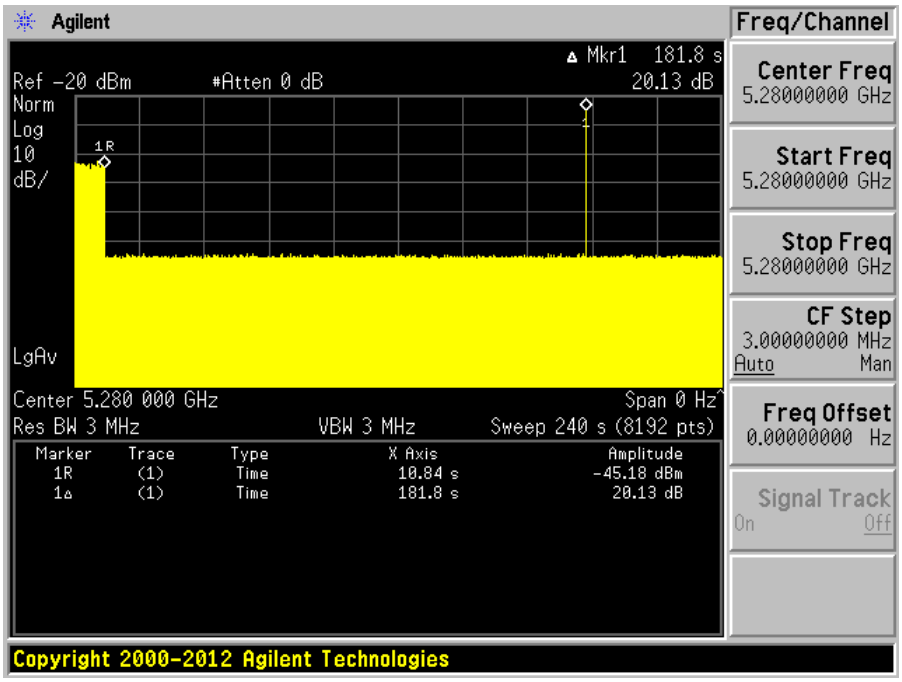
Note: The power-up cycle is 123 seconds.

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



No transmissions found after radar signal applied.

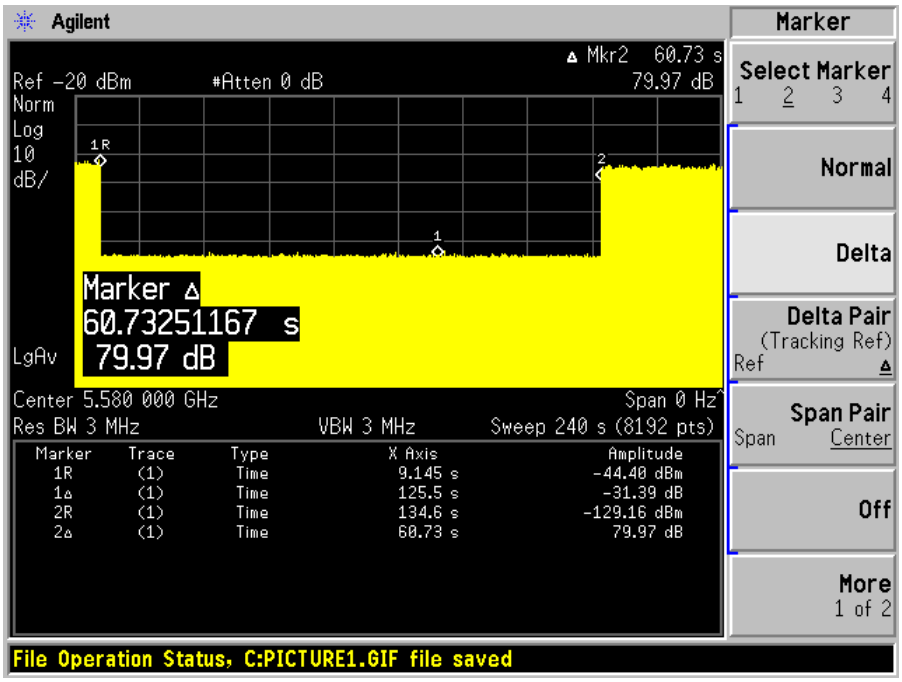
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

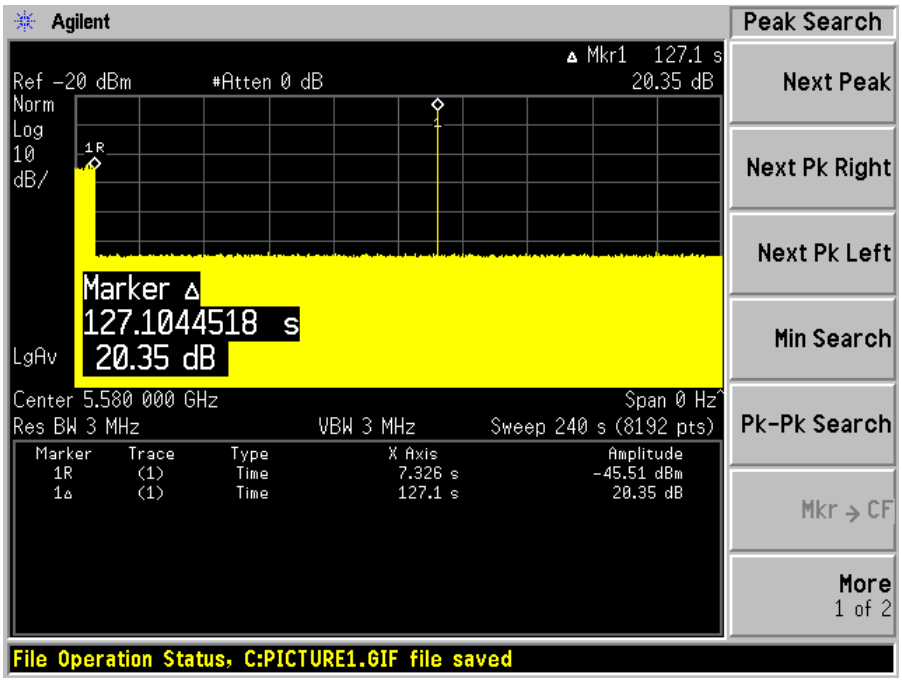
5580 MHz Bandwidth 20 MHz

Plot of without Radar signal applied



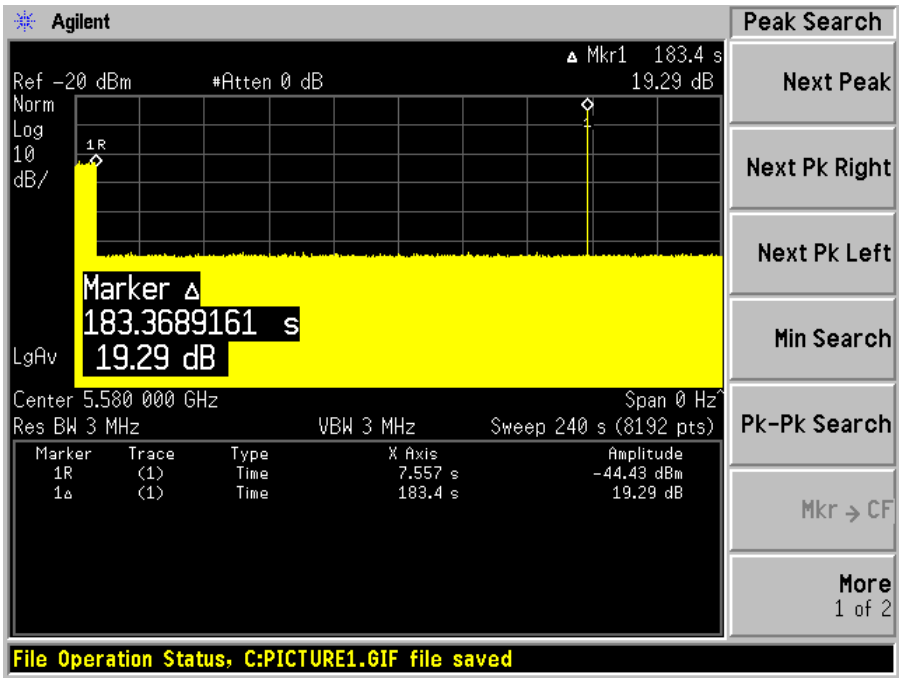
Note: The power-up cycle is 125.5 seconds.

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



No transmissions found after radar signal applied.

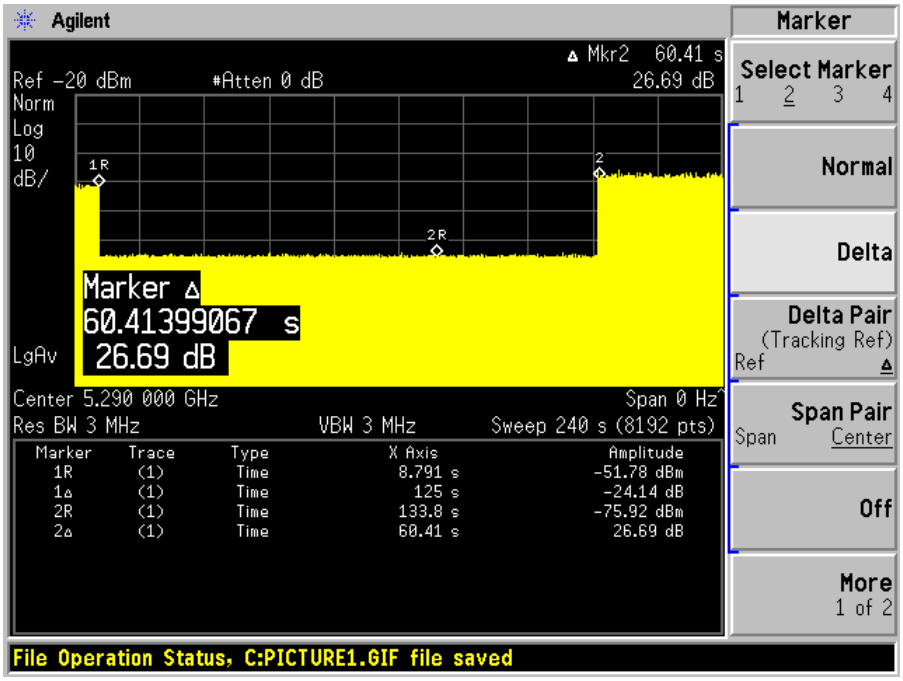
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

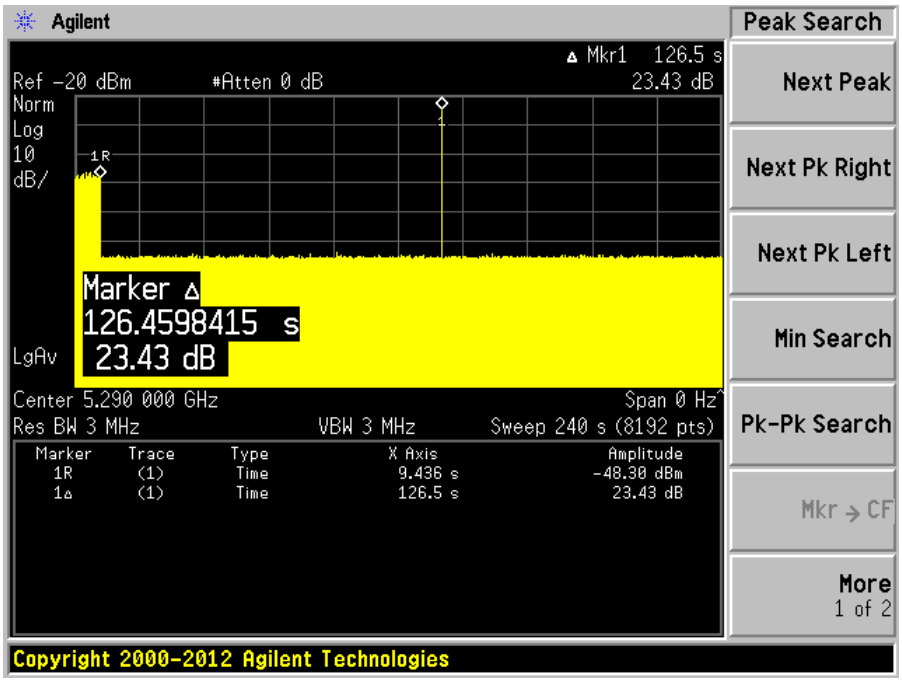
5290 MHz Bandwidth 80 MHz

Plot of without Radar signal applied



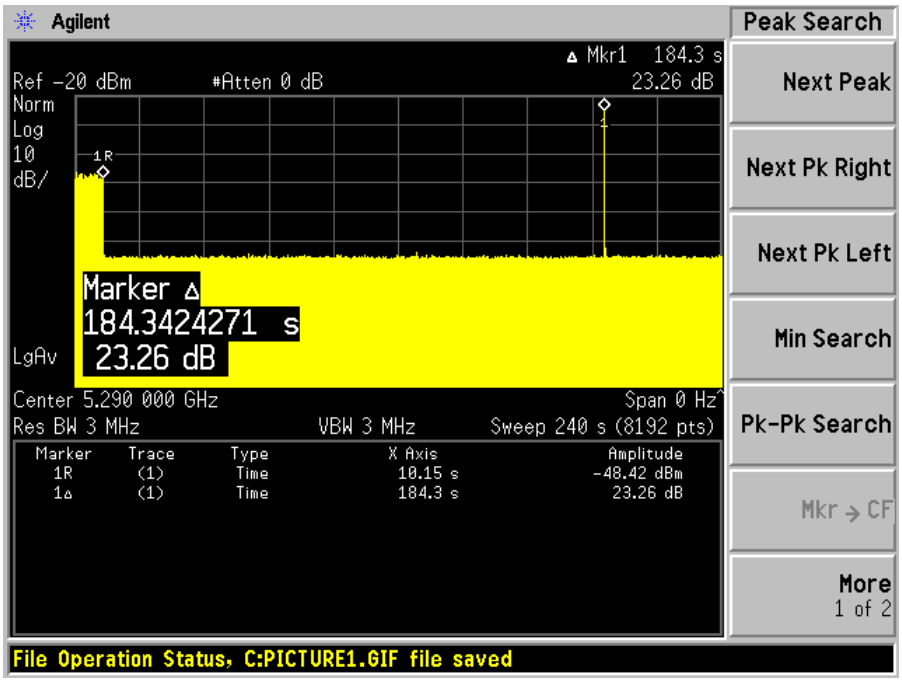
Note: The power-up cycle is 125 seconds.

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



No transmissions found after radar signal applied.

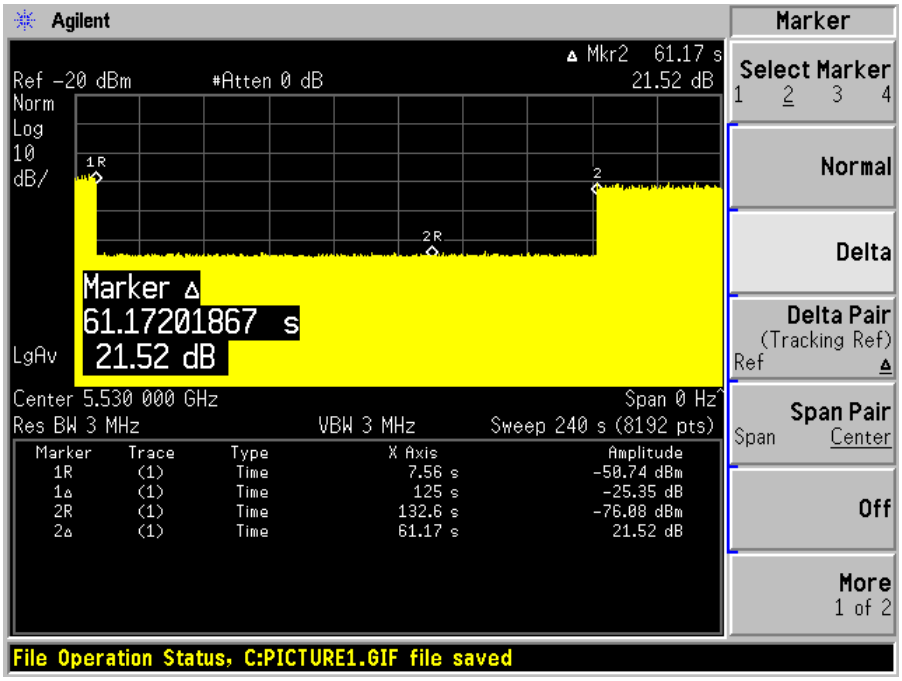
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

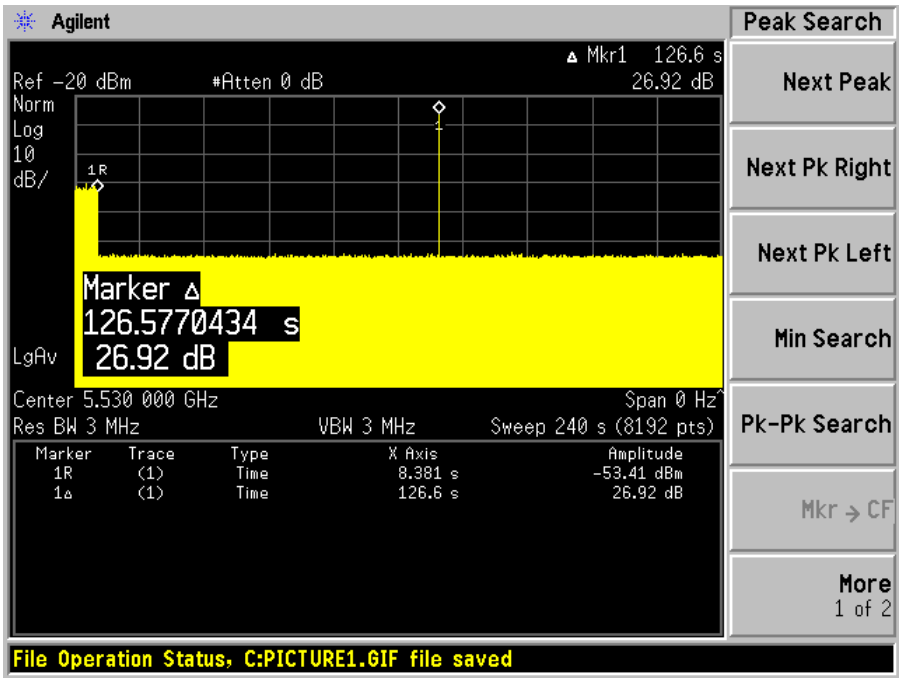
5530 MHz Bandwidth 80 MHz

Plot of without Radar signal applied



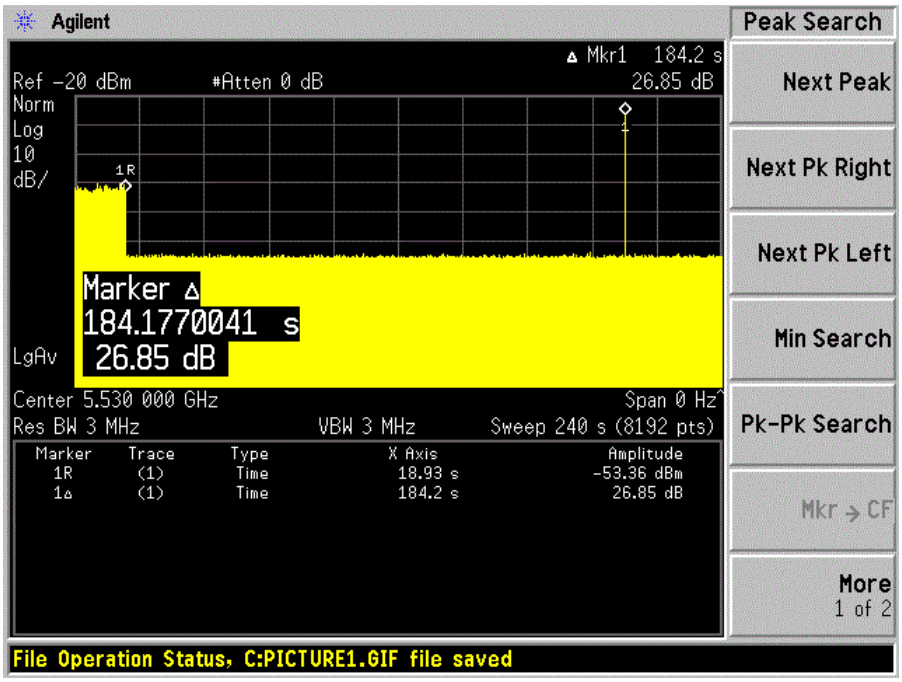
Note: The power-up cycle is 125 seconds.

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.

8 Channel Move Time and Channel Closing Transmission Time

8.1 Test Procedure

Perform one of the type1 to type 4 short pulse radar waveform, BACL use type 1 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)

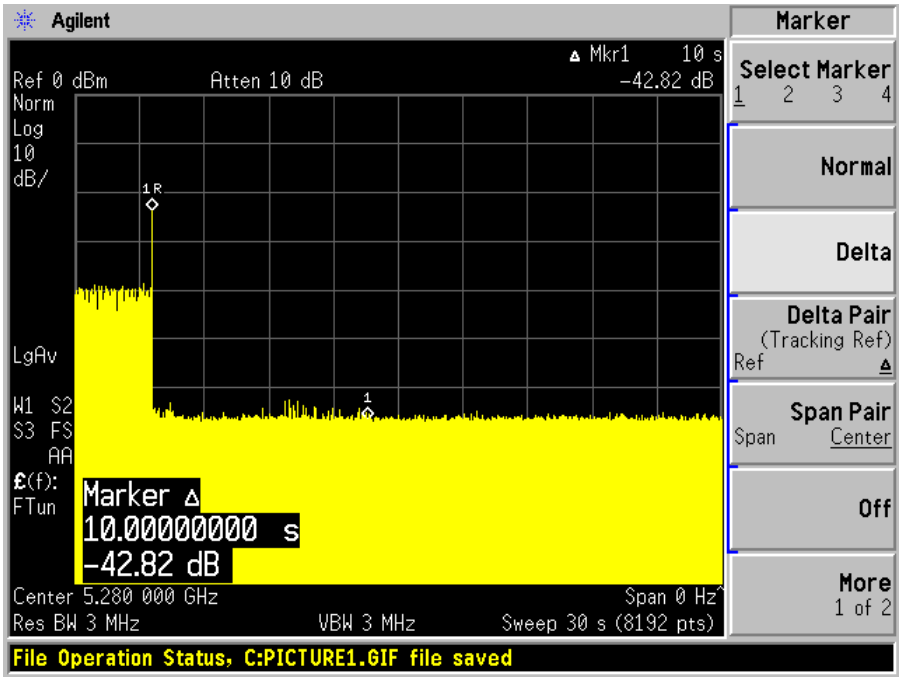
8.2 Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5280	20	Type 1	Compliant
		Type 5	Compliant
5580	20	Type 1	Compliant
		Type 5	Compliant
5290	80	Type 1	Compliant
		Type 5	Compliant
5530	80	Type 1	Compliant
		Type 5	Compliant

Please refer to the following tables and plots.

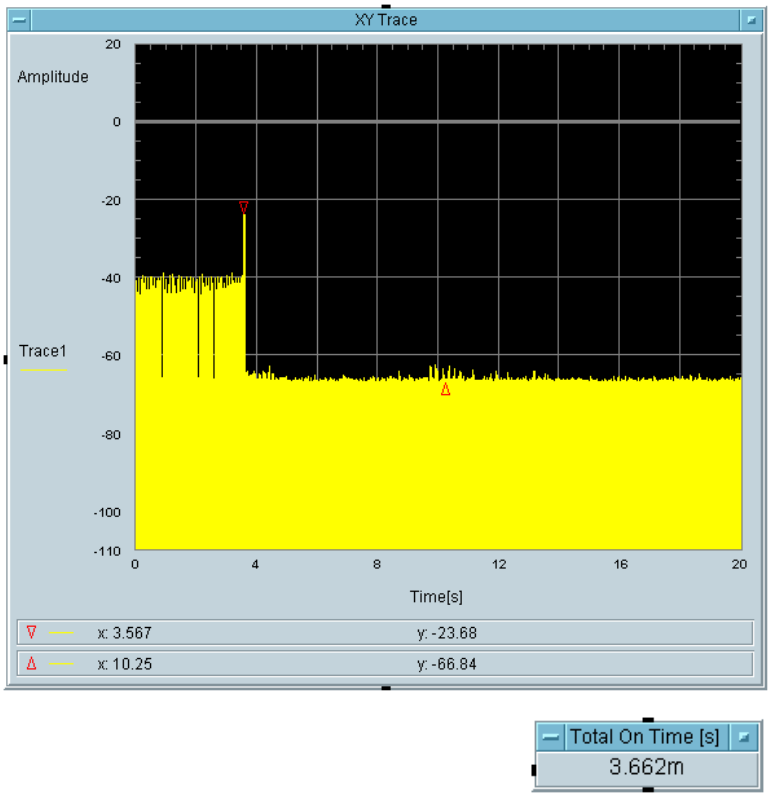
5280 MHz Bandwidth 20 MHz

Type 1 radar channel move time result:



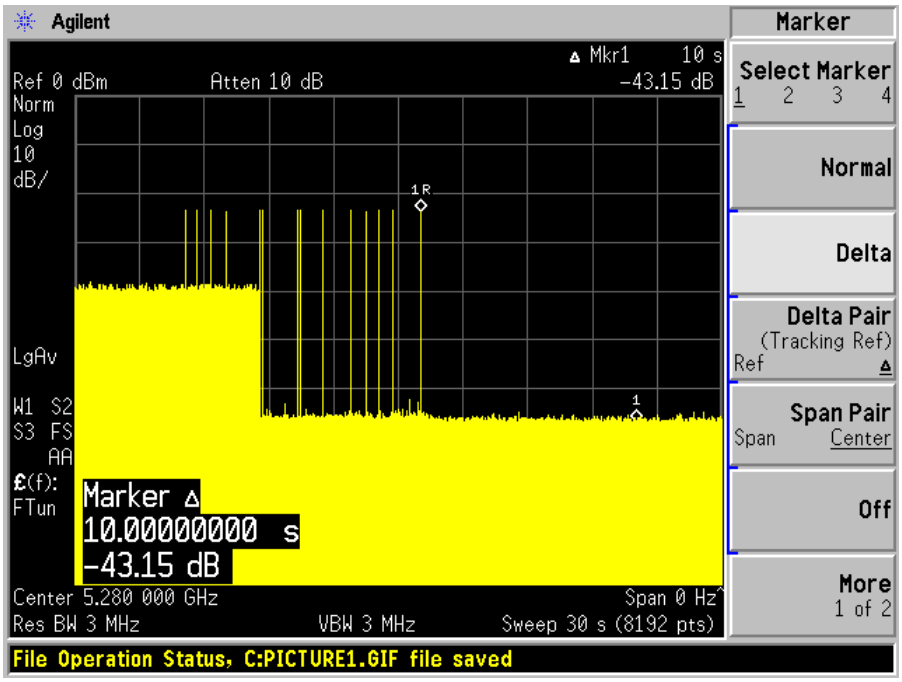
Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
3.662	60	56.338



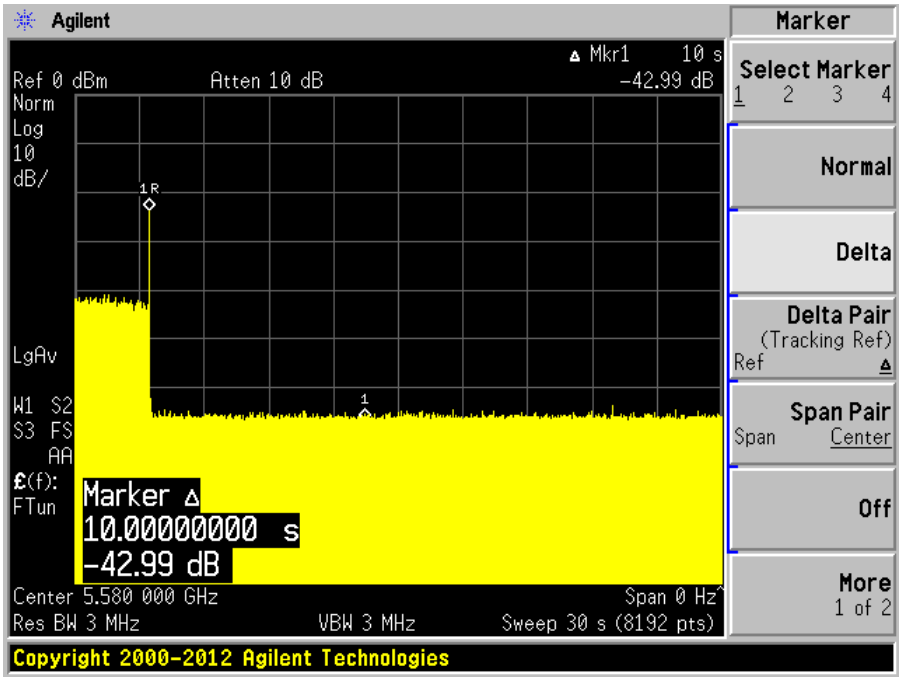
Type 5 radar channel move time result:

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



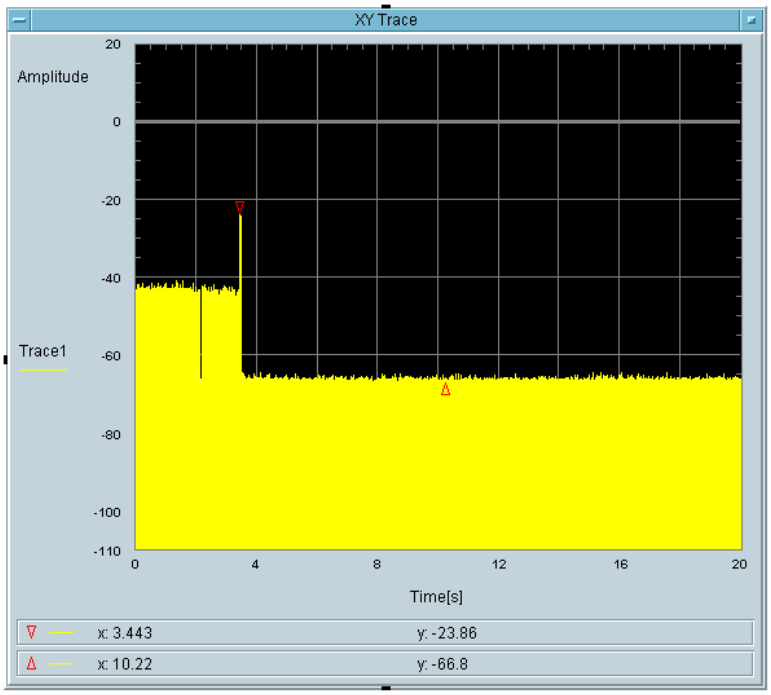
5580 MHz Bandwidth 20 MHz

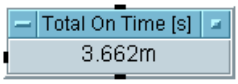
Type 1 radar channel move time result:



Type1 radar channel closing transmission time result:

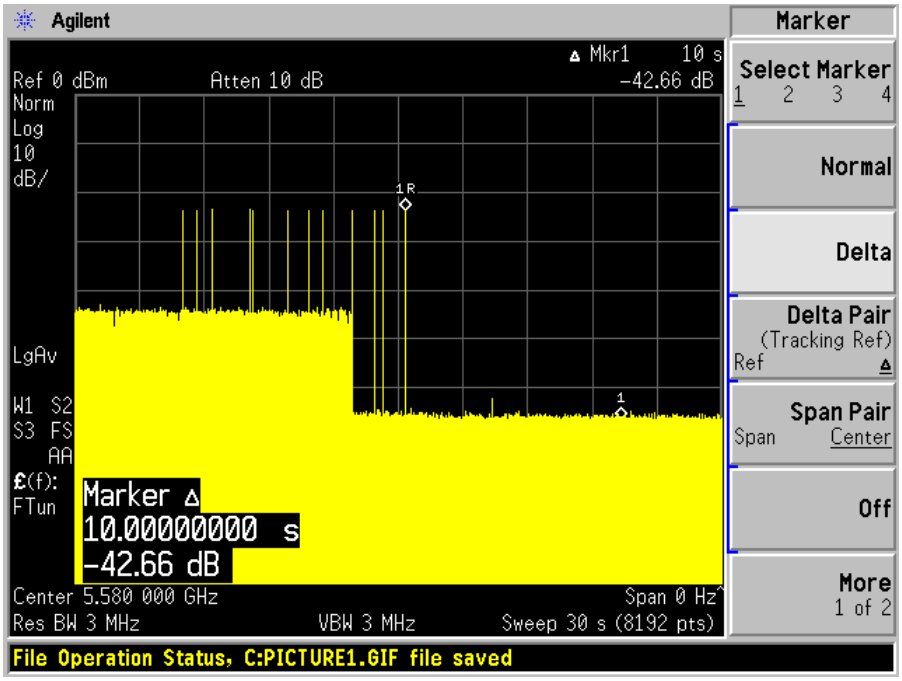
Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
3.662	60	56.338





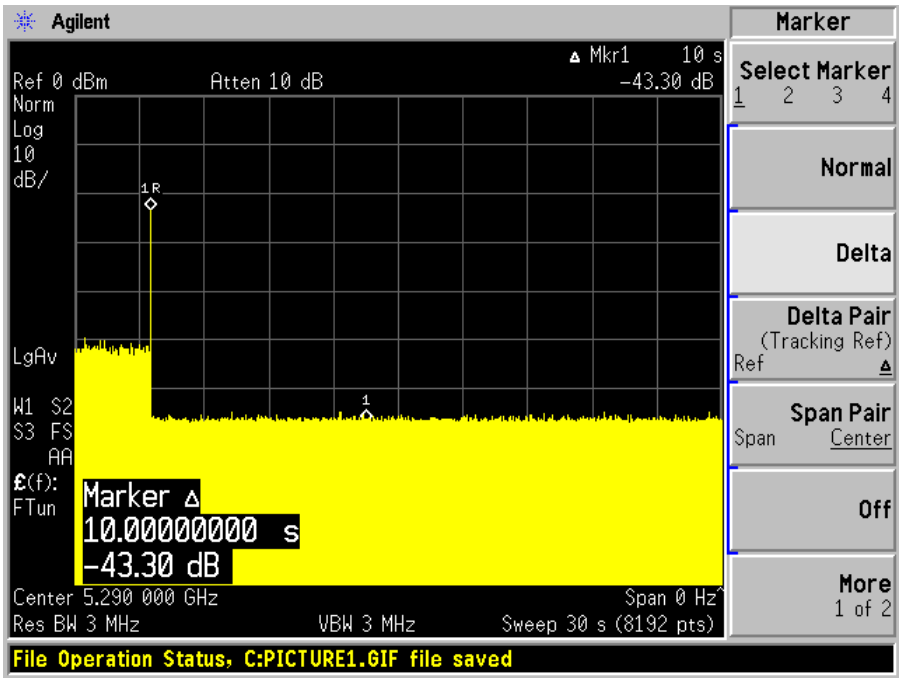
Type 5 radar channel move time result:

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



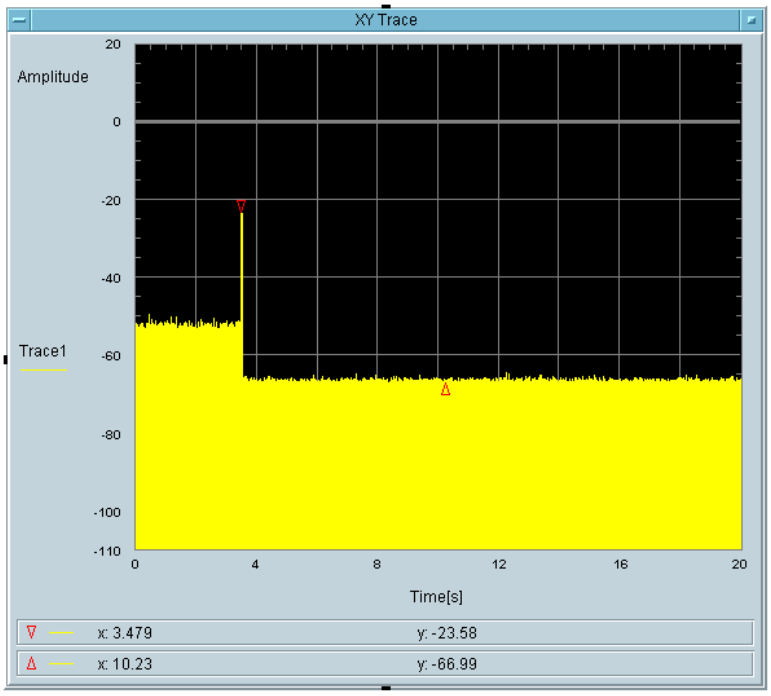
5290 MHz Bandwidth 80 MHz

Type 1 radar channel move time result:



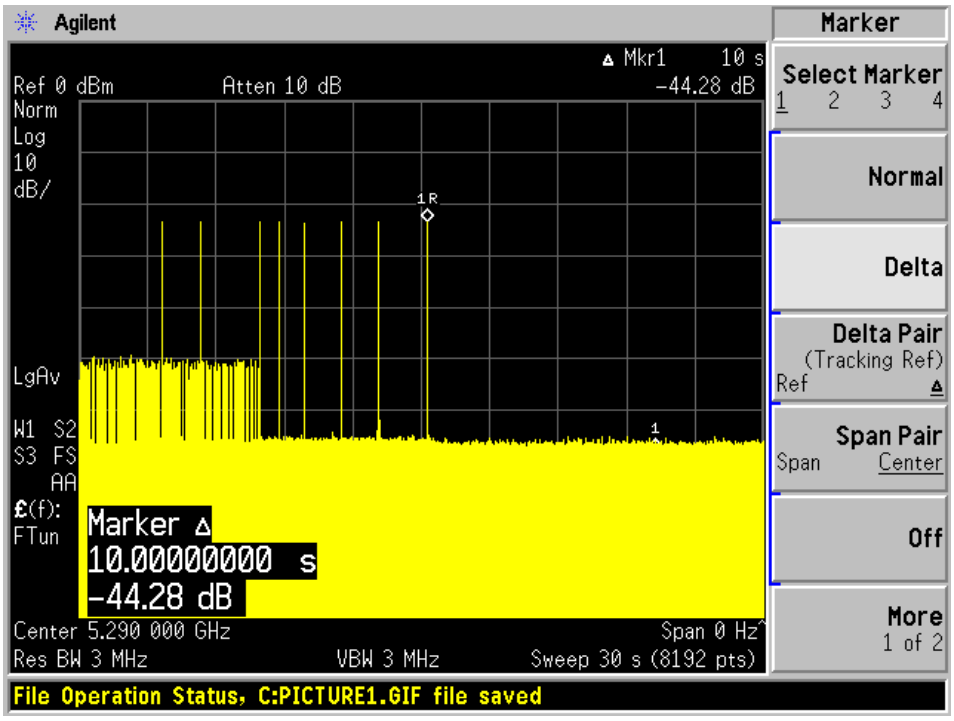
Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
3.662	60	56.338



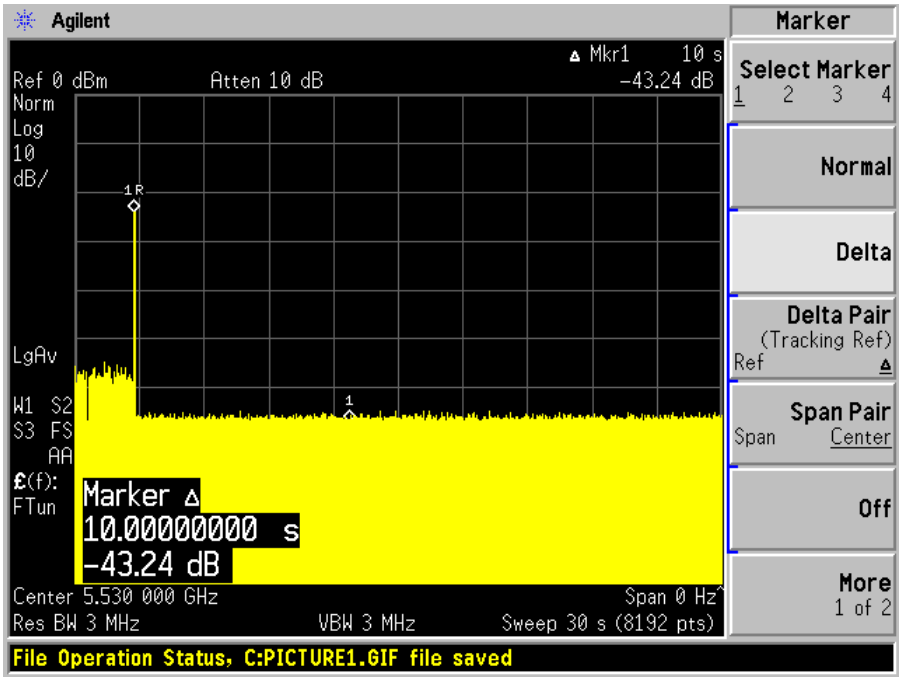
Type 5 radar channel move time result:

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



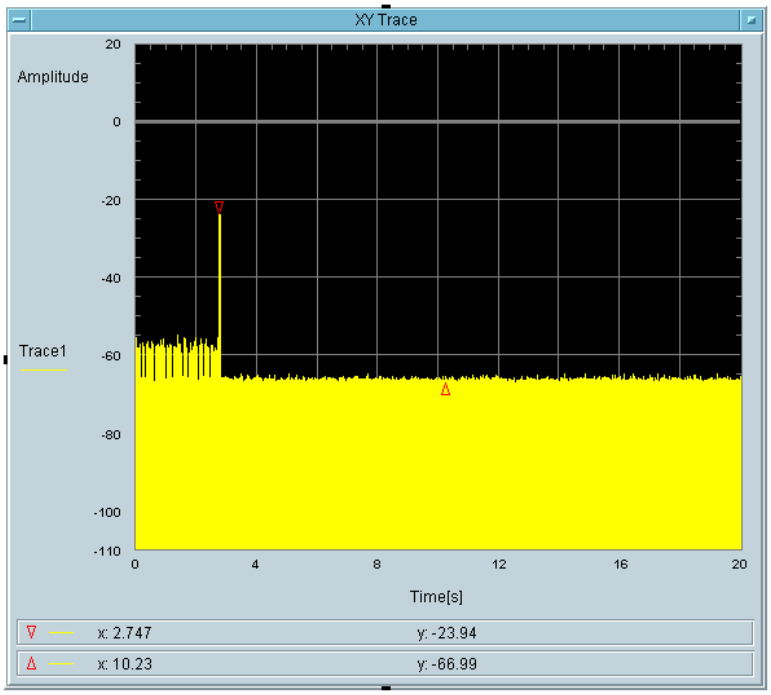
5530 MHz Bandwidth 80 MHz

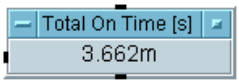
Type 1 radar channel move time result:



Type1 radar channel closing transmission time result:

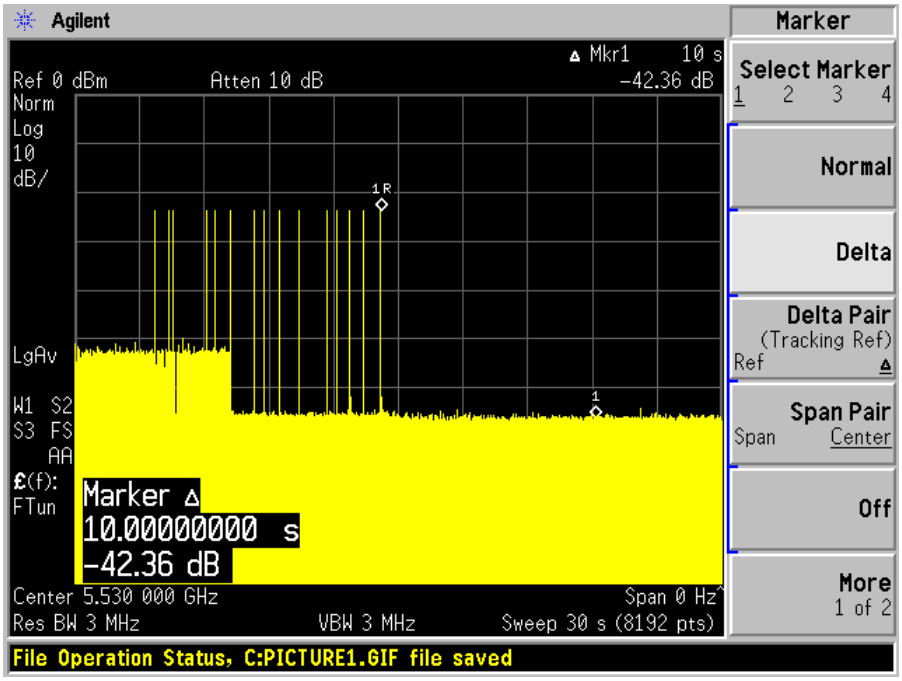
Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
3.662	60	56.338





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.



9 Non-Occupancy Period

9.1 Test Procedure

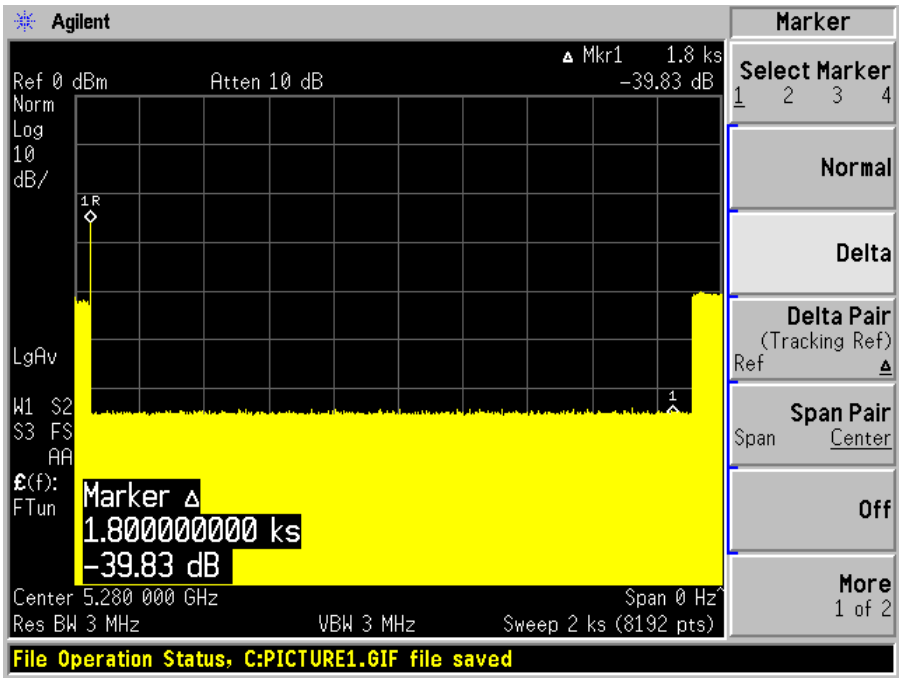
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

9.2 Test Results

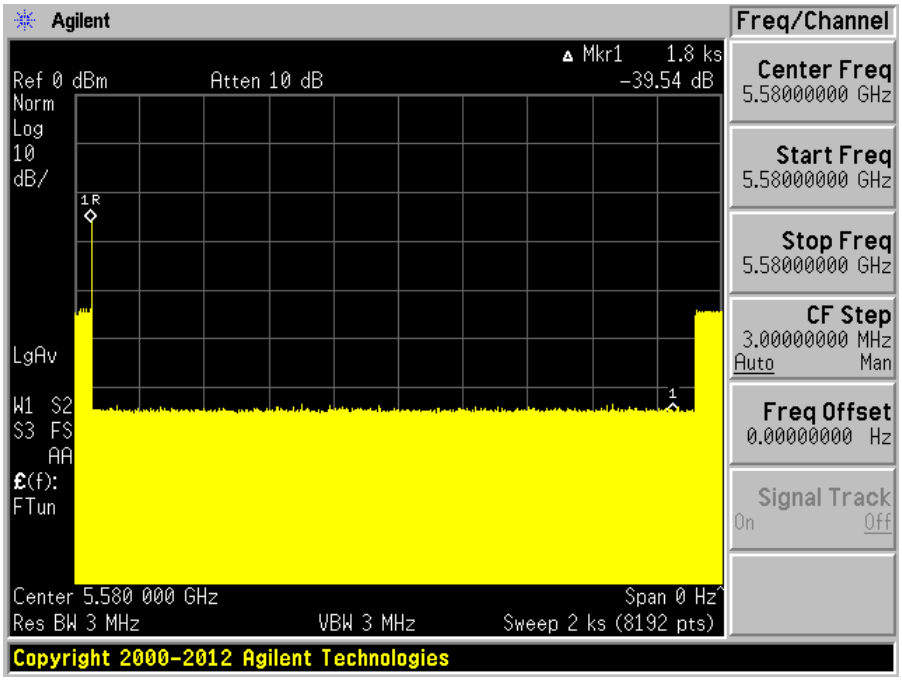
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5280	20	No transmission within 30 minutes
5580	20	No transmission within 30 minutes
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

Please refer to the following plots.

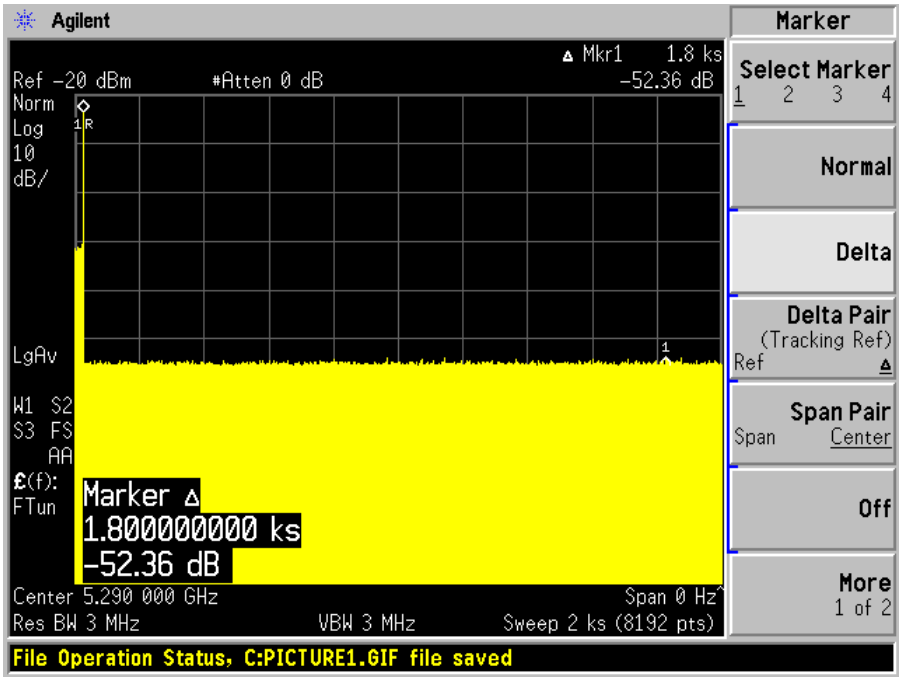
5280 MHz Bandwidth 20 MHz



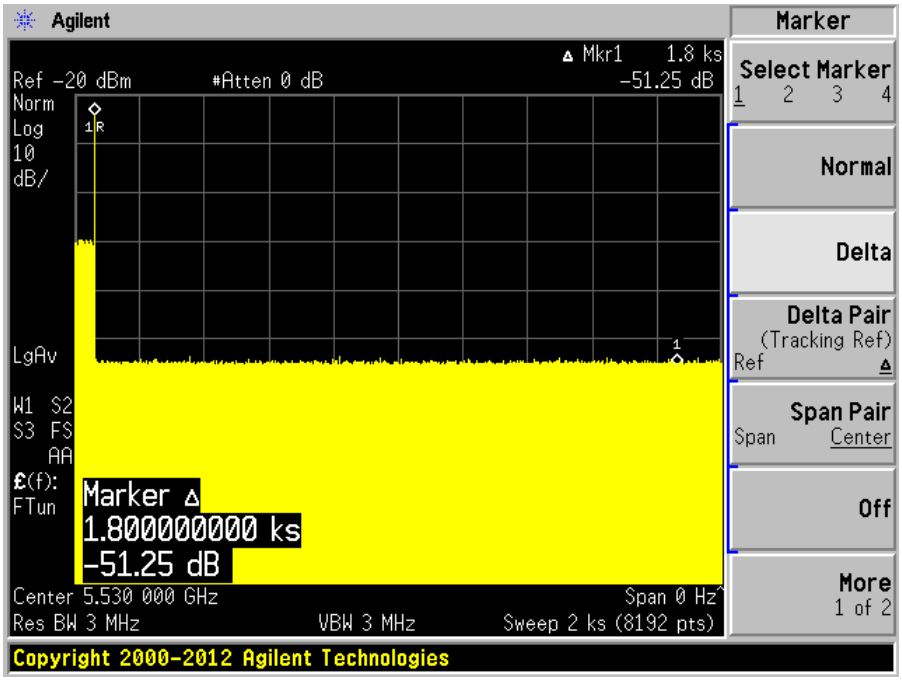
5580 MHz Bandwidth 20 MHz



5290 MHz Bandwidth 80 MHz



5530 MHz Bandwidth 80 MHz



10 Radar Detection Bandwidth & Radar Detection Performance Check

10.1 Detection Bandwidth

Procedure:

Performed with any one of the short pulse radar waveforms (type 1, 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 1 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 - 1 MHz, repeat the process, this time decrementing the radar frequency by 1 MHz

F_L is the lowest frequency at which detection was 80% or better
F_H is the highest frequency at which detection was 80% 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	80%	Compliance
5580	5570	5590	20	80%	Compliance
5290	5250	5330	80	80%	Compliance
5530	5490	5570	80	80%	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	
5270(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5271	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5273	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5276	1	1	1	1	1	1	1	1	1	1	100 %
5277	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5279	1	1	1	1	1	1	1	1	1	1	100 %
5280(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5281	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5283	1	1	1	1	1	1	1	1	1	1	100 %
5284	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5287	1	1	1	1	1	1	1	1	1	1	100 %
5288	1	1	1	1	1	1	1	1	1	1	100 %
5289	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ = 5290-5270 = 20 MHz											
EUT 99% BW = 18.015 MHz; 18.015 * 80% = 14.412 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	100 %
5570(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5571	1	1	1	1	1	1	1	1	1	1	100 %
5572	1	1	1	1	1	1	1	1	1	1	100 %
5573	1	1	1	1	1	1	1	1	1	1	100 %
5574	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5576	1	1	1	1	1	1	1	1	1	1	100 %
5577	1	1	1	1	1	1	1	1	1	1	100 %
5578	1	1	1	1	1	1	1	1	1	1	100 %
5579	1	1	1	1	1	1	1	1	1	1	100 %
5580 (Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5581	1	1	1	1	1	1	1	1	1	1	100 %
5582	1	1	1	1	1	1	1	1	1	1	100 %
5583	1	1	1	1	1	1	1	1	1	1	100 %
5584	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5586	1	1	1	1	1	1	1	1	1	1	100 %
5587	1	1	1	1	1	1	1	1	1	1	100 %
5588	1	1	1	1	1	1	1	1	1	1	100 %
5589	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% BW = 17.977 MHz; 17.977 * 80%= 14.381 **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 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5258	1	1	1	1	1	1	1	1	1	1	100 %
5262	1	1	1	1	1	1	1	1	1	1	100 %
5266	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5290(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5294	1	1	1	1	1	1	1	1	1	1	100 %
5298	1	1	1	1	1	1	1	1	1	1	100 %
5302	1	1	1	1	1	1	1	1	1	1	100 %
5306	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5314	1	1	1	1	1	1	1	1	1	1	100 %
5318	1	1	1	1	1	1	1	1	1	1	100 %
5322	1	1	1	1	1	1	1	1	1	1	100 %
5326	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 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ =5330-5250=80 MHz											
EUT 99% OBW = 76.106 MHz; 76.106x80%=60.8848 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 (%)**
5529	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 %
5494	1	1	1	1	1	1	1	1	1	1	100 %
5498	1	1	1	1	1	1	1	1	1	1	100 %
5502	1	1	1	1	1	1	1	1	1	1	100 %
5506	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5514	1	1	1	1	1	1	1	1	1	1	100 %
5518	1	1	1	1	1	1	1	1	1	1	100 %
5522	1	1	1	1	1	1	1	1	1	1	100 %
5526	1	1	1	1	1	1	1	1	1	1	100 %
5530 (Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5534	1	1	1	1	1	1	1	1	1	1	100 %
5538	1	1	1	1	1	1	1	1	1	1	100 %
5542	1	1	1	1	1	1	1	1	1	1	100 %
5546	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5554	1	1	1	1	1	1	1	1	1	1	100 %
5558	1	1	1	1	1	1	1	1	1	1	100 %
5562	1	1	1	1	1	1	1	1	1	1	100 %
5566	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 =76.34 MHz; 76.34x80%=61.072 MHz **Result:** Pass											

10.2 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 1, 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 1	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-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5280	18	1	1428	1
2	5280	18	1	1428	1
3	5280	18	1	1428	1
4	5280	18	1	1428	1
5	5280	18	1	1428	1
6	5280	18	1	1428	1
7	5280	18	1	1428	1
8	5280	18	1	1428	1
9	5280	18	1	1428	1
10	5280	18	1	1428	1
11	5280	18	1	1428	1
12	5280	18	1	1428	1
13	5280	18	1	1428	1
14	5280	18	1	1428	1
15	5280	18	1	1428	1
16	5280	18	1	1428	1
17	5280	18	1	1428	1
18	5280	18	1	1428	1
19	5280	18	1	1428	1
20	5280	18	1	1428	1
21	5280	18	1	1428	1
22	5280	18	1	1428	1
23	5280	18	1	1428	1
24	5280	18	1	1428	1
25	5280	18	1	1428	1
26	5280	18	1	1428	1
27	5280	18	1	1428	1
28	5280	18	1	1428	1
29	5280	18	1	1428	1
30	5280	18	1	1428	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	25	5	222	1
2	5280	23	4.4	169	1
3	5280	26	4.6	166	1
4	5280	23	2.6	208	1
5	5280	23	2.2	208	1
6	5280	23	3.3	170	1
7	5280	29	2.5	207	1
8	5280	25	4.1	163	1
9	5280	24	2.5	220	1
10	5280	29	4.1	155	1
11	5280	25	4.8	229	1
12	5280	25	3	206	1
13	5280	23	4.4	179	1
14	5280	28	3.7	207	1
15	5280	27	2.3	198	1
16	5280	29	4.2	194	1
17	5280	27	5	205	1
18	5280	25	3.4	213	1
19	5280	26	3.6	174	1
20	5280	29	4.9	163	1
21	5280	26	3	152	1
22	5280	29	4.9	152	1
23	5280	28	1.4	226	1
24	5280	27	4.5	208	1
25	5280	27	4.3	175	1
26	5280	26	1.3	224	1
27	5280	27	1.7	223	1
28	5280	25	2.4	183	1
29	5280	23	2.4	223	1
30	5280	23	2.6	188	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	18	7.7	284	1
2	5280	17	10	227	1
3	5280	16	6.2	338	1
4	5280	16	7.2	389	1
5	5280	16	7.6	223	1
6	5280	17	7.8	486	1
7	5280	17	9.7	386	1
8	5280	17	8.2	256	1
9	5280	17	7.8	374	1
10	5280	17	6.2	396	1
11	5280	18	10	457	1
12	5280	18	6.5	463	1
13	5280	16	9.8	295	1
14	5280	16	6.5	309	1
15	5280	16	7.1	442	1
16	5280	17	7.8	418	1
17	5280	16	7.7	318	1
18	5280	16	8.9	326	1
19	5280	18	8.7	400	1
20	5280	18	6.3	224	1
21	5280	17	7.1	466	1
22	5280	17	8.8	403	1
23	5280	16	9.1	442	1
24	5280	17	7.1	385	1
25	5280	18	7.2	298	1
26	5280	16	9.5	254	1
27	5280	17	9.6	429	1
28	5280	16	9.5	463	1
29	5280	17	9	346	1
30	5280	17	8.3	200	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	16	13.7	399	1
2	5280	13	13.2	418	1
3	5280	14	13.7	477	1
4	5280	15	18.6	226	1
5	5280	16	18.1	219	1
6	5280	14	14.1	406	1
7	5280	16	14.3	207	1
8	5280	14	20	488	1
9	5280	13	11.6	217	1
10	5280	13	11.2	222	1
11	5280	16	16.6	268	1
12	5280	15	19.3	309	1
13	5280	14	15.3	321	1
14	5280	16	16.8	312	1
15	5280	12	16.1	424	1
16	5280	16	17.3	320	1
17	5280	16	17.7	375	1
18	5280	16	14.9	486	1
19	5280	15	14.8	391	1
20	5280	15	15.1	444	1
21	5280	12	17	271	1
22	5280	12	18.9	360	1
23	5280	14	15	289	1
24	5280	14	19.2	305	1
25	5280	16	19.9	253	1
26	5280	14	11.3	414	1
27	5280	15	15.4	225	1
28	5280	14	13.6	262	1
29	5280	16	13.9	420	1
30	5280	16	14.8	353	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	19	76.2	1632		0.091386	
1	1	10	69.3			1.555763	
2	1	8	69.7			2.004552	
3	3	17	50.3	1275	1811	3.031704	
4	1	20	50.9			3.746595	
5	2	8	65.1	1409		4.121037	
6	2	20	68.9	1938		5.556614	
7	2	15	99.4	1743		6.007936	1
8	3	13	71.7	1354	1771	6.838917	
9	2	18	80.5	1663		7.233505	
10	3	12	96.7	1704	1236	8.525763	
11	3	14	55	1137	1152	9.574591	
12	2	13	81	1545		9.906896	
13	2	9	51.2	1573		11.128826	
14	2	16	68.8	1736		11.782503	

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	12	58.7			1.080129	
1	3	15	65.7	1751	1439	1.619652	
2	1	9	76.5			2.936097	
3	3	9	85.1	1288	1415	4.0462	
4	3	19	61.5	1768	1791	4.864405	
5	2	11	50.1	1192		6.193559	1
6	3	9	67.7	1478	1888	7.165263	
7	2	19	59	1592		8.56699	
8	3	17	77.8	1154	1776	9.723708	
9	2	18	81	1837		9.88552	
10	1	6	69.9			11.101899	

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	19	86.7	1611		0.475655	
1	3	16	89.9	1193	1044	0.914561	
2	2	18	95.1	1032		1.823936	
3	3	19	89.1	1138	1291	2.573527	
4	3	14	68.4	1501	1037	3.464691	
5	2	11	64.8	1794		4.718833	
6	2	15	53.4	1106		5.970923	
7	3	16	71.5	1396	1610	6.243134	1
8	2	18	69.9	1425		6.876519	
9	2	15	74.1	1723		8.360865	
10	3	16	53.9	1688	1634	9.074982	
11	2	8	83.3	1525		9.775855	
12	2	7	84.8	1010		10.730493	
13	3	12	53.3	1597	1584	11.303545	

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	13	78.8	1923	1877	0.16	
1	2	19	62.2	1969		1.363007	
2	2	7	78.3	1687		2.123293	
3	2	6	82.1	1059		3.441208	
4	1	11	92.2			4.250241	
5	2	8	72.2	1233		5.237302	
6	2	13	56.8	1092		5.594143	1
7	2	19	76.9	1623		6.931501	
8	2	7	50.2	1888		8.109869	
9	1	12	57.2			8.82934	
10	2	15	91.7	1138		9.759136	
11	2	16	72	1713		10.875139	
12	3	12	88.7	1865	1615	11.635909	

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	18	83.5			0.699168	1
1	2	20	55	1487		1.014149	
2	2	16	96.9	1927		1.952041	
3	1	15	78.5			2.978567	
4	3	11	69.8	1800	1384	3.248901	
5	3	11	73.6	1443	1330	3.834094	
6	2	18	99.6	1030		5.220859	
7	2	5	59.6	1713		5.332375	
8	1	6	54.7			6.614623	
9	2	12	67.5	1957		7.488924	
10	2	7	58.1	1951		7.566029	
11	2	15	87.8	1392		8.655442	
12	3	10	68.8	1285	1335	9.086659	
13	3	19	58.2	1003	1862	10.205035	
14	1	13	94.5			10.761006	
15	3	11	65.5	1165	1272	11.278816	

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	18	52.4	1412		0.234963	1
1	2	17	63.5	1445		1.137866	
2	3	18	94.8	1704	1557	1.413613	
3	2	9	95.3	1892		2.361199	
4	2	14	95.8	1652		2.966349	
5	2	13	95.7	1954		3.40344	
6	2	6	71.8	1113		4.279316	
7	2	19	66.7	1674		4.707298	
8	1	11	95.8			5.571146	
9	2	12	72.9	1140		6.186393	
10	3	17	86.5	1449	1093	6.540973	

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	12	98.8			0.101142	1
1	3	17	63	1198	1972	1.199464	
2	2	15	54.4	1064		1.74287	
3	2	11	56.7	1041		2.251246	
4	2	16	65.7	1486		3.387703	
5	3	11	72	1268	1518	4.407932	
6	3	7	66.7	1654	1549	5.102276	
7	2	8	75.9	1985		5.336429	
8	2	18	82.3	1408		6.17812	
9	2	17	98.1	1323		7.040301	
10	1	6	54.4			8.022459	
11	2	10	92.1	1963		8.528801	
12	2	8	68.6	1087		9.087511	
13	3	17	90	1114	1379	10.339705	
14	1	19	94.6			10.967375	
15	2	16	57.9	1854		11.836543	

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	5	83.3	1196	1371	0.52267	1
1	2	16	68	1794		1.214222	
2	2	7	81.6	1344		3.100997	
3	3	14	74.9	1237	1068	3.702346	
4	1	6	57.1			5.491611	
5	2	6	55.7	1525		6.773674	
6	3	7	75.4	1010	1384	7.594694	
7	3	10	58	1538	1383	9.545756	
8	2	18	50.1	1138		10.588648	
9	2	11	60.8	1649		10.809469	

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	8	69.9	1583		0.258592	1
1	2	15	76.2	1091		1.631158	
2	3	19	54.3	1494	1441	2.227731	
3	2	13	98	1478		3.085516	
4	2	14	66.2	1764		4.041961	
5	1	16	73.4			4.811821	
6	1	19	68.2			5.643843	
7	1	6	94.1			6.682756	
8	2	17	80.5	1352		7.149011	
9	2	19	82.6	1576		7.959309	
10	2	6	66.2	1200		8.855889	
11	1	11	76.2			9.651042	
12	1	10	99			10.983506	
13	2	19	71.1	1954		11.388058	

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	12	70.2	1036		0.352737	
1	2	16	89.3	1540		0.845053	
2	3	7	53	1410	1221	1.456637	
3	2	19	96.6	1430		2.344514	
4	2	16	87.6	1298		3.420935	
5	2	15	56.8	1636		3.679621	
6	2	13	63.9	1670		4.82146	
7	1	6	57.2			4.957904	
8	2	9	68.3	1224		5.88502	1
9	3	14	99.8	1920	1284	6.574233	
10	2	12	66.9	1382		7.37435	
11	1	13	94.5			7.828676	
12	2	12	83.8	1057		8.597438	
13	3	12	70.4	1747	1436	9.430653	
14	1	11	56.5			9.883952	
15	1	11	64.7			11.11009	
16	3	10	81.7	1717	1320	11.961444	

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	12	74.4			0.156219	1
1	2	11	84.5	1255		2.119218	
2	1	11	53.6			3.19782	
3	1	7	59.6			4.620265	
4	2	6	70.7	1147		5.701701	
5	1	19	87.2			6.972493	
6	2	6	58.2	1186		8.691223	
7	3	10	92.2	1523	1370	9.700448	
8	2	13	60.3	1421		10.744127	

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	18	75.2	1622	1934	0.142912	1
1	1	10	71.2			0.942356	
2	3	17	70.9	1684	1762	2.059024	
3	3	9	54.9	1179	1572	3.551411	
4	2	10	64.5	1148		4.428292	
5	1	12	83.3			5.369465	
6	1	17	59.5			6.055226	
7	2	14	92.2	1219		7.326458	
8	3	8	54	1525	1189	7.535152	
9	2	18	55.3	1910		8.425953	
10	3	19	83.4	1721	1626	10.005921	
11	3	6	69	1748	1972	10.18341	
12	2	7	93.7	1783		11.355064	

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	20	58.4			0.388731	
1	2	18	85.9	1959		1.12796	
2	1	13	85.9			2.952363	
3	1	7	52.9			3.820837	
4	3	6	56.6	1191	1334	5.426181	
5	2	12	95.7	1559		6.503031	1
6	1	12	50.7			6.571824	
7	2	18	70.7	1420		7.703279	
8	2	16	62.9	1997		9.082329	
9	3	19	63.1	1540	1174	10.001245	
10	2	18	51.9	1997		11.243238	

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	12	74.3	1233	1307	0.301941	
1	2	16	60.9	1453		1.683912	
2	1	19	69			2.500797	
3	1	17	76.4			3.404463	
4	3	9	90.4	1442	1705	4.741798	
5	3	5	74.3	1081	1867	5.831239	1
6	2	15	53.5	1505		7.480959	
7	3	18	69.2	1673	1163	8.191333	
8	3	6	50.7	1022	1223	9.170705	
9	3	13	89.2	1018	1267	10.642418	
10	2	13	65.6	1047		11.438525	

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	10	75.9	1511	1440	0.612672	1
1	2	17	70.4	1003		2.2676	
2	2	17	84.1	1558		3.545041	
3	2	16	61.6	1726		3.942601	
4	1	19	66.2			5.795335	
5	3	9	63	1886	1704	7.051558	
6	3	6	84.5	1453	1286	7.706288	
7	1	14	94.1			8.903462	
8	1	14	89.1			9.700844	
9	2	7	57.8	1003		11.738087	

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	3	16	99.7	1687	1528	0.375401	1
1	3	8	77.4	1572	1625	1.912098	
2	3	16	91.8	1408	1115	2.219852	
3	2	9	92.9	1141		3.456032	
4	3	11	54.5	1753	1826	4.56394	
5	3	9	66.5	1425	1026	5.727412	
6	3	16	53.4	1651	1666	6.7729	
7	2	14	96.2	1552		7.878223	
8	2	10	62.4	1624		8.952685	
9	2	6	67.8	1904		9.657181	
10	2	6	69.7	1115		10.412395	
11	2	7	69.9	1815		11.904415	

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	17	95.5	1529	1380	0.436216	1
1	2	13	91.1	1103		1.402175	
2	1	10	98.1			1.873228	
3	3	14	50.1	1940	1145	2.483394	
4	2	9	93.6	1456		3.672298	
5	1	5	97			3.979129	
6	1	12	97.3			5.188764	
7	2	11	93.4	1346		5.848217	
8	3	18	84.1	1514	1955	6.363158	
9	2	8	77	1145		6.979035	
10	1	17	93.6			7.512085	
11	2	17	77.4	1581		8.564217	
12	2	6	79	1774		9.029015	
13	2	13	69.9	1293		10.268642	
14	2	8	97.5	1399		10.529903	
15	2	8	99	1511		11.844809	

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	16	68.7			0.778503	1
1	1	15	88.9			1.202419	
2	3	12	52	1810	1593	3.054379	
3	2	10	73	1090		3.749038	
4	1	8	58.3			5.408296	
5	3	15	86.6	1737	1229	5.655304	
6	1	7	55.1			7.076323	
7	3	9	63	1304	1468	8.612127	
8	3	10	74.4	1647	1797	9.193451	
9	1	6	79.7			10.066768	
10	2	17	90.5	1204		11.638581	

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	7	89.6	1818		0.716787	
1	2	16	89.9	1661		1.286777	
2	3	12	88.7	1589	1580	2.17544	
3	2	16	81.7	1617		2.734458	
4	3	11	96.5	1809	1836	3.800061	
5	1	7	90.2			4.398486	
6	2	11	88.7	1748		5.460936	
7	3	11	58.7	1574	1828	6.111247	1
8	2	13	51.7	1633		7.051803	
9	1	8	77.4			7.736464	
10	1	17	78.8			8.180447	
11	2	18	88.9	1069		8.806439	
12	1	7	58.4			9.681869	
13	1	6	87.3			10.501497	
14	2	5	88.1	1264		11.706319	

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	90.3	1037		1.494693	
1	1	8	73			2.631202	
2	2	9	97.5	1994		3.692715	
3	1	16	51.4			5.168699	1
4	2	12	66.5	1270		6.105062	
5	2	14	61.4	1337		7.96094	
6	2	13	53.7	1215		9.746371	
7	1	17	53.3			11.339916	

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	13	64.8	1431	1294	0.555652	1
1	1	13	58.7			1.823488	
2	2	8	88.9	1069		2.216158	
3	2	7	91.6	1890		3.61531	
4	3	14	51.5	1550	1250	4.147622	
5	2	10	52.5	1089		4.855631	
6	1	13	64.8			5.550688	
7	1	18	98.2			6.781427	
8	1	19	78.2			7.799686	
9	2	16	72.2	1260		9.224345	
10	1	19	65			9.235373	
11	3	9	72	1169	1481	10.273708	
12	1	17	79.1			11.679892	

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	5	72.1	1064	1537	0.427751	1
1	1	9	85			2.323469	
2	3	6	97.9	1487	1160	3.407463	
3	1	17	76.7			4.384759	
4	3	19	71.2	1697	1205	5.82211	
5	1	9	50.6			7.076919	
6	1	15	72.4			8.187196	
7	1	6	52.8			9.75484	
8	1	8	79.3			10.930752	

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	12	67.7			0.72854	1
1	2	17	90.9	1959		1.362959	
2	3	16	61.5	1115	1371	2.173069	
3	2	11	82.7	1105		3.073381	
4	1	6	67.4			3.450692	
5	3	20	76	1014	1660	4.327603	
6	2	19	94.5	1705		5.487503	
7	3	11	75.2	1450	1058	6.294618	
8	2	16	53.5	1892		7.401643	
9	1	7	72.2			8.548769	

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	20	62.2			0.681797	1
1	1	17	90.9			1.639066	
2	2	17	92.3	1555		3.468643	
3	1	17	81.1			4.407337	
4	3	18	64.8	1551	1614	5.670299	
5	1	10	91.9			6.74539	
6	3	15	94.4	1532	1298	7.244604	
7	1	14	63.6			8.521859	
8	2	10	86.6	1516		10.747892	
9	2	16	79.8	1967		11.357264	

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	19	75.4			0.479643	1
1	2	14	64.3	1691		1.298481	
2	2	10	87	1800		1.919521	
3	2	12	95.8	1603		2.54653	
4	2	11	77.8	1872		3.408198	
5	1	14	95.2			3.90362	
6	3	17	85.9	1724	1687	4.331665	
7	1	13	72.2			5.078893	
8	1	15	58.3			5.671562	
9	2	12	68.3	1250		6.45741	
10	2	18	52.5	1503		7.136699	
11	3	17	98.3	1928	1536	7.996267	
12	2	12	50.9	1709		9.090926	

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	12	60	1909		0.685364	1
1	2	17	80.3	1320		1.253167	
2	2	5	92.7	1689		2.005176	
3	2	6	52.4	1861		2.796286	
4	1	19	63.9			3.552664	
5	2	13	99.9	1348		4.57181	
6	3	6	54.3	1037	1643	5.3087	
7	2	17	73.1	1336		6.191795	
8	3	9	52.8	1988	1487	7.514537	
9	3	6	52.7	1903	1598	8.333078	
10	3	16	87.1	1336	1297	8.651472	
11	3	14	66.5	1080	1512	9.959204	
12	2	13	87.7	1829		10.731832	
13	1	8	90			11.385966	

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	12	81.9	1570		0.010919	
1	1	19	81.8			0.791034	
2	3	6	54	1070	1595	1.805852	
3	3	7	73.1	1296	1346	2.088016	
4	2	15	77.7	1220		2.802825	
5	2	5	55.1	1720		3.937691	
6	1	8	55.4			4.302589	
7	2	16	70.6	1303		5.042978	
8	3	15	72.6	1378	1299	5.745549	
9	1	9	99.4			6.394166	
10	3	17	90.7	1038	1030	6.761785	
11	2	14	87.9	1059		7.659631	
12	2	17	67.1	1010		8.435952	
13	2	8	73.6	1415		8.681511	1
14	2	19	51.8	1829		9.566966	
15	3	17	73.2	1166	1064	10.140458	
16	2	6	77.9	1209		11.064739	
17	2	13	72.8	1372		11.786706	
0	2	12	81.9	1570		0.010919	
1	1	19	81.8			0.791034	
2	3	6	54	1070	1595	1.805852	
3	3	7	73.1	1296	1346	2.088016	
4	2	15	77.7	1220		2.802825	
5	2	5	55.1	1720		3.937691	
6	1	8	55.4			4.302589	
7	2	16	70.6	1303		5.042978	

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	10	62.8	1498		0.401784	
1	2	12	91.5	1123		1.332201	
2	2	8	88.3	1122		2.57791	
3	2	11	66.2	1598		3.651144	
4	3	8	82.1	1765	1112	5.221608	
5	2	15	81.9	1357		5.593982	1
6	2	13	84.4	1770		7.446504	
7	3	6	89.1	1374	1408	8.066304	
8	1	15	97.5			9.036305	
9	3	13	88.7	1669	1012	10.733088	
10	1	18	69.5			11.403421	

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	20	53.1	1917	1943	0.005664	
1	3	11	52.3	1537	1352	1.201528	
2	3	11	57.8	1447	1359	1.797702	
3	2	14	78	1519		2.182671	
4	3	18	57	1826	1630	2.967005	
5	2	6	70.9	1890		3.907376	
6	2	6	59	1011		4.242707	
7	2	18	62	1777		4.752015	
8	2	14	50.7	1458		5.567917	
9	2	16	82.8	1210		6.151105	1
10	2	11	64.3	1198		7.0531	
11	1	20	68.6			7.763853	
12	1	8	50.6			8.409217	
13	2	9	56.9	1592		8.996923	
14	1	11	56.8			9.337866	
15	3	7	59.7	1240	1484	10.282015	
16	1	15	76.1			11.252945	
17	3	19	86.1	1251	1869	11.990615	

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	16	67.6	1399		0.254105	1
1	2	18	58.4	1837		1.090111	
2	1	6	82.8			2.46525	
3	2	6	95.7	1800		3.191509	
4	2	14	76.8	1059		4.129129	
5	2	18	81.4	1792		5.790271	
6	2	6	88	1727		6.914485	
7	2	20	62.2	1008		7.660794	
8	2	8	79.5	1004		8.870075	
9	3	17	79.7	1312	1869	9.308852	
10	1	14	80			10.558725	
11	2	15	78.3	1092		11.680655	

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	5661.0, 5692.0, 5706.0, 5492.0, 5618.0, 5386.0, 5482.0, 5499.0, 5281.0, 5660.0, 5379.0, 5300.0, 5624.0, 5409.0, 5343.0, 5400.0, 5519.0, 5277.0, 5275.0, 5486.0, 5367.0, 5474.0, 5672.0, 5494.0, 5604.0, 5306.0, 5656.0, 5392.0, 5337.0, 5614.0, 5585.0, 5641.0, 5408.0, 5353.0, 5286.0, 5707.0, 5556.0, 5637.0, 5424.0, 5314.0, 5688.0, 5513.0, 5488.0, 5422.0, 5360.0, 5504.0, 5298.0, 5305.0, 5723.0, 5366.0, 5617.0, 5587.0, 5317.0, 5339.0, 5430.0, 5515.0, 5720.0, 5253.0, 5648.0, 5639.0, 5463.0, 5608.0, 5633.0, 5653.0, 5320.0, 5460.0, 5487.0, 5271.0, 5351.0, 5457.0, 5546.0, 5374.0, 5553.0, 5613.0, 5526.0, 5472.0, 5579.0, 5291.0, 5450.0, 5440.0, 5478.0, 5342.0, 5340.0, 5569.0, 5581.0, 5258.0, 5364.0, 5577.0, 5502.0, 5435.0, 5512.0, 5599.0, 5536.0, 5588.0, 5713.0, 5528.0, 5301.0, 5582.0, 5498.0, 5334.0 (number of hits: 8)
2	5280	9	1	333	1	5376.0, 5527.0, 5505.0, 5629.0, 5622.0, 5354.0, 5502.0, 5457.0, 5305.0, 5681.0, 5711.0, 5700.0, 5368.0, 5568.0, 5297.0, 5574.0, 5396.0, 5662.0, 5391.0, 5389.0, 5480.0, 5321.0, 5565.0, 5552.0, 5435.0, 5581.0, 5416.0, 5298.0, 5399.0, 5382.0, 5478.0, 5367.0, 5281.0, 5589.0, 5603.0, 5546.0, 5291.0, 5397.0, 5715.0, 5277.0, 5720.0, 5468.0, 5466.0, 5313.0, 5405.0, 5578.0, 5427.0, 5498.0, 5337.0, 5451.0, 5640.0, 5722.0, 5704.0, 5312.0, 5667.0, 5583.0, 5333.0, 5706.0, 5283.0, 5495.0, 5401.0, 5342.0, 5701.0, 5566.0, 5500.0, 5263.0, 5512.0, 5450.0, 5383.0, 5614.0, 5296.0, 5300.0, 5275.0, 5588.0, 5536.0, 5316.0, 5650.0, 5430.0, 5486.0, 5514.0, 5460.0, 5541.0, 5699.0, 5455.0, 5573.0, 5641.0, 5596.0, 5259.0, 5526.0, 5441.0, 5691.0, 5642.0, 5618.0, 5278.0, 5584.0, 5375.0, 5492.0, 5307.0, 5410.0, 5553.0 (number of hits: 9)
3	5280	9	1	333	1	5334.0, 5700.0, 5599.0, 5526.0, 5717.0, 5585.0, 5629.0, 5553.0, 5501.0, 5621.0, 5332.0, 5719.0, 5521.0, 5378.0, 5359.0, 5391.0, 5698.0, 5711.0, 5373.0, 5444.0, 5363.0, 5308.0, 5431.0, 5462.0, 5440.0, 5266.0, 5517.0, 5255.0, 5325.0, 5511.0, 5263.0, 5486.0, 5257.0, 5610.0, 5636.0, 5386.0, 5452.0, 5425.0, 5541.0, 5360.0, 5652.0, 5721.0, 5694.0, 5412.0, 5442.0, 5464.0, 5448.0, 5390.0, 5258.0, 5450.0, 5670.0, 5432.0, 5362.0, 5685.0, 5350.0, 5299.0, 5619.0, 5355.0, 5438.0, 5418.0,

						5664.0, 5427.0, 5547.0, 5454.0, 5320.0, 5678.0, 5612.0, 5552.0, 5443.0, 5286.0, 5677.0, 5317.0, 5470.0, 5542.0, 5473.0, 5598.0, 5519.0, 5404.0, 5387.0, 5564.0, 5430.0, 5323.0, 5351.0, 5494.0, 5684.0, 5305.0, 5275.0, 5392.0, 5692.0, 5406.0, 5315.0, 5322.0, 5330.0, 5369.0, 5667.0, 5346.0, 5575.0, 5312.0, 5650.0, 5561.0 (number of hits: 5)
4	5280	9	1	333	1	5446.0, 5490.0, 5570.0, 5603.0, 5547.0, 5516.0, 5562.0, 5418.0, 5578.0, 5679.0, 5682.0, 5373.0, 5699.0, 5470.0, 5646.0, 5323.0, 5523.0, 5389.0, 5327.0, 5361.0, 5705.0, 5480.0, 5576.0, 5710.0, 5491.0, 5385.0, 5618.0, 5644.0, 5257.0, 5342.0, 5414.0, 5688.0, 5697.0, 5405.0, 5550.0, 5566.0, 5451.0, 5611.0, 5597.0, 5514.0, 5381.0, 5717.0, 5511.0, 5458.0, 5375.0, 5674.0, 5461.0, 5657.0, 5422.0, 5328.0, 5561.0, 5665.0, 5509.0, 5455.0, 5410.0, 5689.0, 5441.0, 5254.0, 5388.0, 5395.0, 5349.0, 5475.0, 5255.0, 5356.0, 5355.0, 5464.0, 5263.0, 5354.0, 5362.0, 5586.0, 5648.0, 5309.0, 5528.0, 5275.0, 5350.0, 5462.0, 5407.0, 5589.0, 5468.0, 5358.0, 5478.0, 5579.0, 5340.0, 5286.0, 5633.0, 5502.0, 5549.0, 5715.0, 5383.0, 5510.0, 5396.0, 5387.0, 5649.0, 5320.0, 5409.0, 5339.0, 5372.0, 5629.0, 5347.0, 5465.0 (number of hits: 2)
5	5280	9	1	333	1	5627.0, 5349.0, 5508.0, 5488.0, 5276.0, 5625.0, 5547.0, 5527.0, 5628.0, 5533.0, 5703.0, 5356.0, 5688.0, 5368.0, 5267.0, 5451.0, 5419.0, 5284.0, 5475.0, 5434.0, 5359.0, 5429.0, 5559.0, 5550.0, 5605.0, 5388.0, 5462.0, 5522.0, 5288.0, 5525.0, 5333.0, 5513.0, 5562.0, 5400.0, 5670.0, 5581.0, 5543.0, 5662.0, 5578.0, 5266.0, 5708.0, 5253.0, 5458.0, 5308.0, 5673.0, 5602.0, 5668.0, 5593.0, 5692.0, 5639.0, 5642.0, 5560.0, 5569.0, 5339.0, 5669.0, 5704.0, 5421.0, 5696.0, 5515.0, 5407.0, 5376.0, 5442.0, 5450.0, 5663.0, 5491.0, 5724.0, 5399.0, 5437.0, 5394.0, 5293.0, 5618.0, 5641.0, 5695.0, 5353.0, 5320.0, 5612.0, 5448.0, 5441.0, 5611.0, 5416.0, 5402.0, 5584.0, 5556.0, 5561.0, 5623.0, 5428.0, 5265.0, 5580.0, 5490.0, 5549.0, 5711.0, 5355.0, 5539.0, 5503.0, 5667.0, 5335.0, 5329.0, 5445.0, 5577.0, 5392.0 (number of hits: 3)
6	5280	9	1	333	1	5412.0, 5672.0, 5357.0, 5308.0, 5714.0, 5591.0, 5624.0, 5669.0, 5430.0, 5643.0, 5528.0, 5252.0, 5264.0, 5385.0, 5481.0, 5438.0, 5652.0, 5666.0, 5464.0, 5431.0, 5425.0, 5588.0, 5304.0, 5361.0, 5538.0, 5706.0, 5356.0, 5601.0, 5476.0, 5311.0, 5465.0, 5700.0, 5303.0, 5477.0, 5708.0, 5362.0, 5615.0, 5469.0, 5686.0, 5371.0, 5515.0, 5722.0, 5436.0, 5580.0, 5470.0,

						5255.0, 5609.0, 5358.0, 5474.0, 5387.0, 5514.0, 5313.0, 5466.0, 5631.0, 5614.0, 5507.0, 5505.0, 5579.0, 5353.0, 5404.0, 5267.0, 5504.0, 5277.0, 5518.0, 5442.0, 5640.0, 5325.0, 5539.0, 5560.0, 5427.0, 5691.0, 5348.0, 5668.0, 5650.0, 5335.0, 5684.0, 5645.0, 5400.0, 5286.0, 5616.0, 5410.0, 5352.0, 5628.0, 5363.0, 5401.0, 5576.0, 5522.0, 5287.0, 5260.0, 5533.0, 5453.0, 5540.0, 5508.0, 5496.0, 5284.0, 5721.0, 5270.0, 5511.0, 5654.0, 5384.0 (number of hits: 7)
7	5280	9	1	333	1	5404.0, 5662.0, 5559.0, 5625.0, 5698.0, 5606.0, 5287.0, 5525.0, 5251.0, 5577.0, 5700.0, 5602.0, 5255.0, 5268.0, 5682.0, 5452.0, 5609.0, 5295.0, 5273.0, 5711.0, 5291.0, 5492.0, 5308.0, 5410.0, 5524.0, 5565.0, 5705.0, 5351.0, 5393.0, 5533.0, 5387.0, 5547.0, 5254.0, 5328.0, 5481.0, 5261.0, 5719.0, 5462.0, 5399.0, 5713.0, 5451.0, 5509.0, 5459.0, 5573.0, 5673.0, 5359.0, 5390.0, 5283.0, 5556.0, 5447.0, 5641.0, 5322.0, 5321.0, 5687.0, 5367.0, 5325.0, 5316.0, 5425.0, 5361.0, 5289.0, 5391.0, 5563.0, 5430.0, 5438.0, 5366.0, 5615.0, 5722.0, 5432.0, 5277.0, 5500.0, 5501.0, 5469.0, 5574.0, 5421.0, 5271.0, 5541.0, 5650.0, 5552.0, 5657.0, 5603.0, 5443.0, 5319.0, 5697.0, 5274.0, 5516.0, 5620.0, 5400.0, 5512.0, 5340.0, 5569.0, 5380.0, 5372.0, 5342.0, 5470.0, 5618.0, 5515.0, 5596.0, 5658.0, 5441.0, 5499.0 (number of hits: 5)
8	5280	9	1	333	1	5524.0, 5597.0, 5429.0, 5264.0, 5276.0, 5659.0, 5301.0, 5656.0, 5481.0, 5697.0, 5702.0, 5698.0, 5368.0, 5641.0, 5354.0, 5344.0, 5708.0, 5474.0, 5334.0, 5681.0, 5639.0, 5638.0, 5351.0, 5585.0, 5265.0, 5491.0, 5576.0, 5394.0, 5668.0, 5610.0, 5300.0, 5627.0, 5535.0, 5504.0, 5589.0, 5559.0, 5533.0, 5596.0, 5700.0, 5562.0, 5258.0, 5337.0, 5563.0, 5313.0, 5495.0, 5649.0, 5384.0, 5645.0, 5602.0, 5595.0, 5687.0, 5340.0, 5488.0, 5682.0, 5374.0, 5699.0, 5357.0, 5600.0, 5286.0, 5636.0, 5353.0, 5282.0, 5425.0, 5543.0, 5411.0, 5341.0, 5387.0, 5513.0, 5355.0, 5555.0, 5393.0, 5575.0, 5437.0, 5365.0, 5567.0, 5557.0, 5380.0, 5470.0, 5568.0, 5532.0, 5453.0, 5421.0, 5478.0, 5464.0, 5693.0, 5329.0, 5679.0, 5688.0, 5616.0, 5420.0, 5502.0, 5356.0, 5415.0, 5392.0, 5620.0, 5614.0, 5552.0, 5655.0, 5311.0, 5709.0 (number of hits: 5)
9	5280	9	1	333	1	5675.0, 5365.0, 5470.0, 5477.0, 5687.0, 5286.0, 5551.0, 5492.0, 5415.0, 5347.0, 5537.0, 5327.0, 5665.0, 5648.0, 5519.0, 5341.0, 5544.0, 5399.0, 5560.0, 5706.0, 5263.0, 5394.0, 5685.0, 5599.0, 5430.0, 5447.0, 5395.0, 5691.0, 5633.0, 5677.0,

						5479.0, 5457.0, 5396.0, 5664.0, 5632.0, 5565.0, 5288.0, 5669.0, 5461.0, 5397.0, 5304.0, 5593.0, 5358.0, 5640.0, 5613.0, 5610.0, 5547.0, 5486.0, 5251.0, 5695.0, 5429.0, 5509.0, 5616.0, 5284.0, 5366.0, 5672.0, 5289.0, 5444.0, 5702.0, 5641.0, 5312.0, 5666.0, 5254.0, 5534.0, 5460.0, 5530.0, 5330.0, 5561.0, 5379.0, 5473.0, 5523.0, 5636.0, 5408.0, 5721.0, 5627.0, 5483.0, 5308.0, 5271.0, 5375.0, 5686.0, 5342.0, 5670.0, 5290.0, 5425.0, 5257.0, 5505.0, 5517.0, 5649.0, 5421.0, 5536.0, 5382.0, 5264.0, 5489.0, 5345.0, 5585.0, 5464.0, 5520.0, 5360.0, 5521.0, 5531.0 (number of hits: 7)
10	5280	9	1	333	1	5673.0, 5545.0, 5721.0, 5682.0, 5580.0, 5386.0, 5339.0, 5406.0, 5352.0, 5637.0, 5539.0, 5624.0, 5279.0, 5652.0, 5638.0, 5588.0, 5373.0, 5488.0, 5288.0, 5458.0, 5303.0, 5485.0, 5425.0, 5519.0, 5447.0, 5351.0, 5480.0, 5680.0, 5363.0, 5259.0, 5590.0, 5271.0, 5613.0, 5716.0, 5388.0, 5357.0, 5340.0, 5353.0, 5300.0, 5410.0, 5690.0, 5617.0, 5444.0, 5331.0, 5449.0, 5508.0, 5325.0, 5635.0, 5332.0, 5319.0, 5306.0, 5589.0, 5282.0, 5266.0, 5295.0, 5317.0, 5643.0, 5260.0, 5535.0, 5598.0, 5369.0, 5434.0, 5474.0, 5564.0, 5514.0, 5307.0, 5358.0, 5534.0, 5408.0, 5420.0, 5287.0, 5549.0, 5572.0, 5619.0, 5645.0, 5683.0, 5644.0, 5591.0, 5660.0, 5543.0, 5433.0, 5309.0, 5609.0, 5254.0, 5708.0, 5608.0, 5576.0, 5384.0, 5495.0, 5257.0, 5548.0, 5496.0, 5642.0, 5686.0, 5704.0, 5499.0, 5475.0, 5664.0, 5554.0, 5470.0 (number of hits: 8)
11	5280	9	1	333	1	5609.0, 5467.0, 5383.0, 5542.0, 5365.0, 5357.0, 5518.0, 5304.0, 5715.0, 5680.0, 5277.0, 5273.0, 5719.0, 5470.0, 5415.0, 5630.0, 5711.0, 5659.0, 5390.0, 5528.0, 5449.0, 5573.0, 5681.0, 5279.0, 5280.0, 5318.0, 5610.0, 5541.0, 5720.0, 5483.0, 5701.0, 5629.0, 5673.0, 5687.0, 5335.0, 5395.0, 5419.0, 5332.0, 5516.0, 5581.0, 5360.0, 5628.0, 5615.0, 5409.0, 5588.0, 5367.0, 5275.0, 5436.0, 5276.0, 5718.0, 5538.0, 5420.0, 5621.0, 5685.0, 5442.0, 5597.0, 5309.0, 5660.0, 5267.0, 5298.0, 5709.0, 5682.0, 5513.0, 5306.0, 5361.0, 5495.0, 5625.0, 5423.0, 5369.0, 5321.0, 5319.0, 5655.0, 5266.0, 5670.0, 5287.0, 5457.0, 5620.0, 5534.0, 5482.0, 5274.0, 5568.0, 5397.0, 5453.0, 5596.0, 5455.0, 5688.0, 5433.0, 5363.0, 5562.0, 5403.0, 5366.0, 5531.0, 5289.0, 5394.0, 5465.0, 5669.0, 5717.0, 5368.0, 5489.0, 5331.0 (number of hits: 6)
12	5280	9	1	333	1	5561.0, 5712.0, 5447.0, 5294.0, 5524.0, 5467.0, 5687.0, 5711.0, 5513.0, 5388.0, 5300.0, 5638.0, 5449.0, 5428.0, 5641.0,

						5702.0, 5491.0, 5291.0, 5347.0, 5472.0, 5261.0, 5581.0, 5663.0, 5427.0, 5335.0, 5460.0, 5454.0, 5598.0, 5696.0, 5340.0, 5493.0, 5426.0, 5396.0, 5492.0, 5538.0, 5505.0, 5281.0, 5631.0, 5278.0, 5658.0, 5527.0, 5382.0, 5713.0, 5537.0, 5599.0, 5420.0, 5592.0, 5481.0, 5453.0, 5348.0, 5345.0, 5458.0, 5310.0, 5600.0, 5620.0, 5521.0, 5475.0, 5523.0, 5578.0, 5589.0, 5413.0, 5509.0, 5303.0, 5590.0, 5374.0, 5642.0, 5591.0, 5473.0, 5425.0, 5432.0, 5359.0, 5336.0, 5358.0, 5677.0, 5459.0, 5543.0, 5633.0, 5452.0, 5289.0, 5697.0, 5617.0, 5648.0, 5298.0, 5265.0, 5680.0, 5707.0, 5379.0, 5273.0, 5373.0, 5621.0, 5682.0, 5433.0, 5531.0, 5252.0, 5410.0, 5596.0, 5539.0, 5411.0, 5554.0, 5445.0 (number of hits: 7)
13	5280	9	1	333	1	5703.0, 5482.0, 5708.0, 5292.0, 5268.0, 5512.0, 5640.0, 5300.0, 5467.0, 5433.0, 5494.0, 5653.0, 5508.0, 5514.0, 5619.0, 5475.0, 5696.0, 5592.0, 5590.0, 5602.0, 5275.0, 5259.0, 5326.0, 5620.0, 5258.0, 5428.0, 5488.0, 5307.0, 5384.0, 5364.0, 5271.0, 5527.0, 5610.0, 5476.0, 5544.0, 5567.0, 5357.0, 5429.0, 5473.0, 5298.0, 5657.0, 5436.0, 5634.0, 5454.0, 5612.0, 5377.0, 5586.0, 5484.0, 5540.0, 5277.0, 5513.0, 5561.0, 5306.0, 5305.0, 5280.0, 5519.0, 5334.0, 5293.0, 5483.0, 5496.0, 5711.0, 5375.0, 5466.0, 5460.0, 5679.0, 5423.0, 5391.0, 5631.0, 5532.0, 5477.0, 5667.0, 5252.0, 5402.0, 5617.0, 5618.0, 5555.0, 5581.0, 5668.0, 5646.0, 5523.0, 5342.0, 5439.0, 5320.0, 5378.0, 5452.0, 5362.0, 5644.0, 5557.0, 5431.0, 5405.0, 5607.0, 5276.0, 5674.0, 5701.0, 5456.0, 5450.0, 5437.0, 5598.0, 5304.0, 5568.0 (number of hits: 8)
14	5280	9	1	333	1	5671.0, 5690.0, 5672.0, 5569.0, 5651.0, 5574.0, 5702.0, 5407.0, 5668.0, 5333.0, 5634.0, 5357.0, 5584.0, 5514.0, 5466.0, 5636.0, 5308.0, 5706.0, 5653.0, 5266.0, 5461.0, 5455.0, 5572.0, 5592.0, 5264.0, 5622.0, 5471.0, 5441.0, 5348.0, 5699.0, 5685.0, 5291.0, 5479.0, 5415.0, 5709.0, 5412.0, 5641.0, 5481.0, 5551.0, 5700.0, 5410.0, 5265.0, 5557.0, 5256.0, 5637.0, 5523.0, 5684.0, 5399.0, 5360.0, 5270.0, 5647.0, 5594.0, 5544.0, 5452.0, 5570.0, 5292.0, 5688.0, 5347.0, 5537.0, 5450.0, 5385.0, 5340.0, 5329.0, 5655.0, 5389.0, 5302.0, 5269.0, 5367.0, 5480.0, 5532.0, 5489.0, 5380.0, 5254.0, 5346.0, 5324.0, 5562.0, 5343.0, 5656.0, 5598.0, 5545.0, 5508.0, 5428.0, 5341.0, 5581.0, 5516.0, 5577.0, 5384.0, 5643.0, 5711.0, 5331.0, 5674.0, 5705.0, 5443.0, 5568.0, 5657.0, 5582.0, 5376.0, 5501.0, 5528.0, 5533.0 (number of hits: 4)

15	5280	9	1	333	1	5527.0, 5495.0, 5652.0, 5311.0, 5307.0, 5609.0, 5571.0, 5252.0, 5323.0, 5454.0, 5535.0, 5340.0, 5599.0, 5344.0, 5596.0, 5718.0, 5613.0, 5550.0, 5504.0, 5498.0, 5492.0, 5607.0, 5273.0, 5590.0, 5330.0, 5562.0, 5709.0, 5284.0, 5691.0, 5315.0, 5298.0, 5506.0, 5376.0, 5439.0, 5547.0, 5367.0, 5267.0, 5694.0, 5294.0, 5645.0, 5716.0, 5624.0, 5290.0, 5526.0, 5666.0, 5421.0, 5693.0, 5484.0, 5475.0, 5473.0, 5696.0, 5361.0, 5370.0, 5723.0, 5459.0, 5289.0, 5362.0, 5272.0, 5633.0, 5391.0, 5686.0, 5296.0, 5351.0, 5522.0, 5698.0, 5549.0, 5487.0, 5264.0, 5304.0, 5347.0, 5496.0, 5259.0, 5408.0, 5619.0, 5608.0, 5464.0, 5369.0, 5702.0, 5627.0, 5385.0, 5603.0, 5348.0, 5557.0, 5327.0, 5386.0, 5620.0, 5558.0, 5588.0, 5444.0, 5579.0, 5560.0, 5430.0, 5397.0, 5500.0, 5258.0, 5637.0, 5664.0, 5583.0, 5419.0, 5410.0 (number of hits: 8)
16	5280	9	1	333	1	5421.0, 5480.0, 5402.0, 5261.0, 5627.0, 5697.0, 5281.0, 5571.0, 5417.0, 5476.0, 5612.0, 5554.0, 5272.0, 5250.0, 5677.0, 5528.0, 5703.0, 5665.0, 5653.0, 5301.0, 5277.0, 5490.0, 5492.0, 5260.0, 5390.0, 5348.0, 5275.0, 5488.0, 5464.0, 5307.0, 5608.0, 5646.0, 5496.0, 5339.0, 5456.0, 5557.0, 5317.0, 5615.0, 5695.0, 5451.0, 5327.0, 5663.0, 5537.0, 5258.0, 5666.0, 5515.0, 5566.0, 5690.0, 5271.0, 5645.0, 5535.0, 5403.0, 5435.0, 5289.0, 5621.0, 5509.0, 5443.0, 5314.0, 5694.0, 5706.0, 5438.0, 5365.0, 5688.0, 5589.0, 5534.0, 5342.0, 5541.0, 5543.0, 5601.0, 5679.0, 5349.0, 5382.0, 5650.0, 5303.0, 5432.0, 5613.0, 5426.0, 5360.0, 5364.0, 5287.0, 5455.0, 5607.0, 5640.0, 5450.0, 5520.0, 5609.0, 5684.0, 5724.0, 5418.0, 5422.0, 5330.0, 5611.0, 5372.0, 5540.0, 5326.0, 5678.0, 5292.0, 5324.0, 5452.0, 5381.0 (number of hits: 7)
17	5280	9	1	333	1	5607.0, 5593.0, 5559.0, 5293.0, 5561.0, 5713.0, 5670.0, 5627.0, 5479.0, 5298.0, 5562.0, 5488.0, 5465.0, 5355.0, 5572.0, 5678.0, 5691.0, 5408.0, 5543.0, 5547.0, 5346.0, 5483.0, 5450.0, 5342.0, 5266.0, 5460.0, 5541.0, 5723.0, 5444.0, 5363.0, 5634.0, 5261.0, 5612.0, 5417.0, 5630.0, 5575.0, 5259.0, 5312.0, 5604.0, 5385.0, 5512.0, 5546.0, 5403.0, 5439.0, 5306.0, 5696.0, 5530.0, 5360.0, 5286.0, 5496.0, 5268.0, 5660.0, 5622.0, 5620.0, 5538.0, 5333.0, 5438.0, 5309.0, 5521.0, 5405.0, 5662.0, 5276.0, 5715.0, 5412.0, 5564.0, 5458.0, 5471.0, 5451.0, 5544.0, 5515.0, 5676.0, 5598.0, 5356.0, 5502.0, 5454.0, 5712.0, 5616.0, 5285.0, 5494.0, 5335.0, 5667.0, 5278.0, 5509.0, 5692.0, 5388.0, 5330.0, 5275.0, 5615.0, 5314.0, 5497.0,

						5424.0, 5472.0, 5527.0, 5301.0, 5486.0, 5420.0, 5535.0, 5707.0, 5367.0, 5640.0 (number of hits: 9)
18	5280	9	1	333	1	5526.0, 5632.0, 5556.0, 5359.0, 5528.0, 5358.0, 5535.0, 5568.0, 5655.0, 5597.0, 5671.0, 5569.0, 5435.0, 5723.0, 5366.0, 5619.0, 5370.0, 5514.0, 5355.0, 5610.0, 5620.0, 5691.0, 5505.0, 5506.0, 5644.0, 5697.0, 5316.0, 5304.0, 5343.0, 5656.0, 5479.0, 5714.0, 5391.0, 5404.0, 5269.0, 5314.0, 5515.0, 5499.0, 5443.0, 5406.0, 5287.0, 5434.0, 5459.0, 5587.0, 5721.0, 5437.0, 5283.0, 5324.0, 5452.0, 5608.0, 5299.0, 5454.0, 5405.0, 5552.0, 5420.0, 5716.0, 5666.0, 5498.0, 5616.0, 5474.0, 5375.0, 5500.0, 5284.0, 5271.0, 5582.0, 5463.0, 5550.0, 5607.0, 5710.0, 5696.0, 5567.0, 5560.0, 5427.0, 5662.0, 5708.0, 5664.0, 5253.0, 5534.0, 5570.0, 5329.0, 5557.0, 5296.0, 5645.0, 5559.0, 5317.0, 5579.0, 5335.0, 5392.0, 5624.0, 5669.0, 5380.0, 5688.0, 5426.0, 5720.0, 5260.0, 5561.0, 5574.0, 5449.0, 5667.0, 5564.0 (number of hits: 5)
19	5280	9	1	333	1	5544.0, 5270.0, 5377.0, 5608.0, 5534.0, 5410.0, 5720.0, 5260.0, 5357.0, 5289.0, 5399.0, 5317.0, 5561.0, 5694.0, 5286.0, 5415.0, 5266.0, 5405.0, 5351.0, 5340.0, 5315.0, 5318.0, 5350.0, 5660.0, 5688.0, 5581.0, 5282.0, 5458.0, 5367.0, 5644.0, 5294.0, 5448.0, 5516.0, 5645.0, 5594.0, 5639.0, 5287.0, 5703.0, 5407.0, 5527.0, 5385.0, 5665.0, 5579.0, 5371.0, 5438.0, 5626.0, 5409.0, 5715.0, 5552.0, 5454.0, 5578.0, 5545.0, 5504.0, 5659.0, 5499.0, 5345.0, 5641.0, 5722.0, 5647.0, 5677.0, 5305.0, 5321.0, 5257.0, 5475.0, 5269.0, 5508.0, 5712.0, 5576.0, 5343.0, 5556.0, 5436.0, 5379.0, 5597.0, 5541.0, 5535.0, 5622.0, 5588.0, 5643.0, 5648.0, 5346.0, 5400.0, 5380.0, 5500.0, 5265.0, 5686.0, 5446.0, 5642.0, 5464.0, 5668.0, 5714.0, 5376.0, 5661.0, 5452.0, 5366.0, 5653.0, 5258.0, 5625.0, 5327.0, 5267.0, 5551.0 (number of hits: 5)
20	5280	9	1	333	1	5465.0, 5316.0, 5481.0, 5474.0, 5611.0, 5480.0, 5449.0, 5283.0, 5398.0, 5639.0, 5464.0, 5291.0, 5485.0, 5627.0, 5468.0, 5439.0, 5489.0, 5694.0, 5603.0, 5512.0, 5717.0, 5310.0, 5484.0, 5423.0, 5486.0, 5560.0, 5722.0, 5302.0, 5396.0, 5523.0, 5599.0, 5656.0, 5588.0, 5586.0, 5351.0, 5286.0, 5519.0, 5593.0, 5429.0, 5308.0, 5553.0, 5697.0, 5591.0, 5431.0, 5418.0, 5315.0, 5674.0, 5352.0, 5509.0, 5324.0, 5280.0, 5565.0, 5350.0, 5450.0, 5562.0, 5608.0, 5631.0, 5282.0, 5567.0, 5299.0, 5503.0, 5632.0, 5445.0, 5257.0, 5437.0, 5297.0, 5590.0, 5274.0, 5306.0, 5477.0, 5559.0, 5378.0, 5496.0, 5705.0, 5671.0,

						5633.0, 5643.0, 5385.0, 5446.0, 5346.0, 5655.0, 5716.0, 5648.0, 5531.0, 5483.0, 5456.0, 5472.0, 5373.0, 5440.0, 5467.0, 5638.0, 5414.0, 5260.0, 5458.0, 5508.0, 5539.0, 5610.0, 5698.0, 5615.0, 5374.0 (number of hits: 8)
21	5280	9	1	333	1	5611.0, 5423.0, 5338.0, 5419.0, 5514.0, 5355.0, 5272.0, 5295.0, 5352.0, 5681.0, 5476.0, 5483.0, 5328.0, 5559.0, 5429.0, 5597.0, 5326.0, 5679.0, 5537.0, 5322.0, 5638.0, 5627.0, 5672.0, 5317.0, 5558.0, 5697.0, 5264.0, 5341.0, 5631.0, 5267.0, 5591.0, 5592.0, 5257.0, 5518.0, 5259.0, 5438.0, 5530.0, 5569.0, 5466.0, 5384.0, 5604.0, 5620.0, 5581.0, 5576.0, 5349.0, 5497.0, 5454.0, 5482.0, 5292.0, 5654.0, 5286.0, 5499.0, 5524.0, 5301.0, 5459.0, 5712.0, 5698.0, 5382.0, 5376.0, 5298.0, 5472.0, 5331.0, 5385.0, 5405.0, 5516.0, 5573.0, 5682.0, 5478.0, 5630.0, 5452.0, 5590.0, 5453.0, 5323.0, 5436.0, 5532.0, 5686.0, 5553.0, 5578.0, 5397.0, 5447.0, 5633.0, 5407.0, 5541.0, 5360.0, 5520.0, 5521.0, 5364.0, 5320.0, 5639.0, 5255.0, 5357.0, 5269.0, 5403.0, 5690.0, 5605.0, 5457.0, 5309.0, 5291.0, 5551.0, 5494.0 (number of hits: 7)
22	5280	9	1	333	1	5652.0, 5594.0, 5580.0, 5520.0, 5343.0, 5659.0, 5362.0, 5279.0, 5685.0, 5345.0, 5618.0, 5573.0, 5473.0, 5313.0, 5598.0, 5670.0, 5623.0, 5529.0, 5308.0, 5323.0, 5402.0, 5642.0, 5424.0, 5694.0, 5486.0, 5481.0, 5651.0, 5369.0, 5538.0, 5515.0, 5342.0, 5668.0, 5427.0, 5339.0, 5695.0, 5649.0, 5543.0, 5545.0, 5622.0, 5641.0, 5518.0, 5600.0, 5533.0, 5461.0, 5348.0, 5503.0, 5546.0, 5559.0, 5523.0, 5451.0, 5665.0, 5271.0, 5536.0, 5298.0, 5303.0, 5443.0, 5374.0, 5522.0, 5459.0, 5359.0, 5275.0, 5254.0, 5472.0, 5321.0, 5708.0, 5338.0, 5407.0, 5585.0, 5521.0, 5698.0, 5411.0, 5703.0, 5655.0, 5588.0, 5681.0, 5532.0, 5326.0, 5401.0, 5455.0, 5280.0, 5630.0, 5607.0, 5346.0, 5489.0, 5581.0, 5444.0, 5360.0, 5419.0, 5293.0, 5291.0, 5713.0, 5325.0, 5396.0, 5389.0, 5723.0, 5300.0, 5286.0, 5287.0, 5544.0, 5433.0 (number of hits: 9)
23	5280	9	1	333	1	5391.0, 5335.0, 5593.0, 5664.0, 5409.0, 5656.0, 5258.0, 5640.0, 5351.0, 5277.0, 5642.0, 5537.0, 5633.0, 5555.0, 5308.0, 5364.0, 5443.0, 5689.0, 5384.0, 5310.0, 5621.0, 5393.0, 5274.0, 5422.0, 5686.0, 5472.0, 5444.0, 5533.0, 5415.0, 5284.0, 5659.0, 5631.0, 5425.0, 5298.0, 5677.0, 5581.0, 5698.0, 5370.0, 5252.0, 5565.0, 5254.0, 5333.0, 5477.0, 5313.0, 5404.0, 5427.0, 5706.0, 5598.0, 5603.0, 5540.0, 5626.0, 5583.0, 5654.0, 5502.0, 5455.0, 5299.0, 5441.0, 5510.0, 5292.0, 5349.0,

						5636.0, 5625.0, 5496.0, 5722.0, 5616.0, 5607.0, 5423.0, 5268.0, 5398.0, 5571.0, 5280.0, 5486.0, 5588.0, 5488.0, 5527.0, 5669.0, 5368.0, 5504.0, 5375.0, 5479.0, 5609.0, 5711.0, 5301.0, 5627.0, 5535.0, 5253.0, 5354.0, 5601.0, 5469.0, 5512.0, 5457.0, 5506.0, 5487.0, 5682.0, 5716.0, 5334.0, 5337.0, 5500.0, 5585.0, 5559.0 (number of hits: 7)
24	5280	9	1	333	1	5263.0, 5482.0, 5571.0, 5398.0, 5711.0, 5542.0, 5688.0, 5343.0, 5627.0, 5356.0, 5673.0, 5503.0, 5611.0, 5336.0, 5275.0, 5694.0, 5566.0, 5651.0, 5654.0, 5698.0, 5306.0, 5659.0, 5273.0, 5598.0, 5320.0, 5390.0, 5348.0, 5662.0, 5706.0, 5455.0, 5722.0, 5303.0, 5453.0, 5295.0, 5251.0, 5472.0, 5553.0, 5697.0, 5385.0, 5436.0, 5254.0, 5373.0, 5381.0, 5386.0, 5564.0, 5569.0, 5417.0, 5328.0, 5554.0, 5657.0, 5701.0, 5359.0, 5285.0, 5413.0, 5360.0, 5511.0, 5426.0, 5369.0, 5326.0, 5649.0, 5538.0, 5653.0, 5705.0, 5550.0, 5349.0, 5663.0, 5634.0, 5560.0, 5262.0, 5297.0, 5410.0, 5258.0, 5397.0, 5530.0, 5557.0, 5261.0, 5363.0, 5290.0, 5514.0, 5371.0, 5597.0, 5703.0, 5683.0, 5322.0, 5573.0, 5454.0, 5438.0, 5519.0, 5464.0, 5607.0, 5549.0, 5510.0, 5695.0, 5475.0, 5458.0, 5389.0, 5471.0, 5664.0, 5347.0, 5723.0 (number of hits: 6)
25	5280	9	1	333	1	5282.0, 5586.0, 5482.0, 5304.0, 5332.0, 5373.0, 5516.0, 5395.0, 5712.0, 5642.0, 5690.0, 5341.0, 5403.0, 5333.0, 5584.0, 5484.0, 5721.0, 5600.0, 5477.0, 5351.0, 5415.0, 5555.0, 5443.0, 5566.0, 5259.0, 5665.0, 5328.0, 5457.0, 5315.0, 5658.0, 5515.0, 5621.0, 5354.0, 5253.0, 5472.0, 5638.0, 5614.0, 5404.0, 5388.0, 5625.0, 5549.0, 5359.0, 5344.0, 5330.0, 5611.0, 5693.0, 5492.0, 5706.0, 5720.0, 5567.0, 5707.0, 5532.0, 5399.0, 5672.0, 5265.0, 5374.0, 5603.0, 5277.0, 5569.0, 5681.0, 5284.0, 5700.0, 5609.0, 5365.0, 5643.0, 5606.0, 5409.0, 5525.0, 5289.0, 5290.0, 5353.0, 5650.0, 5453.0, 5408.0, 5283.0, 5366.0, 5618.0, 5257.0, 5640.0, 5663.0, 5474.0, 5628.0, 5573.0, 5439.0, 5393.0, 5299.0, 5412.0, 5653.0, 5524.0, 5717.0, 5624.0, 5514.0, 5355.0, 5442.0, 5591.0, 5520.0, 5705.0, 5660.0, 5307.0, 5499.0 (number of hits: 5)
26	5280	9	1	333	1	5536.0, 5451.0, 5529.0, 5520.0, 5648.0, 5676.0, 5583.0, 5431.0, 5549.0, 5394.0, 5540.0, 5486.0, 5564.0, 5401.0, 5492.0, 5358.0, 5339.0, 5439.0, 5297.0, 5621.0, 5565.0, 5407.0, 5600.0, 5281.0, 5638.0, 5545.0, 5699.0, 5335.0, 5637.0, 5517.0, 5671.0, 5430.0, 5498.0, 5547.0, 5345.0, 5668.0, 5542.0, 5382.0, 5381.0, 5704.0, 5400.0, 5459.0, 5353.0, 5606.0, 5667.0,

						5647.0, 5256.0, 5679.0, 5418.0, 5501.0, 5461.0, 5455.0, 5666.0, 5611.0, 5412.0, 5433.0, 5698.0, 5475.0, 5580.0, 5434.0, 5629.0, 5298.0, 5465.0, 5693.0, 5413.0, 5528.0, 5508.0, 5341.0, 5553.0, 5322.0, 5419.0, 5491.0, 5588.0, 5619.0, 5716.0, 5311.0, 5625.0, 5285.0, 5607.0, 5375.0, 5595.0, 5253.0, 5572.0, 5377.0, 5635.0, 5700.0, 5495.0, 5692.0, 5714.0, 5483.0, 5577.0, 5555.0, 5702.0, 5646.0, 5280.0, 5484.0, 5550.0, 5289.0, 5469.0, 5708.0 (number of hits: 5)
27	5280	9	1	333	1	5453.0, 5583.0, 5670.0, 5471.0, 5402.0, 5569.0, 5644.0, 5290.0, 5679.0, 5325.0, 5271.0, 5435.0, 5454.0, 5578.0, 5664.0, 5625.0, 5464.0, 5475.0, 5443.0, 5597.0, 5674.0, 5612.0, 5440.0, 5428.0, 5603.0, 5351.0, 5350.0, 5419.0, 5320.0, 5629.0, 5277.0, 5368.0, 5504.0, 5707.0, 5321.0, 5715.0, 5314.0, 5442.0, 5527.0, 5281.0, 5610.0, 5623.0, 5668.0, 5296.0, 5306.0, 5483.0, 5681.0, 5480.0, 5338.0, 5506.0, 5265.0, 5383.0, 5585.0, 5684.0, 5481.0, 5714.0, 5560.0, 5331.0, 5416.0, 5328.0, 5426.0, 5447.0, 5596.0, 5349.0, 5304.0, 5495.0, 5645.0, 5574.0, 5720.0, 5348.0, 5526.0, 5552.0, 5473.0, 5260.0, 5551.0, 5460.0, 5576.0, 5607.0, 5369.0, 5628.0, 5493.0, 5502.0, 5340.0, 5572.0, 5568.0, 5361.0, 5377.0, 5709.0, 5411.0, 5705.0, 5303.0, 5353.0, 5381.0, 5604.0, 5358.0, 5555.0, 5538.0, 5621.0, 5663.0, 5532.0 (number of hits: 6)
28	5280	9	1	333	1	5304.0, 5382.0, 5403.0, 5491.0, 5307.0, 5409.0, 5374.0, 5268.0, 5346.0, 5564.0, 5277.0, 5373.0, 5422.0, 5475.0, 5379.0, 5293.0, 5510.0, 5566.0, 5342.0, 5696.0, 5350.0, 5385.0, 5326.0, 5595.0, 5437.0, 5655.0, 5611.0, 5391.0, 5680.0, 5485.0, 5315.0, 5507.0, 5473.0, 5295.0, 5648.0, 5265.0, 5483.0, 5375.0, 5281.0, 5702.0, 5290.0, 5340.0, 5509.0, 5278.0, 5686.0, 5272.0, 5665.0, 5634.0, 5400.0, 5451.0, 5452.0, 5513.0, 5617.0, 5412.0, 5701.0, 5289.0, 5431.0, 5636.0, 5466.0, 5644.0, 5457.0, 5447.0, 5554.0, 5424.0, 5690.0, 5260.0, 5600.0, 5710.0, 5709.0, 5313.0, 5256.0, 5708.0, 5416.0, 5662.0, 5460.0, 5389.0, 5558.0, 5351.0, 5675.0, 5549.0, 5574.0, 5298.0, 5312.0, 5666.0, 5398.0, 5321.0, 5511.0, 5264.0, 5462.0, 5602.0, 5310.0, 5525.0, 5348.0, 5372.0, 5630.0, 5399.0, 5715.0, 5548.0, 5540.0, 5651.0 (number of hits: 10)
29	5280	9	1	333	1	5714.0, 5485.0, 5386.0, 5587.0, 5494.0, 5384.0, 5621.0, 5481.0, 5486.0, 5681.0, 5434.0, 5269.0, 5713.0, 5342.0, 5394.0, 5529.0, 5392.0, 5666.0, 5293.0, 5449.0, 5498.0, 5613.0, 5292.0, 5670.0, 5334.0, 5561.0, 5521.0, 5580.0, 5497.0, 5662.0,

						5678.0, 5265.0, 5649.0, 5680.0, 5304.0, 5454.0, 5629.0, 5457.0, 5400.0, 5576.0, 5319.0, 5712.0, 5677.0, 5349.0, 5471.0, 5612.0, 5254.0, 5496.0, 5325.0, 5361.0, 5674.0, 5264.0, 5422.0, 5250.0, 5654.0, 5614.0, 5475.0, 5382.0, 5291.0, 5381.0, 5645.0, 5709.0, 5315.0, 5337.0, 5669.0, 5251.0, 5667.0, 5302.0, 5707.0, 5723.0, 5636.0, 5413.0, 5684.0, 5462.0, 5542.0, 5312.0, 5626.0, 5474.0, 5484.0, 5522.0, 5353.0, 5696.0, 5369.0, 5320.0, 5589.0, 5694.0, 5296.0, 5283.0, 5608.0, 5368.0, 5539.0, 5371.0, 5446.0, 5500.0, 5275.0, 5527.0, 5341.0, 5253.0, 5570.0, 5504.0 (number of hits: 7)
30	5280	9	1	333	1	5576.0, 5278.0, 5474.0, 5560.0, 5712.0, 5686.0, 5319.0, 5268.0, 5667.0, 5315.0, 5571.0, 5379.0, 5518.0, 5261.0, 5722.0, 5502.0, 5387.0, 5356.0, 5292.0, 5559.0, 5580.0, 5262.0, 5541.0, 5500.0, 5682.0, 5568.0, 5412.0, 5285.0, 5271.0, 5606.0, 5599.0, 5450.0, 5410.0, 5516.0, 5405.0, 5607.0, 5385.0, 5695.0, 5594.0, 5718.0, 5672.0, 5343.0, 5506.0, 5414.0, 5318.0, 5428.0, 5279.0, 5489.0, 5690.0, 5596.0, 5312.0, 5522.0, 5472.0, 5688.0, 5637.0, 5478.0, 5328.0, 5681.0, 5590.0, 5420.0, 5433.0, 5341.0, 5435.0, 5687.0, 5329.0, 5482.0, 5451.0, 5642.0, 5550.0, 5573.0, 5582.0, 5523.0, 5622.0, 5662.0, 5644.0, 5515.0, 5391.0, 5593.0, 5484.0, 5628.0, 5558.0, 5557.0, 5520.0, 5406.0, 5632.0, 5563.0, 5338.0, 5597.0, 5459.0, 5525.0, 5713.0, 5286.0, 5517.0, 5314.0, 5609.0, 5660.0, 5561.0, 5311.0, 5664.0, 5565.0 (number of hits: 6)

5580 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	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 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5580	18	1	1428	1
2	5580	18	1	1428	1
3	5580	18	1	1428	1
4	5580	18	1	1428	1
5	5580	18	1	1428	1
6	5580	18	1	1428	1
7	5580	18	1	1428	1
8	5580	18	1	1428	1
9	5580	18	1	1428	1
10	5580	18	1	1428	1
11	5580	18	1	1428	1
12	5580	18	1	1428	1
13	5580	18	1	1428	1
14	5580	18	1	1428	1
15	5580	18	1	1428	1
16	5580	18	1	1428	1
17	5580	18	1	1428	1
18	5580	18	1	1428	1
19	5580	18	1	1428	1
20	5580	18	1	1428	1
21	5580	18	1	1428	1
22	5580	18	1	1428	1
23	5580	18	1	1428	1
24	5580	18	1	1428	1
25	5580	18	1	1428	1
26	5580	18	1	1428	1
27	5580	18	1	1428	1
28	5580	18	1	1428	1
29	5580	18	1	1428	1
30	5580	18	1	1428	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	29	3	178	1
2	5580	23	1.8	228	1
3	5580	27	2.9	213	1
4	5580	25	2.5	217	1
5	5580	27	2.1	190	1
6	5580	24	1	207	1
7	5580	25	4.6	204	1
8	5580	26	3	198	1
9	5580	24	4.6	185	1
10	5580	26	4.5	151	1
11	5580	28	3.9	179	1
12	5580	28	1.4	224	1
13	5580	25	5	179	1
14	5580	26	3.2	185	1
15	5580	28	3.7	178	1
16	5580	23	4.1	219	1
17	5580	26	2.4	216	1
18	5580	23	3.2	217	1
19	5580	26	2.4	215	1
20	5580	27	2.2	164	1
21	5580	27	3.5	209	1
22	5580	23	4.1	187	1
23	5580	25	4.3	157	1
24	5580	27	1.7	184	1
25	5580	25	3.7	229	1
26	5580	27	1.9	195	1
27	5580	29	3.5	185	1
28	5580	25	3.2	214	1
29	5580	29	3.8	155	1
30	5580	23	4.5	153	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	457	1
2	5580	18	8.3	421	1
3	5580	18	7	306	1
4	5580	16	7.6	465	1
5	5580	17	6.7	228	1
6	5580	18	6.9	405	1
7	5580	18	8.7	223	1
8	5580	16	7.9	216	1
9	5580	16	8.1	311	1
10	5580	17	9.9	353	1
11	5580	16	6.5	367	1
12	5580	16	7.9	233	1
13	5580	17	9	291	1
14	5580	17	8.4	291	1
15	5580	16	7.4	354	1
16	5580	16	9.5	344	1
17	5580	17	6.4	461	1
18	5580	17	9.6	367	1
19	5580	17	9.4	393	1
20	5580	16	9.6	433	1
21	5580	16	7.6	481	1
22	5580	18	9.3	213	1
23	5580	16	7.2	242	1
24	5580	16	7.7	386	1
25	5580	16	7.4	243	1
26	5580	17	8.1	210	1
27	5580	18	7.7	440	1
28	5580	17	8.8	206	1
29	5580	16	9.5	487	1
30	5580	17	7.3	344	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	13	19.3	375	1
2	5580	14	11.1	375	1
3	5580	16	20	463	1
4	5580	16	14.2	389	1
5	5580	16	18.9	408	1
6	5580	15	14.8	317	1
7	5580	16	12.8	453	1
8	5580	14	13.6	378	1
9	5580	16	11.1	269	1
10	5580	15	13.6	233	1
11	5580	16	17.9	416	1
12	5580	13	11.6	298	1
13	5580	15	12.7	271	1
14	5580	12	14.1	393	1
15	5580	14	18.4	298	1
16	5580	16	11.9	347	1
17	5580	15	11.5	279	1
18	5580	14	14.8	465	1
19	5580	12	14.3	322	1
20	5580	12	15.8	341	1
21	5580	13	18.4	236	1
22	5580	15	17.1	298	1
23	5580	16	16.4	440	1
24	5580	15	16.8	423	1
25	5580	13	18.1	256	1
26	5580	13	18.9	447	1
27	5580	13	15.6	241	1
28	5580	13	14.6	249	1
29	5580	13	15	391	1
30	5580	12	19.2	263	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	3	8	83.5	1821	1876	0.755405	1
1	2	16	92.8	1867		1.159841	
2	2	18	69	1325		2.499497	
3	3	6	57.3	1452	1176	3.30911	
4	3	14	74.2	1238	1011	3.797352	
5	2	20	55.8	1647		4.374308	
6	3	13	99.4	1540	1013	5.669813	
7	2	18	94.6	1373		6.816146	
8	1	11	53.3			7.269052	
9	2	9	78.1	1763		8.20268	
10	1	8	86.1			9.106165	
11	2	18	76.5	1720		10.199977	
12	1	11	60.2			10.928303	
13	1	18	56.2			11.584245	

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	10	74	1040	1710	0.84097	1
1	2	6	98.9	1637		1.411828	
2	2	16	93.1	1343		2.977652	
3	3	12	69	1930	1941	4.011972	
4	2	11	64	1699		4.710998	
5	3	19	65.3	1365	1383	6.503842	
6	2	15	52.4	1778		7.080558	
7	2	15	80.4	1058		7.71756	
8	2	19	80.2	1977		9.54753	
9	1	7	56			10.320067	
10	2	7	98.8	1718		11.040953	

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	1	14	90.2			0.525373	
1	2	15	98.5	1591		1.733626	
2	2	16	58.1	1106		2.820625	
3	2	5	93.2	1577		4.646307	
4	3	9	62.5	1388	1007	5.538895	1
5	2	18	60.9	1494		7.971547	
6	3	15	99.1	1803	1476	8.60896	
7	1	17	74.8			10.113287	
8	2	17	67.4	1972		11.536118	

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	16	62.7	1164		0.746198	
1	3	6	69.2	1197	1061	1.102969	
2	2	17	53.5	1522		2.208698	
3	2	20	98	1248		3.293974	
4	2	5	58.7	1613		4.409878	
5	3	20	62.4	1466	1432	5.449616	
6	1	14	60.1			6.15067	1
7	2	15	52.7	1986		6.613744	
8	1	11	74.3			7.645143	
9	2	10	76.3	1533		9.079168	
10	2	13	85.4	1969		9.87413	
11	1	16	53.4			10.768107	
12	1	17	68.8			11.423255	

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	12	91.9			0.587121	1
1	3	20	71.1	1806	1034	1.11258	
2	1	5	62.2			2.238216	
3	2	9	73.8	1087		2.600867	
4	1	7	77.6			3.429139	
5	2	5	84.7	1614		4.951765	
6	2	14	70.8	1949		5.453699	
7	3	6	53.8	1685	1498	6.650078	
8	2	10	93.8	1665		7.265323	
9	3	20	58.6	1956	1815	8.362239	
10	2	10	56.9	1666		8.838084	
11	2	9	70.8	1254		9.648023	
12	1	20	78.2			10.888208	
13	2	15	90.4	1828		11.857241	

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	19	96.2			0.178406	1
1	2	15	90.6	1473		1.204672	
2	2	8	93.8	1276		1.662503	
3	2	8	58.9	1230		2.545009	
4	2	15	90.8	1736		3.484575	
5	3	11	67.9	1230	1794	4.051912	
6	2	10	84.7	1635		4.336857	
7	2	16	59.7	1882		5.285761	
8	1	11	63.3			5.733527	
9	2	20	83.6	1141		6.853427	
10	3	9	82.5	1860	1335	7.153945	
11	2	19	53.9	1086		8.409456	
12	1	10	54.8			8.823368	
13	2	9	66.8	1943		9.581619	
14	1	11	84.2			10.331771	
15	2	17	88.9	1306		10.781162	

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	11	73.6	1698		0.591649	
1	2	10	86.7	1473		1.597724	
2	2	15	90.2	1322		2.2179	
3	3	14	73	1465	1700	3.287468	
4	2	5	65.8	1328		4.566375	
5	2	20	82.1	1917		4.832097	
6	1	20	57.4			5.925585	1
7	1	12	85.4			6.710728	
8	2	12	68.1	1412		7.927718	
9	2	5	69.6	1918		8.760583	
10	2	19	56.1	1436		9.545849	
11	3	18	73.8	1394	1970	10.268596	
12	1	19	69.7			11.916174	

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	1	18	93.7			0.592242	
1	1	9	52.2			1.104118	
2	1	18	58.8			1.287722	
3	2	8	77.2	1464		2.399496	
4	2	18	63.2	1428		2.83123	
5	3	14	81.2	1372	1615	3.658066	
6	3	10	55	1282	1452	4.395372	
7	2	19	91.8	1040		4.724449	
8	2	9	66.1	1966		5.264847	
9	2	18	50.2	1021		5.957963	1
10	3	17	88.7	1400	1840	6.710714	
11	2	17	99.1	1262		7.14631	
12	3	8	84.9	1911	1801	7.745515	
13	2	16	60	1525		8.717827	
14	3	17	59.4	1530	1030	9.461002	
15	1	18	58			9.519442	
16	1	14	71.1			10.579743	
17	1	18	59.3			11.015324	
18	2	17	54.7	1866		11.902604	

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	1	12	73.8			0.579892	1
1	2	17	68.8	1525		1.374657	
2	1	16	79.6			1.579913	
3	2	14	80.9	1593		2.819043	
4	3	19	98.1	1631	1692	3.25379	
5	2	9	88.3	1845		3.82907	
6	2	18	84	1913		4.91823	
7	1	15	88.5			5.399954	
8	3	13	50.2	1554	1988	6.04177	
9	1	10	68.6			7.470151	
10	2	18	65.2	1835		7.61552	
11	3	16	52.5	1491	1265	8.732283	
12	1	10	71.1			9.333326	
13	2	8	86.6	1635		10.48242	
14	1	12	67.8			11.081465	
15	3	6	55	1656	1599	11.295746	

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	15	62.8	1432		0.79365	1
1	2	14	63.9	1767		2.377159	
2	3	14	64.7	1202	1988	2.522394	
3	2	17	92.3	1855		4.254034	
4	1	9	80.2			5.474444	
5	1	8	82.8			6.557584	
6	2	7	84.8	1033		7.967031	
7	2	7	68.5	1147		8.589594	
8	2	12	79.6	1893		9.670272	
9	1	8	72.3			10.935717	

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	15	51.7			0.717505	1
1	2	17	87.3	1568		1.339136	
2	3	13	99	1803	1243	1.658901	
3	3	12	87.7	1708	1265	2.390637	
4	2	17	84.4	1440		3.255716	
5	3	13	85	1230	1201	4.213836	
6	1	18	56.3			4.58618	
7	1	17	65.2			5.734405	
8	2	5	57.6	1907		6.501048	
9	2	12	71.9	1823		7.146414	
10	1	9	82			7.737919	
11	2	19	56	1090		8.419867	
12	1	15	75			9.153155	
13	3	18	85.5	1166	1241	10.162161	
14	3	16	68.2	1694	1027	10.68379	
15	3	19	87.1	1046	1487	11.431423	

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	11	81.9	1216		0.688536	1
1	1	11	87.1			1.770964	
2	1	6	97.8			2.882639	
3	1	6	64			3.979242	
4	3	15	74.9	1907	1862	4.769285	
5	2	8	78.2	1563		5.014129	
6	3	6	89.1	1783	1780	6.251554	
7	2	7	86.3	1427		7.12609	
8	2	14	72.5	1695		8.83013	
9	2	9	79.2	1677		9.716541	
10	3	14	81.5	1558	1325	10.023435	
11	3	13	88	1323	1210	11.795753	

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	7	51.2	1098		0.050235	
1	2	7	80.3	1585		1.670581	
2	3	15	93.8	1426	1290	3.691816	
3	3	18	98	1217	1780	4.241696	
4	3	6	82.8	1870	1928	6.566634	1
5	1	18	52			7.380573	
6	2	13	87.4	1593		8.801828	
7	2	11	98.8	1182		9.667107	
8	2	6	66.3	1253		11.59678	

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	7	68.4	1048	1526	0.319854	
1	2	19	80.8	1649		0.768684	
2	2	10	67.5	1214		1.666203	
3	2	16	80.4	1952		2.425381	
4	2	7	53.4	1988		2.885457	
5	1	15	53.5			3.928502	
6	2	6	75.6	1034		4.610172	
7	1	16	62.1			5.426872	
8	1	20	63.5			6.324739	1
9	3	12	90.7	1441	1659	6.909284	
10	2	9	78.1	1881		7.722474	
11	3	19	83.8	1201	1399	8.123974	
12	2	20	74.5	1174		9.056247	
13	2	10	82.7	1671		9.824192	
14	2	10	78.7	1540		10.2856	
15	2	14	72.2	1624		10.762691	
16	1	13	87.6			11.919488	

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	11	78.1	1166	1183	0.637313	1
1	1	16	63.5			1.193101	
2	1	5	62.3			1.771044	
3	2	14	94.4	1151		2.385155	
4	1	9	74.9			3.088986	
5	1	17	51.6			3.948353	
6	1	15	96.4			4.341227	
7	3	11	90.2	1683	1164	5.079354	
8	2	20	62.6	1170		5.351313	
9	1	19	95.2			6.062514	
10	2	16	80.4	1362		6.706909	
11	3	6	86.1	1999	1656	7.549368	
12	1	13	80.8			8.405248	
13	2	9	78	1002		8.689736	
14	2	17	83.9	1696		9.868843	
15	2	18	53.3	1094		10.184608	
16	3	5	85.1	1121	1803	11.261581	
17	3	8	91.2	1003	1900	11.786537	

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	7	54.1	1723		0.744485	1
1	2	12	50.4	1606		1.732517	
2	2	16	88.7	1894		3.040463	
3	2	11	89.8	1987		4.328496	
4	2	13	80.5	1887		4.963813	
5	1	8	75.7			6.816008	
6	1	19	85.1			7.621461	
7	3	9	66.6	1948	1824	9.328949	
8	2	8	54.8	1688		10.601289	
9	3	15	93.8	1839	1331	11.393038	

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	6	62.5			0.100992	1
1	2	17	56.2	1951		1.428725	
2	2	15	84.7	1541		2.263946	
3	2	10	94.7	1458		3.009833	
4	2	11	83.2	1333		3.873992	
5	1	18	59.3			4.636365	
6	3	13	76.5	1682	1595	5.415592	
7	2	5	67.9	1301		6.533035	
8	1	17	52.8			6.872897	
9	2	5	53.4	1499		7.842056	
10	2	19	73.9	1267		8.676016	
11	2	9	96.8	1426		10.016398	
12	3	16	73	1651	1988	10.423773	
13	1	11	73.5			11.412647	

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	15	64.2	1640		0.878479	1
1	1	12	83.5			1.245485	
2	2	9	79.3	1722		2.384657	
3	1	19	50.7			3.647837	
4	2	5	75.3	1274		4.267603	
5	2	8	86.3	1273		5.978079	
6	2	10	97.9	1421		6.018379	
7	1	16	60.8			7.208875	
8	3	18	89.2	1463	1882	8.417134	
9	2	19	77.6	1402		9.3345	
10	2	6	94.7	1091		10.354478	
11	3	12	68.3	1089	1294	11.006028	

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	11	89.4	1800		0.017051	1
1	2	8	74.4	1541		2.031683	
2	2	12	77.4	1053		3.366297	
3	2	17	93.7	1155		4.227153	
4	3	13	60	1922	1146	5.166639	
5	3	17	62.1	1393	1367	6.106234	
6	3	17	73.4	1676	1917	8.342196	
7	1	9	65.5			9.193187	
8	2	6	58.9	1267		10.650732	
9	3	7	59.3	1426	1103	11.3875	

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	1	7	80.5			0.206715	1
1	3	9	54.1	1608	1597	1.134468	
2	1	12	99.1			1.5322	
3	2	5	84.9	1827		2.655138	
4	2	20	97.2	1022		3.22922	
5	3	7	55.5	1873	1490	3.592866	
6	2	16	73.4	1545		4.415	
7	2	8	83.8	1092		5.359071	
8	2	20	65.5	1694		5.845449	
9	3	17	82.7	1740	1774	6.850017	
10	2	13	59.7	1525		7.414909	
11	2	14	92.2	1943		8.132893	
12	1	17	51.3			8.592096	
13	2	9	51.8	1441		9.518408	
14	1	19	97.5			10.517383	
15	2	17	51.4	1136		10.907346	
16	2	19	71.2	1474		11.648295	

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	6	51.5	1638	1104	0.112511	
1	2	18	86	1101		2.256571	
2	1	5	65.2			3.957451	
3	2	6	86.3	1399		4.576025	
4	2	17	75.7	1155		5.829532	1
5	1	12	65.5			7.734143	
6	1	10	92.7			8.945412	
7	2	11	52.3	1585		9.567655	
8	2	18	57.6	1632		11.888277	

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	18	69.6	1365		0.268471	
1	2	13	73.2	1001		0.778714	
2	3	11	55.9	1790	1967	1.613331	
3	3	16	91.7	1578	1256	2.476033	
4	1	11	52.3			3.490017	
5	2	13	65	1533		4.354431	
6	1	13	52.9			4.72281	
7	2	6	55.7	1291		5.344666	
8	2	17	89.1	1340		6.687941	1
9	3	19	50.7	1974	1544	7.440214	
10	2	10	76.1	1199		7.798132	
11	3	18	78.1	1649	1853	8.561409	
12	2	18	98.1	1635		9.345103	
13	2	8	95.9	1765		9.843419	
14	2	15	95.7	1380		11.151531	
15	2	9	57.4	1162		11.663672	

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	5	96.5	1002		0.317749	
1	2	14	55.2	1663		1.991525	
2	2	7	87.7	1112		2.261638	
3	1	12	75.4			3.897113	
4	2	17	59.2	1552		5.022934	
5	2	18	63.1	1746		6.291155	1
6	1	9	90.2			6.877656	
7	3	15	83.8	1003	1545	8.152805	
8	2	17	59.9	1783		8.886753	
9	3	8	88.5	1138	1190	10.884645	
10	2	19	70.9	1470		11.316235	

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	7	72.6	1762	1827	0.837075	
1	3	10	99.7	1280	1145	1.409341	
2	2	5	87.3	1852		2.335693	
3	3	20	54.6	1607	1088	3.301719	
4	3	7	75.8	2000	1912	4.436878	
5	1	7	57.3			4.773609	
6	2	14	92.4	1045		6.413889	1
7	2	18	92.7	1210		7.297222	
8	2	19	62.5	1800		7.913369	
9	1	10	51.2			9.184469	
10	2	13	50.5	1188		9.447848	
11	3	7	93.3	1098	1981	10.661711	
12	3	17	79.1	1133	1369	11.339981	

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	14	80.3	1004		0.841213	
1	2	7	68.8	1229		1.176555	
2	2	12	71.1	1811		2.540634	
3	3	15	93.9	1320	1360	4.198737	
4	2	7	96.5	1851		5.222774	
5	1	13	98.3			6.259097	1
6	2	14	65.5	1042		7.124949	
7	1	5	79.4			7.747063	
8	2	11	64.7	1296		9.377127	
9	1	16	79.6			10.679496	
10	2	6	97.7	1738		11.353	

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	12	75.8	1688		0.121589	
1	2	17	79.6	1113		1.026863	
2	2	18	69.1	1711		1.500618	
3	3	19	79.3	1578	1326	2.021692	
4	1	16	85.6			3.101025	
5	3	11	97.1	1109	1704	3.179738	
6	2	10	52.9	1056		3.987949	
7	2	19	59.4	1257		4.910492	
8	2	20	67.5	1884		5.59402	
9	2	15	62.5	1671		6.252566	1
10	2	7	61.5	1283		6.518124	
11	2	7	86.3	1491		7.556447	
12	3	9	96.6	1397	1344	7.760027	
13	2	16	70.7	1671		8.438381	
14	1	15	54.8			9.264245	
15	2	13	52.4	1945		9.505744	
16	2	20	93.4	1771		10.520367	
17	1	19	80.6			10.992017	
18	3	12	71.8	1248	1293	11.462775	

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	9	57	1229		0.257085	
1	3	19	70.5	1662	1847	1.156616	
2	1	8	69.5			1.704066	
3	1	16	58			2.070152	
4	2	7	56.3	1278		2.831422	
5	2	14	62.7	1963		3.183012	
6	2	16	91.7	1606		4.381319	
7	1	6	61.3			4.704194	
8	2	16	86.4	1091		5.382088	
9	1	12	54.1			5.795902	1
10	3	10	59.2	1169	1438	6.776877	
11	2	10	64.5	1513		7.021867	
12	2	6	90.8	1256		7.633377	
13	1	14	79.4			8.341676	
14	3	15	67.7	1501	1735	8.963806	
15	1	18	54.9			9.577031	
16	3	6	53.4	1430	1396	10.591576	
17	2	8	66	1920		10.844428	
18	1	14	57.5			11.56565	

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	14	68.8			0.246644	
1	1	18	54.7			1.462249	
2	2	15	87	1419		2.386127	
3	3	6	53.5	1038	1359	3.206949	
4	1	12	68.9			4.035912	
5	3	5	53.9	1791	1602	5.084037	
6	1	15	84.4			5.765816	
7	2	8	97.1	1136		6.418492	1
8	2	11	74.8	1504		7.206809	
9	3	10	91.3	1724	1683	7.971919	
10	2	16	56.2	1856		8.798025	
11	3	5	51.4	1030	1065	10.265457	
12	2	17	67.6	1796		10.908861	
13	2	18	91.6	1110		11.337943	

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	17	54.2	1501	1528	0.663551	
1	3	16	75.3	1041	1047	1.173009	
2	2	11	85.6	1281		1.918199	
3	2	19	97.5	1378		2.329764	
4	2	8	55.1	1896		3.093004	
5	2	13	85.6	1992		3.803108	
6	1	12	83.3			4.444981	
7	2	16	62.2	1946		5.520454	
8	3	15	78	1318	1549	6.165589	1
9	3	13	89.5	1806	1336	6.965195	
10	2	6	98.6	1173		7.477673	
11	2	8	67.6	1048		8.336768	
12	3	5	57.1	1949	1988	8.677608	
13	3	15	54	1750	1974	9.745426	
14	3	19	76	1443	1678	10.013209	
15	2	10	60.9	1127		11.155761	
16	2	18	66.5	1856		11.706815	

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	13	65.4			0.649782	
1	1	17	95.9			1.824941	
2	2	11	58.8	1074		1.927251	
3	1	7	93.2			3.589833	
4	2	13	84.4	1417		3.70515	
5	3	8	95.3	1678	1440	4.94066	
6	3	9	72.2	1402	1137	6.419463	1
7	1	17	94.9			7.195476	
8	3	14	90.3	1517	1137	8.110628	
9	2	17	82.3	1290		8.388719	
10	2	8	98.8	1378		9.358515	
11	2	11	96.2	1279		10.756741	
12	1	19	77.1			11.257029	

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	5289.0, 5532.0, 5414.0, 5325.0, 5644.0, 5491.0, 5320.0, 5613.0, 5254.0, 5460.0, 5496.0, 5542.0, 5708.0, 5349.0, 5397.0, 5687.0, 5506.0, 5571.0, 5264.0, 5367.0, 5301.0, 5541.0, 5534.0, 5573.0, 5375.0, 5517.0, 5682.0, 5361.0, 5567.0, 5378.0, 5696.0, 5353.0, 5686.0, 5501.0, 5345.0, 5306.0, 5402.0, 5533.0, 5554.0, 5473.0, 5416.0, 5443.0, 5632.0, 5647.0, 5593.0, 5558.0, 5563.0, 5485.0, 5468.0, 5683.0, 5300.0, 5364.0, 5607.0, 5583.0, 5476.0, 5424.0, 5522.0, 5319.0, 5719.0, 5398.0, 5409.0, 5513.0, 5400.0, 5645.0, 5484.0, 5390.0, 5343.0, 5548.0, 5585.0, 5334.0, 5578.0, 5357.0, 5410.0, 5584.0, 5666.0, 5418.0, 5333.0, 5428.0, 5492.0, 5526.0, 5623.0, 5707.0, 5631.0, 5604.0, 5717.0, 5384.0, 5555.0, 5327.0, 5576.0, 5603.0, 5630.0, 5681.0, 5559.0, 5511.0, 5439.0, 5423.0, 5712.0, 5591.0, 5521.0, 5430.0 (number of hits: 4)
2	5580	9	1	333	1	5492.0, 5573.0, 5452.0, 5252.0, 5574.0, 5685.0, 5606.0, 5408.0, 5497.0, 5638.0, 5292.0, 5470.0, 5630.0, 5320.0, 5376.0, 5592.0, 5436.0, 5722.0, 5600.0, 5459.0, 5397.0, 5679.0, 5698.0, 5364.0, 5673.0, 5558.0, 5605.0, 5353.0, 5496.0, 5432.0, 5270.0, 5616.0, 5365.0, 5609.0, 5430.0, 5571.0, 5297.0, 5380.0, 5356.0, 5534.0, 5555.0, 5511.0, 5444.0, 5516.0, 5312.0, 5519.0, 5446.0, 5506.0, 5634.0, 5717.0, 5627.0, 5541.0, 5637.0, 5443.0, 5700.0, 5508.0, 5642.0, 5392.0, 5598.0, 5294.0, 5505.0, 5563.0, 5699.0, 5287.0, 5718.0, 5451.0, 5676.0, 5694.0, 5628.0, 5360.0, 5331.0, 5494.0, 5484.0, 5347.0, 5495.0, 5304.0, 5300.0, 5382.0, 5335.0, 5413.0, 5651.0, 5337.0, 5677.0, 5490.0, 5557.0, 5477.0, 5318.0, 5309.0, 5554.0, 5435.0, 5339.0, 5310.0, 5559.0, 5499.0, 5617.0, 5367.0, 5348.0, 5411.0, 5654.0, 5520.0 (number of hits: 9)
3	5580	9	1	333	1	5660.0, 5265.0, 5439.0, 5460.0, 5309.0, 5366.0, 5682.0, 5266.0, 5715.0, 5530.0, 5515.0, 5285.0, 5557.0, 5295.0, 5503.0, 5548.0, 5614.0, 5545.0, 5402.0, 5597.0, 5381.0, 5343.0, 5397.0, 5688.0, 5445.0, 5572.0, 5626.0, 5486.0, 5576.0, 5702.0, 5289.0, 5613.0, 5428.0, 5340.0, 5316.0, 5653.0, 5633.0, 5412.0, 5349.0, 5263.0, 5723.0, 5291.0, 5469.0, 5651.0, 5258.0, 5604.0, 5639.0, 5305.0, 5409.0, 5471.0, 5467.0, 5400.0, 5677.0, 5448.0, 5568.0, 5423.0, 5383.0, 5365.0, 5533.0, 5571.0,

						5583.0, 5538.0, 5569.0, 5692.0, 5552.0, 5442.0, 5586.0, 5519.0, 5449.0, 5714.0, 5410.0, 5401.0, 5673.0, 5664.0, 5472.0, 5251.0, 5479.0, 5323.0, 5257.0, 5301.0, 5595.0, 5690.0, 5345.0, 5657.0, 5510.0, 5370.0, 5435.0, 5689.0, 5694.0, 5605.0, 5559.0, 5668.0, 5646.0, 5347.0, 5290.0, 5333.0, 5426.0, 5585.0, 5508.0, 5379.0 (number of hits: 8)
4	5580	9	1	333	1	5382.0, 5614.0, 5574.0, 5589.0, 5364.0, 5380.0, 5343.0, 5624.0, 5337.0, 5389.0, 5675.0, 5262.0, 5350.0, 5442.0, 5330.0, 5310.0, 5626.0, 5688.0, 5272.0, 5363.0, 5374.0, 5632.0, 5530.0, 5418.0, 5372.0, 5540.0, 5322.0, 5426.0, 5513.0, 5434.0, 5699.0, 5401.0, 5547.0, 5521.0, 5566.0, 5410.0, 5425.0, 5671.0, 5254.0, 5469.0, 5361.0, 5274.0, 5461.0, 5394.0, 5475.0, 5417.0, 5309.0, 5258.0, 5349.0, 5255.0, 5653.0, 5328.0, 5648.0, 5321.0, 5273.0, 5375.0, 5400.0, 5498.0, 5275.0, 5471.0, 5287.0, 5484.0, 5479.0, 5522.0, 5523.0, 5550.0, 5640.0, 5373.0, 5387.0, 5257.0, 5636.0, 5354.0, 5359.0, 5689.0, 5423.0, 5628.0, 5554.0, 5315.0, 5552.0, 5402.0, 5415.0, 5601.0, 5392.0, 5251.0, 5722.0, 5580.0, 5713.0, 5682.0, 5672.0, 5356.0, 5376.0, 5518.0, 5662.0, 5413.0, 5704.0, 5365.0, 5252.0, 5313.0, 5531.0, 5489.0 (number of hits: 4)
5	5580	9	1	333	1	5287.0, 5556.0, 5635.0, 5535.0, 5573.0, 5482.0, 5457.0, 5598.0, 5452.0, 5335.0, 5338.0, 5574.0, 5702.0, 5487.0, 5370.0, 5671.0, 5345.0, 5339.0, 5405.0, 5262.0, 5256.0, 5525.0, 5706.0, 5478.0, 5587.0, 5636.0, 5626.0, 5603.0, 5263.0, 5276.0, 5628.0, 5546.0, 5445.0, 5261.0, 5418.0, 5512.0, 5359.0, 5447.0, 5250.0, 5311.0, 5427.0, 5514.0, 5600.0, 5265.0, 5273.0, 5433.0, 5432.0, 5554.0, 5460.0, 5720.0, 5440.0, 5618.0, 5567.0, 5539.0, 5324.0, 5289.0, 5354.0, 5581.0, 5322.0, 5390.0, 5656.0, 5455.0, 5712.0, 5612.0, 5604.0, 5307.0, 5330.0, 5298.0, 5367.0, 5383.0, 5360.0, 5472.0, 5398.0, 5667.0, 5672.0, 5295.0, 5527.0, 5401.0, 5479.0, 5662.0, 5543.0, 5617.0, 5507.0, 5347.0, 5386.0, 5465.0, 5630.0, 5709.0, 5317.0, 5275.0, 5602.0, 5258.0, 5302.0, 5283.0, 5663.0, 5531.0, 5484.0, 5454.0, 5415.0, 5417.0 (number of hits: 7)
6	5580	9	1	333	1	5474.0, 5656.0, 5475.0, 5342.0, 5575.0, 5252.0, 5632.0, 5531.0, 5652.0, 5607.0, 5582.0, 5360.0, 5705.0, 5649.0, 5377.0, 5710.0, 5446.0, 5257.0, 5345.0, 5698.0, 5520.0, 5599.0, 5322.0, 5449.0, 5455.0, 5557.0, 5505.0, 5371.0, 5689.0, 5551.0, 5417.0, 5368.0, 5720.0, 5304.0, 5471.0, 5502.0, 5495.0, 5565.0, 5636.0, 5435.0, 5418.0, 5444.0, 5333.0, 5271.0, 5672.0,

						5287.0, 5364.0, 5621.0, 5301.0, 5493.0, 5616.0, 5499.0, 5697.0, 5363.0, 5665.0, 5521.0, 5324.0, 5308.0, 5441.0, 5367.0, 5386.0, 5445.0, 5404.0, 5488.0, 5339.0, 5703.0, 5335.0, 5332.0, 5714.0, 5691.0, 5685.0, 5462.0, 5277.0, 5507.0, 5547.0, 5424.0, 5549.0, 5664.0, 5704.0, 5668.0, 5265.0, 5251.0, 5577.0, 5522.0, 5411.0, 5327.0, 5323.0, 5289.0, 5708.0, 5432.0, 5467.0, 5468.0, 5382.0, 5374.0, 5659.0, 5457.0, 5550.0, 5484.0, 5390.0, 5545.0 (number of hits: 5)
7	5580	9	1	333	1	5604.0, 5632.0, 5384.0, 5683.0, 5464.0, 5637.0, 5592.0, 5556.0, 5524.0, 5696.0, 5391.0, 5385.0, 5265.0, 5435.0, 5457.0, 5448.0, 5609.0, 5541.0, 5708.0, 5469.0, 5348.0, 5486.0, 5665.0, 5454.0, 5553.0, 5636.0, 5343.0, 5446.0, 5438.0, 5572.0, 5478.0, 5684.0, 5398.0, 5655.0, 5463.0, 5321.0, 5595.0, 5700.0, 5614.0, 5587.0, 5539.0, 5511.0, 5594.0, 5552.0, 5281.0, 5509.0, 5516.0, 5500.0, 5640.0, 5716.0, 5558.0, 5326.0, 5724.0, 5367.0, 5501.0, 5436.0, 5521.0, 5254.0, 5586.0, 5653.0, 5421.0, 5476.0, 5377.0, 5686.0, 5380.0, 5330.0, 5302.0, 5499.0, 5376.0, 5477.0, 5276.0, 5439.0, 5333.0, 5638.0, 5533.0, 5370.0, 5530.0, 5504.0, 5317.0, 5473.0, 5262.0, 5344.0, 5403.0, 5495.0, 5584.0, 5613.0, 5354.0, 5577.0, 5270.0, 5555.0, 5340.0, 5315.0, 5251.0, 5654.0, 5420.0, 5691.0, 5715.0, 5591.0, 5598.0, 5422.0 (number of hits: 1)
8	5580	9	1	333	1	5353.0, 5622.0, 5523.0, 5407.0, 5513.0, 5385.0, 5615.0, 5507.0, 5326.0, 5339.0, 5270.0, 5574.0, 5397.0, 5538.0, 5595.0, 5621.0, 5567.0, 5283.0, 5697.0, 5644.0, 5401.0, 5530.0, 5585.0, 5618.0, 5502.0, 5612.0, 5334.0, 5627.0, 5405.0, 5687.0, 5551.0, 5492.0, 5550.0, 5495.0, 5321.0, 5608.0, 5262.0, 5631.0, 5274.0, 5572.0, 5715.0, 5330.0, 5531.0, 5718.0, 5319.0, 5309.0, 5610.0, 5390.0, 5420.0, 5677.0, 5422.0, 5344.0, 5651.0, 5411.0, 5481.0, 5633.0, 5555.0, 5588.0, 5439.0, 5486.0, 5473.0, 5375.0, 5458.0, 5599.0, 5638.0, 5679.0, 5669.0, 5512.0, 5278.0, 5373.0, 5446.0, 5307.0, 5290.0, 5670.0, 5443.0, 5562.0, 5466.0, 5579.0, 5295.0, 5712.0, 5259.0, 5440.0, 5280.0, 5516.0, 5255.0, 5707.0, 5318.0, 5477.0, 5532.0, 5277.0, 5368.0, 5340.0, 5379.0, 5571.0, 5650.0, 5601.0, 5490.0, 5427.0, 5412.0, 5656.0 (number of hits: 4)
9	5580	9	1	333	1	5510.0, 5346.0, 5573.0, 5514.0, 5651.0, 5410.0, 5293.0, 5517.0, 5479.0, 5576.0, 5313.0, 5333.0, 5687.0, 5252.0, 5334.0, 5310.0, 5668.0, 5255.0, 5511.0, 5569.0, 5379.0, 5311.0, 5271.0, 5512.0, 5537.0, 5565.0, 5339.0, 5583.0, 5703.0, 5256.0,

						5594.0, 5697.0, 5298.0, 5708.0, 5644.0, 5472.0, 5694.0, 5547.0, 5335.0, 5555.0, 5447.0, 5305.0, 5702.0, 5265.0, 5325.0, 5444.0, 5454.0, 5546.0, 5628.0, 5430.0, 5541.0, 5643.0, 5536.0, 5414.0, 5270.0, 5524.0, 5289.0, 5370.0, 5319.0, 5677.0, 5523.0, 5532.0, 5557.0, 5617.0, 5622.0, 5411.0, 5452.0, 5638.0, 5400.0, 5635.0, 5415.0, 5394.0, 5590.0, 5326.0, 5422.0, 5678.0, 5292.0, 5606.0, 5646.0, 5482.0, 5308.0, 5329.0, 5443.0, 5529.0, 5260.0, 5263.0, 5467.0, 5354.0, 5674.0, 5427.0, 5544.0, 5449.0, 5604.0, 5578.0, 5362.0, 5437.0, 5600.0, 5267.0, 5464.0, 5522.0 (number of hits: 9)
10	5580	9	1	333	1	5275.0, 5580.0, 5563.0, 5603.0, 5575.0, 5534.0, 5463.0, 5301.0, 5328.0, 5472.0, 5322.0, 5347.0, 5388.0, 5313.0, 5501.0, 5353.0, 5615.0, 5705.0, 5490.0, 5625.0, 5560.0, 5267.0, 5401.0, 5281.0, 5564.0, 5723.0, 5378.0, 5605.0, 5521.0, 5687.0, 5543.0, 5487.0, 5408.0, 5616.0, 5529.0, 5692.0, 5690.0, 5621.0, 5634.0, 5446.0, 5663.0, 5279.0, 5250.0, 5362.0, 5568.0, 5412.0, 5292.0, 5351.0, 5254.0, 5471.0, 5552.0, 5557.0, 5623.0, 5440.0, 5656.0, 5465.0, 5593.0, 5527.0, 5633.0, 5549.0, 5461.0, 5666.0, 5536.0, 5271.0, 5308.0, 5462.0, 5331.0, 5511.0, 5555.0, 5722.0, 5375.0, 5252.0, 5531.0, 5469.0, 5653.0, 5306.0, 5376.0, 5458.0, 5285.0, 5712.0, 5695.0, 5637.0, 5330.0, 5696.0, 5423.0, 5282.0, 5473.0, 5410.0, 5307.0, 5294.0, 5382.0, 5314.0, 5682.0, 5383.0, 5510.0, 5636.0, 5357.0, 5437.0, 5393.0, 5720.0 (number of hits: 9)
11	5580	9	1	333	1	5361.0, 5253.0, 5609.0, 5436.0, 5348.0, 5525.0, 5633.0, 5642.0, 5377.0, 5723.0, 5606.0, 5438.0, 5540.0, 5629.0, 5670.0, 5509.0, 5646.0, 5440.0, 5481.0, 5279.0, 5413.0, 5566.0, 5402.0, 5268.0, 5306.0, 5284.0, 5630.0, 5356.0, 5498.0, 5470.0, 5669.0, 5394.0, 5309.0, 5551.0, 5535.0, 5340.0, 5659.0, 5351.0, 5596.0, 5703.0, 5692.0, 5607.0, 5395.0, 5563.0, 5371.0, 5420.0, 5367.0, 5682.0, 5673.0, 5360.0, 5662.0, 5668.0, 5388.0, 5697.0, 5255.0, 5597.0, 5676.0, 5617.0, 5396.0, 5321.0, 5595.0, 5273.0, 5359.0, 5347.0, 5685.0, 5621.0, 5567.0, 5429.0, 5627.0, 5537.0, 5651.0, 5439.0, 5581.0, 5628.0, 5392.0, 5554.0, 5407.0, 5556.0, 5282.0, 5508.0, 5444.0, 5679.0, 5276.0, 5569.0, 5338.0, 5334.0, 5416.0, 5286.0, 5635.0, 5511.0, 5289.0, 5709.0, 5690.0, 5555.0, 5314.0, 5671.0, 5437.0, 5557.0, 5502.0, 5310.0 (number of hits: 6)
12	5580	9	1	333	1	5303.0, 5662.0, 5704.0, 5398.0, 5652.0, 5265.0, 5601.0, 5369.0, 5356.0, 5292.0, 5474.0, 5626.0, 5275.0, 5655.0, 5259.0,

						5546.0, 5545.0, 5371.0, 5329.0, 5584.0, 5675.0, 5690.0, 5438.0, 5642.0, 5348.0, 5634.0, 5656.0, 5716.0, 5424.0, 5250.0, 5264.0, 5406.0, 5441.0, 5686.0, 5638.0, 5485.0, 5386.0, 5404.0, 5515.0, 5252.0, 5330.0, 5453.0, 5493.0, 5603.0, 5534.0, 5415.0, 5402.0, 5388.0, 5594.0, 5557.0, 5711.0, 5523.0, 5296.0, 5508.0, 5400.0, 5395.0, 5387.0, 5307.0, 5526.0, 5646.0, 5583.0, 5276.0, 5301.0, 5691.0, 5332.0, 5517.0, 5567.0, 5577.0, 5483.0, 5623.0, 5263.0, 5411.0, 5427.0, 5665.0, 5657.0, 5419.0, 5585.0, 5531.0, 5428.0, 5720.0, 5667.0, 5347.0, 5309.0, 5286.0, 5558.0, 5376.0, 5570.0, 5433.0, 5650.0, 5609.0, 5317.0, 5436.0, 5346.0, 5651.0, 5495.0, 5304.0, 5368.0, 5606.0, 5313.0, 5676.0 (number of hits: 9)
13	5580	9	1	333	1	5444.0, 5508.0, 5687.0, 5689.0, 5349.0, 5681.0, 5251.0, 5522.0, 5537.0, 5697.0, 5568.0, 5515.0, 5281.0, 5283.0, 5705.0, 5585.0, 5711.0, 5437.0, 5570.0, 5552.0, 5286.0, 5655.0, 5680.0, 5618.0, 5294.0, 5252.0, 5470.0, 5417.0, 5533.0, 5666.0, 5434.0, 5712.0, 5361.0, 5308.0, 5563.0, 5553.0, 5513.0, 5500.0, 5435.0, 5535.0, 5481.0, 5263.0, 5296.0, 5372.0, 5382.0, 5672.0, 5623.0, 5643.0, 5592.0, 5582.0, 5615.0, 5699.0, 5271.0, 5424.0, 5426.0, 5708.0, 5362.0, 5677.0, 5393.0, 5326.0, 5279.0, 5610.0, 5620.0, 5384.0, 5463.0, 5558.0, 5527.0, 5332.0, 5428.0, 5438.0, 5609.0, 5436.0, 5607.0, 5291.0, 5601.0, 5686.0, 5356.0, 5397.0, 5447.0, 5304.0, 5407.0, 5596.0, 5652.0, 5289.0, 5266.0, 5475.0, 5517.0, 5603.0, 5328.0, 5549.0, 5675.0, 5262.0, 5545.0, 5598.0, 5278.0, 5338.0, 5670.0, 5693.0, 5383.0, 5270.0 (number of hits: 7)
14	5580	9	1	333	1	5438.0, 5329.0, 5528.0, 5263.0, 5618.0, 5659.0, 5484.0, 5562.0, 5381.0, 5308.0, 5361.0, 5697.0, 5708.0, 5476.0, 5493.0, 5276.0, 5636.0, 5452.0, 5497.0, 5612.0, 5299.0, 5393.0, 5489.0, 5544.0, 5663.0, 5314.0, 5288.0, 5640.0, 5478.0, 5642.0, 5696.0, 5451.0, 5396.0, 5703.0, 5520.0, 5430.0, 5587.0, 5499.0, 5676.0, 5379.0, 5304.0, 5453.0, 5333.0, 5627.0, 5404.0, 5320.0, 5630.0, 5645.0, 5445.0, 5406.0, 5353.0, 5521.0, 5296.0, 5367.0, 5654.0, 5371.0, 5603.0, 5287.0, 5328.0, 5464.0, 5637.0, 5579.0, 5702.0, 5557.0, 5362.0, 5500.0, 5623.0, 5511.0, 5269.0, 5492.0, 5397.0, 5673.0, 5425.0, 5303.0, 5351.0, 5514.0, 5433.0, 5335.0, 5547.0, 5429.0, 5638.0, 5268.0, 5471.0, 5418.0, 5668.0, 5265.0, 5510.0, 5469.0, 5326.0, 5341.0, 5692.0, 5516.0, 5277.0, 5533.0, 5345.0, 5473.0, 5560.0, 5422.0, 5363.0, 5722.0 (number of hits: 8)

15	5580	9	1	333	1	5683.0, 5338.0, 5259.0, 5606.0, 5251.0, 5595.0, 5266.0, 5403.0, 5568.0, 5402.0, 5377.0, 5383.0, 5447.0, 5254.0, 5674.0, 5500.0, 5524.0, 5434.0, 5566.0, 5283.0, 5652.0, 5628.0, 5512.0, 5605.0, 5691.0, 5557.0, 5317.0, 5660.0, 5424.0, 5472.0, 5503.0, 5522.0, 5337.0, 5661.0, 5552.0, 5364.0, 5537.0, 5410.0, 5698.0, 5322.0, 5561.0, 5713.0, 5429.0, 5565.0, 5513.0, 5422.0, 5270.0, 5313.0, 5466.0, 5685.0, 5719.0, 5387.0, 5417.0, 5302.0, 5534.0, 5408.0, 5323.0, 5459.0, 5560.0, 5373.0, 5462.0, 5603.0, 5301.0, 5702.0, 5304.0, 5635.0, 5724.0, 5496.0, 5475.0, 5363.0, 5499.0, 5694.0, 5426.0, 5379.0, 5535.0, 5454.0, 5405.0, 5488.0, 5411.0, 5351.0, 5722.0, 5367.0, 5441.0, 5260.0, 5365.0, 5594.0, 5667.0, 5288.0, 5300.0, 5395.0, 5318.0, 5648.0, 5617.0, 5490.0, 5296.0, 5575.0, 5598.0, 5541.0, 5690.0, 5546.0 (number of hits: 7)
16	5580	9	1	333	1	5331.0, 5535.0, 5288.0, 5645.0, 5474.0, 5326.0, 5297.0, 5700.0, 5466.0, 5696.0, 5487.0, 5374.0, 5527.0, 5382.0, 5269.0, 5578.0, 5531.0, 5636.0, 5307.0, 5262.0, 5670.0, 5394.0, 5434.0, 5706.0, 5492.0, 5518.0, 5328.0, 5272.0, 5540.0, 5572.0, 5274.0, 5410.0, 5484.0, 5554.0, 5341.0, 5323.0, 5437.0, 5290.0, 5667.0, 5648.0, 5536.0, 5620.0, 5541.0, 5462.0, 5469.0, 5621.0, 5450.0, 5451.0, 5441.0, 5324.0, 5701.0, 5258.0, 5595.0, 5432.0, 5601.0, 5707.0, 5461.0, 5605.0, 5509.0, 5329.0, 5306.0, 5387.0, 5694.0, 5569.0, 5516.0, 5446.0, 5708.0, 5655.0, 5424.0, 5616.0, 5671.0, 5266.0, 5457.0, 5497.0, 5519.0, 5369.0, 5313.0, 5259.0, 5422.0, 5640.0, 5680.0, 5273.0, 5375.0, 5580.0, 5430.0, 5353.0, 5590.0, 5626.0, 5364.0, 5717.0, 5567.0, 5264.0, 5521.0, 5347.0, 5276.0, 5532.0, 5662.0, 5257.0, 5576.0, 5384.0 (number of hits: 6)
17	5580	9	1	333	1	5604.0, 5405.0, 5356.0, 5704.0, 5654.0, 5720.0, 5459.0, 5352.0, 5256.0, 5638.0, 5550.0, 5250.0, 5479.0, 5609.0, 5306.0, 5706.0, 5644.0, 5365.0, 5709.0, 5449.0, 5490.0, 5321.0, 5712.0, 5497.0, 5460.0, 5408.0, 5311.0, 5441.0, 5602.0, 5320.0, 5651.0, 5482.0, 5718.0, 5475.0, 5694.0, 5344.0, 5444.0, 5317.0, 5502.0, 5364.0, 5682.0, 5545.0, 5714.0, 5398.0, 5372.0, 5495.0, 5679.0, 5292.0, 5534.0, 5493.0, 5613.0, 5473.0, 5641.0, 5722.0, 5465.0, 5661.0, 5403.0, 5291.0, 5401.0, 5717.0, 5429.0, 5325.0, 5298.0, 5657.0, 5432.0, 5359.0, 5509.0, 5366.0, 5390.0, 5544.0, 5278.0, 5684.0, 5558.0, 5639.0, 5584.0, 5662.0, 5491.0, 5572.0, 5678.0, 5347.0, 5428.0, 5685.0, 5681.0, 5353.0, 5625.0, 5286.0, 5277.0, 5546.0, 5652.0, 5683.0,

						5696.0, 5611.0, 5430.0, 5462.0, 5471.0, 5455.0, 5635.0, 5593.0, 5563.0, 5623.0 (number of hits: 6)
18	5580	9	1	333	1	5596.0, 5489.0, 5643.0, 5379.0, 5598.0, 5622.0, 5500.0, 5482.0, 5296.0, 5475.0, 5676.0, 5399.0, 5364.0, 5558.0, 5352.0, 5605.0, 5419.0, 5594.0, 5581.0, 5619.0, 5506.0, 5679.0, 5595.0, 5557.0, 5436.0, 5428.0, 5591.0, 5544.0, 5565.0, 5412.0, 5525.0, 5637.0, 5642.0, 5427.0, 5454.0, 5521.0, 5560.0, 5682.0, 5502.0, 5659.0, 5381.0, 5576.0, 5539.0, 5712.0, 5692.0, 5508.0, 5720.0, 5599.0, 5474.0, 5271.0, 5385.0, 5289.0, 5691.0, 5574.0, 5477.0, 5354.0, 5487.0, 5582.0, 5700.0, 5464.0, 5275.0, 5414.0, 5323.0, 5452.0, 5556.0, 5384.0, 5665.0, 5549.0, 5713.0, 5666.0, 5324.0, 5538.0, 5441.0, 5321.0, 5279.0, 5326.0, 5391.0, 5317.0, 5431.0, 5285.0, 5390.0, 5526.0, 5614.0, 5303.0, 5566.0, 5300.0, 5624.0, 5494.0, 5281.0, 5555.0, 5623.0, 5563.0, 5476.0, 5301.0, 5329.0, 5699.0, 5309.0, 5451.0, 5640.0, 5681.0 (number of hits: 7)
19	5580	9	1	333	1	5494.0, 5470.0, 5552.0, 5262.0, 5620.0, 5296.0, 5498.0, 5390.0, 5277.0, 5317.0, 5522.0, 5414.0, 5662.0, 5402.0, 5666.0, 5392.0, 5561.0, 5312.0, 5549.0, 5573.0, 5669.0, 5261.0, 5431.0, 5481.0, 5333.0, 5400.0, 5650.0, 5578.0, 5646.0, 5472.0, 5374.0, 5493.0, 5427.0, 5524.0, 5509.0, 5644.0, 5354.0, 5282.0, 5531.0, 5720.0, 5339.0, 5656.0, 5592.0, 5715.0, 5380.0, 5253.0, 5636.0, 5657.0, 5634.0, 5290.0, 5659.0, 5455.0, 5591.0, 5626.0, 5589.0, 5539.0, 5521.0, 5665.0, 5394.0, 5723.0, 5633.0, 5624.0, 5346.0, 5685.0, 5653.0, 5385.0, 5550.0, 5622.0, 5362.0, 5265.0, 5499.0, 5675.0, 5438.0, 5602.0, 5445.0, 5710.0, 5425.0, 5712.0, 5696.0, 5377.0, 5446.0, 5631.0, 5436.0, 5486.0, 5547.0, 5505.0, 5461.0, 5352.0, 5297.0, 5419.0, 5329.0, 5508.0, 5670.0, 5381.0, 5321.0, 5613.0, 5581.0, 5714.0, 5689.0, 5307.0 (number of hits: 5)
20	5580	9	1	333	1	5268.0, 5507.0, 5521.0, 5650.0, 5271.0, 5346.0, 5459.0, 5313.0, 5323.0, 5349.0, 5520.0, 5517.0, 5471.0, 5526.0, 5597.0, 5486.0, 5634.0, 5294.0, 5530.0, 5702.0, 5371.0, 5353.0, 5290.0, 5691.0, 5723.0, 5297.0, 5398.0, 5509.0, 5461.0, 5683.0, 5262.0, 5550.0, 5609.0, 5278.0, 5283.0, 5391.0, 5351.0, 5703.0, 5488.0, 5654.0, 5695.0, 5340.0, 5624.0, 5628.0, 5298.0, 5547.0, 5670.0, 5622.0, 5639.0, 5484.0, 5362.0, 5675.0, 5704.0, 5498.0, 5259.0, 5619.0, 5337.0, 5653.0, 5548.0, 5595.0, 5359.0, 5360.0, 5317.0, 5605.0, 5344.0, 5266.0, 5714.0, 5524.0, 5532.0, 5503.0, 5284.0, 5512.0, 5336.0, 5312.0, 5523.0,

						5345.0, 5646.0, 5531.0, 5446.0, 5586.0, 5410.0, 5355.0, 5285.0, 5560.0, 5493.0, 5394.0, 5311.0, 5500.0, 5420.0, 5425.0, 5571.0, 5389.0, 5556.0, 5423.0, 5616.0, 5356.0, 5709.0, 5367.0, 5504.0, 5482.0 (number of hits: 8)
21	5580	9	1	333	1	5450.0, 5530.0, 5526.0, 5611.0, 5398.0, 5559.0, 5430.0, 5516.0, 5475.0, 5442.0, 5468.0, 5568.0, 5381.0, 5407.0, 5255.0, 5597.0, 5365.0, 5318.0, 5448.0, 5652.0, 5586.0, 5492.0, 5581.0, 5520.0, 5415.0, 5413.0, 5465.0, 5493.0, 5469.0, 5603.0, 5308.0, 5601.0, 5281.0, 5327.0, 5444.0, 5622.0, 5669.0, 5707.0, 5650.0, 5396.0, 5718.0, 5566.0, 5269.0, 5359.0, 5287.0, 5698.0, 5386.0, 5416.0, 5679.0, 5355.0, 5556.0, 5521.0, 5626.0, 5565.0, 5590.0, 5540.0, 5641.0, 5616.0, 5673.0, 5306.0, 5570.0, 5335.0, 5648.0, 5588.0, 5522.0, 5479.0, 5253.0, 5582.0, 5578.0, 5655.0, 5294.0, 5636.0, 5647.0, 5282.0, 5583.0, 5388.0, 5551.0, 5457.0, 5511.0, 5604.0, 5311.0, 5716.0, 5555.0, 5291.0, 5681.0, 5624.0, 5332.0, 5334.0, 5534.0, 5408.0, 5587.0, 5425.0, 5258.0, 5535.0, 5686.0, 5259.0, 5266.0, 5620.0, 5483.0, 5506.0 (number of hits: 6)
22	5580	9	1	333	1	5615.0, 5370.0, 5528.0, 5477.0, 5610.0, 5548.0, 5685.0, 5333.0, 5614.0, 5422.0, 5376.0, 5479.0, 5363.0, 5321.0, 5710.0, 5452.0, 5349.0, 5377.0, 5274.0, 5714.0, 5515.0, 5664.0, 5713.0, 5518.0, 5571.0, 5430.0, 5658.0, 5525.0, 5704.0, 5295.0, 5414.0, 5435.0, 5694.0, 5560.0, 5260.0, 5438.0, 5379.0, 5331.0, 5346.0, 5252.0, 5402.0, 5580.0, 5504.0, 5597.0, 5326.0, 5674.0, 5555.0, 5300.0, 5278.0, 5269.0, 5550.0, 5383.0, 5626.0, 5473.0, 5641.0, 5703.0, 5463.0, 5671.0, 5627.0, 5316.0, 5566.0, 5437.0, 5547.0, 5423.0, 5577.0, 5488.0, 5616.0, 5469.0, 5522.0, 5369.0, 5620.0, 5553.0, 5431.0, 5361.0, 5355.0, 5495.0, 5443.0, 5434.0, 5319.0, 5410.0, 5425.0, 5530.0, 5512.0, 5380.0, 5307.0, 5589.0, 5647.0, 5502.0, 5253.0, 5690.0, 5296.0, 5444.0, 5532.0, 5678.0, 5633.0, 5439.0, 5441.0, 5628.0, 5490.0, 5554.0 (number of hits: 4)
23	5580	9	1	333	1	5586.0, 5568.0, 5433.0, 5431.0, 5415.0, 5526.0, 5414.0, 5389.0, 5423.0, 5616.0, 5670.0, 5323.0, 5336.0, 5556.0, 5429.0, 5354.0, 5676.0, 5435.0, 5539.0, 5648.0, 5514.0, 5624.0, 5450.0, 5643.0, 5500.0, 5623.0, 5264.0, 5608.0, 5456.0, 5668.0, 5681.0, 5629.0, 5559.0, 5250.0, 5406.0, 5383.0, 5558.0, 5656.0, 5517.0, 5446.0, 5353.0, 5392.0, 5269.0, 5569.0, 5355.0, 5277.0, 5546.0, 5706.0, 5297.0, 5381.0, 5368.0, 5601.0, 5344.0, 5464.0, 5703.0, 5325.0, 5515.0, 5719.0, 5338.0, 5650.0,

						5259.0, 5298.0, 5598.0, 5661.0, 5511.0, 5675.0, 5649.0, 5478.0, 5261.0, 5465.0, 5600.0, 5289.0, 5631.0, 5582.0, 5457.0, 5390.0, 5359.0, 5490.0, 5577.0, 5655.0, 5671.0, 5707.0, 5421.0, 5472.0, 5400.0, 5267.0, 5265.0, 5716.0, 5700.0, 5452.0, 5287.0, 5401.0, 5589.0, 5551.0, 5339.0, 5641.0, 5663.0, 5411.0, 5274.0, 5555.0 (number of hits: 4)
24	5580	9	1	333	1	5342.0, 5706.0, 5472.0, 5499.0, 5583.0, 5453.0, 5356.0, 5452.0, 5251.0, 5269.0, 5436.0, 5534.0, 5478.0, 5668.0, 5567.0, 5720.0, 5625.0, 5564.0, 5370.0, 5704.0, 5545.0, 5357.0, 5359.0, 5519.0, 5560.0, 5671.0, 5288.0, 5306.0, 5410.0, 5487.0, 5660.0, 5445.0, 5417.0, 5705.0, 5518.0, 5510.0, 5404.0, 5721.0, 5440.0, 5480.0, 5638.0, 5493.0, 5693.0, 5388.0, 5513.0, 5314.0, 5267.0, 5637.0, 5485.0, 5575.0, 5533.0, 5691.0, 5496.0, 5419.0, 5598.0, 5364.0, 5511.0, 5475.0, 5265.0, 5573.0, 5365.0, 5326.0, 5433.0, 5488.0, 5461.0, 5376.0, 5332.0, 5451.0, 5557.0, 5354.0, 5305.0, 5508.0, 5601.0, 5656.0, 5330.0, 5540.0, 5270.0, 5644.0, 5641.0, 5678.0, 5717.0, 5648.0, 5626.0, 5578.0, 5367.0, 5666.0, 5340.0, 5539.0, 5413.0, 5325.0, 5484.0, 5395.0, 5715.0, 5312.0, 5311.0, 5661.0, 5271.0, 5676.0, 5605.0, 5435.0 (number of hits: 6)
25	5580	9	1	333	1	5521.0, 5434.0, 5542.0, 5718.0, 5311.0, 5375.0, 5528.0, 5466.0, 5296.0, 5255.0, 5538.0, 5374.0, 5344.0, 5438.0, 5683.0, 5401.0, 5585.0, 5678.0, 5343.0, 5719.0, 5500.0, 5592.0, 5552.0, 5671.0, 5677.0, 5691.0, 5422.0, 5392.0, 5565.0, 5664.0, 5619.0, 5497.0, 5673.0, 5306.0, 5428.0, 5461.0, 5404.0, 5637.0, 5385.0, 5468.0, 5405.0, 5402.0, 5549.0, 5668.0, 5666.0, 5634.0, 5395.0, 5609.0, 5630.0, 5445.0, 5371.0, 5672.0, 5465.0, 5676.0, 5350.0, 5452.0, 5647.0, 5414.0, 5394.0, 5504.0, 5688.0, 5351.0, 5476.0, 5312.0, 5704.0, 5681.0, 5380.0, 5420.0, 5589.0, 5278.0, 5703.0, 5437.0, 5379.0, 5419.0, 5514.0, 5687.0, 5640.0, 5595.0, 5310.0, 5665.0, 5706.0, 5623.0, 5382.0, 5315.0, 5421.0, 5607.0, 5377.0, 5352.0, 5611.0, 5332.0, 5559.0, 5297.0, 5523.0, 5359.0, 5265.0, 5540.0, 5317.0, 5267.0, 5556.0, 5636.0 (number of hits: 6)
26	5580	9	1	333	1	5288.0, 5344.0, 5633.0, 5268.0, 5463.0, 5515.0, 5303.0, 5506.0, 5457.0, 5538.0, 5548.0, 5592.0, 5368.0, 5410.0, 5532.0, 5307.0, 5505.0, 5384.0, 5723.0, 5484.0, 5712.0, 5603.0, 5260.0, 5539.0, 5595.0, 5352.0, 5309.0, 5693.0, 5366.0, 5335.0, 5436.0, 5323.0, 5401.0, 5431.0, 5388.0, 5428.0, 5547.0, 5721.0, 5337.0, 5261.0, 5536.0, 5385.0, 5574.0, 5568.0, 5696.0,

						5423.0, 5489.0, 5629.0, 5404.0, 5389.0, 5332.0, 5256.0, 5582.0, 5608.0, 5262.0, 5334.0, 5717.0, 5264.0, 5420.0, 5356.0, 5338.0, 5622.0, 5678.0, 5507.0, 5357.0, 5407.0, 5441.0, 5650.0, 5328.0, 5383.0, 5687.0, 5588.0, 5663.0, 5259.0, 5597.0, 5419.0, 5496.0, 5393.0, 5604.0, 5625.0, 5453.0, 5386.0, 5614.0, 5373.0, 5341.0, 5658.0, 5594.0, 5704.0, 5722.0, 5560.0, 5412.0, 5503.0, 5618.0, 5465.0, 5631.0, 5318.0, 5556.0, 5375.0, 5641.0, 5659.0 (number of hits: 4)
27	5580	9	1	333	1	5428.0, 5478.0, 5514.0, 5279.0, 5700.0, 5334.0, 5616.0, 5396.0, 5345.0, 5638.0, 5318.0, 5285.0, 5378.0, 5542.0, 5426.0, 5523.0, 5551.0, 5347.0, 5547.0, 5643.0, 5488.0, 5338.0, 5332.0, 5490.0, 5691.0, 5457.0, 5498.0, 5476.0, 5458.0, 5259.0, 5438.0, 5270.0, 5573.0, 5711.0, 5348.0, 5621.0, 5312.0, 5521.0, 5670.0, 5664.0, 5283.0, 5518.0, 5574.0, 5580.0, 5392.0, 5448.0, 5255.0, 5357.0, 5251.0, 5599.0, 5258.0, 5647.0, 5456.0, 5437.0, 5688.0, 5487.0, 5562.0, 5296.0, 5373.0, 5601.0, 5585.0, 5379.0, 5299.0, 5528.0, 5445.0, 5469.0, 5471.0, 5327.0, 5273.0, 5489.0, 5412.0, 5417.0, 5710.0, 5690.0, 5717.0, 5387.0, 5342.0, 5398.0, 5337.0, 5409.0, 5335.0, 5535.0, 5708.0, 5703.0, 5300.0, 5397.0, 5452.0, 5520.0, 5722.0, 5389.0, 5479.0, 5652.0, 5400.0, 5596.0, 5302.0, 5608.0, 5666.0, 5325.0, 5553.0, 5262.0 (number of hits: 6)
28	5580	9	1	333	1	5715.0, 5319.0, 5664.0, 5662.0, 5607.0, 5336.0, 5500.0, 5529.0, 5340.0, 5527.0, 5526.0, 5503.0, 5348.0, 5458.0, 5509.0, 5520.0, 5683.0, 5428.0, 5645.0, 5650.0, 5506.0, 5473.0, 5690.0, 5532.0, 5269.0, 5382.0, 5570.0, 5399.0, 5544.0, 5682.0, 5289.0, 5469.0, 5482.0, 5373.0, 5486.0, 5671.0, 5562.0, 5531.0, 5477.0, 5504.0, 5497.0, 5581.0, 5587.0, 5476.0, 5636.0, 5343.0, 5487.0, 5513.0, 5652.0, 5639.0, 5465.0, 5564.0, 5266.0, 5470.0, 5672.0, 5663.0, 5332.0, 5648.0, 5255.0, 5540.0, 5632.0, 5702.0, 5535.0, 5361.0, 5417.0, 5345.0, 5350.0, 5435.0, 5274.0, 5253.0, 5357.0, 5594.0, 5723.0, 5600.0, 5285.0, 5667.0, 5407.0, 5585.0, 5602.0, 5359.0, 5367.0, 5546.0, 5565.0, 5346.0, 5719.0, 5573.0, 5463.0, 5558.0, 5267.0, 5256.0, 5422.0, 5309.0, 5453.0, 5492.0, 5440.0, 5446.0, 5511.0, 5331.0, 5722.0, 5597.0 (number of hits: 3)
29	5580	9	1	333	1	5438.0, 5258.0, 5691.0, 5323.0, 5690.0, 5592.0, 5665.0, 5531.0, 5620.0, 5493.0, 5451.0, 5535.0, 5328.0, 5367.0, 5268.0, 5565.0, 5656.0, 5285.0, 5543.0, 5473.0, 5510.0, 5435.0, 5551.0, 5471.0, 5430.0, 5692.0, 5467.0, 5381.0, 5634.0, 5252.0,

						5603.0, 5335.0, 5317.0, 5327.0, 5629.0, 5366.0, 5293.0, 5456.0, 5417.0, 5408.0, 5594.0, 5677.0, 5292.0, 5597.0, 5599.0, 5468.0, 5559.0, 5508.0, 5256.0, 5383.0, 5387.0, 5364.0, 5318.0, 5437.0, 5372.0, 5313.0, 5674.0, 5279.0, 5432.0, 5512.0, 5673.0, 5304.0, 5540.0, 5645.0, 5660.0, 5524.0, 5354.0, 5378.0, 5651.0, 5561.0, 5522.0, 5539.0, 5715.0, 5606.0, 5627.0, 5325.0, 5570.0, 5693.0, 5585.0, 5448.0, 5557.0, 5484.0, 5605.0, 5610.0, 5334.0, 5635.0, 5340.0, 5538.0, 5547.0, 5722.0, 5488.0, 5254.0, 5311.0, 5389.0, 5542.0, 5281.0, 5532.0, 5346.0, 5588.0, 5331.0 (number of hits: 6)
30	5580	9	1	333	1	5651.0, 5252.0, 5612.0, 5539.0, 5457.0, 5415.0, 5669.0, 5711.0, 5538.0, 5328.0, 5659.0, 5632.0, 5320.0, 5398.0, 5474.0, 5298.0, 5677.0, 5546.0, 5260.0, 5577.0, 5623.0, 5594.0, 5719.0, 5686.0, 5687.0, 5559.0, 5343.0, 5537.0, 5430.0, 5326.0, 5408.0, 5472.0, 5456.0, 5272.0, 5604.0, 5455.0, 5330.0, 5674.0, 5528.0, 5479.0, 5688.0, 5292.0, 5487.0, 5468.0, 5664.0, 5670.0, 5619.0, 5675.0, 5642.0, 5614.0, 5629.0, 5585.0, 5535.0, 5494.0, 5261.0, 5536.0, 5511.0, 5381.0, 5644.0, 5259.0, 5542.0, 5649.0, 5297.0, 5322.0, 5288.0, 5682.0, 5314.0, 5423.0, 5683.0, 5324.0, 5284.0, 5385.0, 5667.0, 5490.0, 5499.0, 5602.0, 5613.0, 5448.0, 5445.0, 5262.0, 5394.0, 5310.0, 5589.0, 5713.0, 5661.0, 5352.0, 5599.0, 5485.0, 5274.0, 5255.0, 5722.0, 5502.0, 5658.0, 5411.0, 5405.0, 5403.0, 5329.0, 5564.0, 5375.0, 5656.0 (number of hits: 6)

5290 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	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 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	18	1	1428	1
2	5290	18	1	1428	1
3	5290	18	1	1428	1
4	5290	18	1	1428	1
5	5290	18	1	1428	1
6	5290	18	1	1428	1
7	5290	18	1	1428	1
8	5290	18	1	1428	1
9	5290	18	1	1428	1
10	5290	18	1	1428	1
11	5290	18	1	1428	1
12	5290	18	1	1428	1
13	5290	18	1	1428	1
14	5290	18	1	1428	1
15	5290	18	1	1428	1
16	5290	18	1	1428	1
17	5290	18	1	1428	1
18	5290	18	1	1428	1
19	5290	18	1	1428	1
20	5290	18	1	1428	1
21	5290	18	1	1428	1
22	5290	18	1	1428	1
23	5290	18	1	1428	1
24	5290	18	1	1428	1
25	5290	18	1	1428	1
26	5290	18	1	1428	1
27	5290	18	1	1428	1
28	5290	18	1	1428	1
29	5290	18	1	1428	1
30	5290	18	1	1428	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	24	4	168	1
2	5290	29	3.2	175	1
3	5290	27	3.8	185	1
4	5290	26	4.5	167	1
5	5290	27	4.7	226	1
6	5290	26	5	223	1
7	5290	27	3	220	1
8	5290	29	2.5	174	1
9	5290	25	1	180	1
10	5290	24	3.6	215	1
11	5290	28	4.9	193	1
12	5290	25	1.9	163	1
13	5290	24	4.8	212	1
14	5290	29	3.8	155	1
15	5290	24	3.8	170	1
16	5290	28	3.3	151	1
17	5290	23	4.9	159	1
18	5290	23	2.3	171	1
19	5290	25	1.4	195	1
20	5290	29	2.7	191	1
21	5290	26	4.1	160	1
22	5290	25	2.4	223	1
23	5290	24	1.8	157	1
24	5290	26	2.1	170	1
25	5290	29	3.7	194	1
26	5290	23	4.7	230	1
27	5290	27	2.3	185	1
28	5290	29	3.3	180	1
29	5290	27	1	181	1
30	5290	26	3.8	180	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	462	1
2	5290	17	9.9	411	1
3	5290	16	9.1	226	1
4	5290	18	8.5	448	1
5	5290	18	7.9	478	1
6	5290	18	9.3	500	1
7	5290	18	8.2	259	1
8	5290	16	7.3	219	1
9	5290	17	7.3	299	1
10	5290	17	7.5	398	1
11	5290	16	6.5	438	1
12	5290	18	8.7	476	1
13	5290	17	7	323	1
14	5290	16	8.9	385	1
15	5290	17	7.1	400	1
16	5290	17	6.5	333	1
17	5290	18	7.6	224	1
18	5290	18	8.5	436	1
19	5290	18	9.2	276	1
20	5290	18	6.2	299	1
21	5290	17	9.5	468	1
22	5290	16	7.5	277	1
23	5290	16	9.3	441	1
24	5290	18	8.9	437	1
25	5290	16	6	447	1
26	5290	17	6.7	251	1
27	5290	17	9.6	382	1
28	5290	17	6.8	207	1
29	5290	17	6.5	215	1
30	5290	18	6.9	397	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	14	12.2	449	1
2	5290	13	14.2	282	1
3	5290	13	19.2	243	1
4	5290	12	18.6	263	1
5	5290	16	13.4	278	1
6	5290	13	14.4	213	1
7	5290	13	15.3	477	1
8	5290	12	13.1	311	1
9	5290	15	16	272	1
10	5290	14	18.1	432	1
11	5290	14	19.4	466	1
12	5290	15	16.1	294	1
13	5290	14	15.9	450	1
14	5290	13	19.2	337	1
15	5290	14	12.9	286	1
16	5290	12	11.7	349	1
17	5290	14	19.5	491	1
18	5290	13	18.1	432	1
19	5290	16	19.9	438	1
20	5290	15	15.6	270	1
21	5290	13	15.2	258	1
22	5290	12	11.6	388	1
23	5290	15	12.6	377	1
24	5290	12	14.1	328	1
25	5290	14	11.6	498	1
26	5290	14	12.5	435	1
27	5290	16	19.2	330	1
28	5290	15	19.6	227	1
29	5290	16	15.4	412	1
30	5290	16	15.9	328	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	15	72.8			0.190237	1
1	3	18	82.3	1795	1476	0.92577	
2	2	9	76	1328		1.391603	
3	2	17	56.1	1493		2.071095	
4	2	16	90.9	1960		3.093515	
5	2	12	61.6	1959		3.472767	
6	2	11	65.5	1303		4.505427	
7	3	19	83	1306	1476	4.954006	
8	1	8	50.2			5.859863	
9	2	14	96	1476		6.646413	
10	3	16	81.2	1602	1174	7.037422	
11	3	13	62.9	1831	1042	7.91504	
12	3	12	61.5	1819	1555	8.053584	
13	2	8	79	1945		8.802397	
14	2	19	95	1136		9.650156	
15	2	11	68.4	1954		10.405051	
16	3	17	97.5	1148	1347	11.230496	
17	2	5	94	1376		11.95684	

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	20	68.5	1526		0.009812	1
1	1	9	56.1			1.183289	
2	2	17	64.5	1256		1.439261	
3	2	5	92.1	1098		1.838097	
4	2	11	67.4	1716		2.448656	
5	2	14	85.1	1011		3.071417	
6	1	19	72.3			3.772234	
7	2	14	62.1	1237		4.244729	
8	3	17	92	1046	1679	4.829816	
9	3	7	95.1	1051	1626	5.767476	
10	2	6	72.6	1602		6.420016	
11	1	12	63.2			6.939362	
12	2	12	62.6	1665		7.20778	
13	1	10	99.8			8.007031	
14	2	16	76.9	1377		8.813626	
15	3	6	74.6	1571	1476	9.187179	
16	1	10	66.2			9.72332	
17	2	15	62.2	1684		10.626965	
18	2	12	63.5	1774		11.093732	
19	2	19	95.7	1421		11.811883	

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	18	72.4	1904	1905	0.44616	
1	1	17	79.9			1.093669	
2	1	13	70.1			2.647032	
3	2	17	80.7	1763		3.015787	
4	2	6	74.4	1132		4.114094	
5	1	11	97			5.952003	
6	2	8	63.7	1478		6.602249	1
7	2	9	65.9	1358		7.220317	
8	2	6	75	1258		8.920216	
9	2	16	77.6	1853		9.725319	
10	1	15	94.3			10.865973	
11	1	6	71.4			11.209519	
0	3	18	72.4	1904	1905	0.44616	

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	10	91.4			0.525619	
1	2	14	64.3	1489		1.133833	
2	3	14	51.8	1182	1290	1.810444	
3	2	7	60.8	1017		2.635907	
4	2	13	89.7	1487		3.360395	
5	3	17	52.2	1237	1743	4.360668	
6	3	10	84.6	1061	1956	4.865938	
7	2	17	67.1	1902		5.595998	
8	3	7	99.1	1851	1658	6.640468	1
9	2	19	72.6	1005		7.21745	
10	3	10	50.9	1130	1922	7.672166	
11	2	16	54	1845		8.947554	
12	2	17	78.4	1704		9.620723	
13	3	15	60.1	1005	1555	9.902606	
14	1	17	78.6			10.72073	
15	2	20	75.9	1570		11.429071	

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	79.5	1725		0.091815	
1	1	14	69.9			1.322623	
2	3	19	95.2	1261	1179	1.73403	
3	1	8	50.1			3.124636	
4	2	9	59.8	1952		3.346031	
5	2	11	58.1	1303		4.106852	
6	2	5	52.5	1015		5.005867	
7	1	8	62.7			6.080423	1
8	2	14	81.3	1591		7.06041	
9	2	6	67.3	1494		7.432888	
10	1	6	77.2			8.445099	
11	1	7	86.1			8.965835	
12	3	19	98.9	1285	1834	10.084663	
13	2	10	65.7	1659		10.730779	
14	2	8	91.3	1421		11.767618	

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	14	90.9	1561	1459	0.668345	
1	3	12	99.8	1129	1520	2.12023	
2	2	10	54.2	1636		3.925708	
3	2	14	84.8	1357		4.51564	
4	3	19	83.8	1622	1822	6.136127	1
5	1	15	77.9			6.851495	
6	1	16	53.3			8.347655	
7	2	5	86.7	1423		10.534178	
8	3	20	74.4	1069	1921	11.44981	

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	8	57	1319		0.521194	1
1	2	20	88.7	1139		2.28422	
2	2	16	82.6	1785		3.359067	
3	2	12	71.3	1690		4.409315	
4	2	16	58.1	1726		5.282579	
5	2	9	73.9	1260		6.372395	
6	2	17	81.9	1491		7.414042	
7	2	13	50.5	1634		8.930185	
8	3	11	66.5	1559	1899	9.927387	
9	3	8	56.6	1760	1848	11.119831	

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	1	10	56			0.383264	1
1	3	19	59.1	1468	1047	1.267821	
2	3	7	85.5	1343	1981	1.564136	
3	1	13	62.2			2.633411	
4	3	18	77.1	1872	1584	2.905491	
5	2	18	50.3	1732		3.707649	
6	1	9	93			4.633946	
7	3	17	85.2	1985	1451	5.079773	
8	2	8	53.5	1024		5.420429	
9	3	9	78.3	1815	1121	6.07473	
10	3	6	73.3	1859	1499	7.169174	
11	2	12	78.5	1439		7.61034	
12	3	10	97.9	1991	1839	8.099906	
13	1	6	84.1			9.328128	
14	2	7	91.2	1522		9.542308	
15	2	10	62	1534		10.240909	
16	1	16	97.3			10.696744	
17	2	8	82.3	1097		11.559432	

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	15	83.6	1255		0.071304	
1	2	10	81.1	1898		1.28718	
2	2	14	91.1	1994		1.466275	
3	1	9	53.2			2.342773	
4	2	20	72	1353		3.20693	
5	3	17	74.6	1634	1487	3.605729	
6	1	9	91.9			4.599761	
7	2	11	50	1748		5.138685	
8	2	11	74.2	1010		6.002638	1
9	2	7	98.5	1886		6.807769	
10	2	16	81.5	1726		7.503421	
11	3	12	79.6	1975	1407	7.835955	
12	2	9	82.4	1803		8.968601	
13	2	13	52.4	1746		9.577675	
14	2	6	69.3	1330		10.09333	
15	2	17	70.7	1611		11.180123	
16	2	6	98.2	1190		11.946822	

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	3	12	88.3	1784	1556	0.70663	
1	2	7	99.1	1609		1.455608	
2	3	16	97.2	1871	1724	2.779174	
3	3	12	53.7	1505	1214	4.197172	
4	3	13	98.1	1605	1341	4.843457	
5	3	8	77.6	1896	1348	6.256082	1
6	2	9	83.2	1226		7.256182	
7	2	9	80.3	1564		8.605862	
8	1	14	66.1			9.744883	
9	2	11	96.5	1552		10.318704	
10	2	19	89.1	1673		10.974486	

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	15	61.6			0.291081	
1	2	16	91.8	1737		1.631861	
2	2	10	73.6	1985		2.55252	
3	3	8	60	1299	1796	2.834083	
4	3	14	70.5	1596	1366	3.832966	
5	2	12	98.1	1527		5.150251	
6	2	16	78.1	1875		6.415897	1
7	2	8	63.4	1236		7.234678	
8	2	18	55.8	1772		7.920377	
9	3	6	52.6	1685	1080	8.798836	
10	2	13	52.3	1925		10.0574	
11	3	10	50.2	1380	1263	10.866053	
12	1	17	71.7			11.08822	

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	67.2			0.635068	
1	1	6	84.5			1.819665	
2	1	13	58.2			2.497605	
3	2	15	62.6	1486		3.424714	
4	2	13	88.5	1742		4.267808	
5	1	6	81.9			4.852503	
6	3	17	69.9	1867	1606	5.589069	1
7	3	8	80.1	1711	1394	7.049875	
8	3	19	89.8	1001	1254	7.623976	
9	1	19	91.5			8.80111	
10	2	10	83	1891		10.06793	
11	2	13	81.1	1050		10.879073	
12	2	16	78.9	1857		11.81826	

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	9	99.3			0.346206	
1	2	8	79.6	1541		0.913091	
2	3	5	70	1527	1451	1.87487	
3	1	8	55.4			2.996334	
4	2	18	94	1390		3.844114	
5	3	17	87.2	1923	1047	4.599446	
6	3	17	53.2	1558	1988	5.494578	
7	2	6	54.9	1499		5.646704	1
8	2	15	64.6	1927		7.1043	
9	2	12	85	1995		7.689067	
10	3	11	57.1	1953	1094	8.746298	
11	2	7	84.4	1104		9.137978	
12	1	16	80.2			9.860403	
13	2	12	63.4	1307		10.467324	
14	2	10	66.7	1937		11.361243	

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	88.4	1287	1905	0.040702	
1	3	12	55.7	1975	1914	0.997678	
2	1	18	74.6			2.093584	
3	2	17	87.8	1866		2.333515	
4	1	10	51.1			3.357179	
5	2	12	71.3	1763		3.584488	
6	1	13	71.3			4.351526	
7	2	15	76.6	1099		5.617097	
8	2	15	76.4	1033		5.944967	1
9	2	10	63.9	1999		6.378266	
10	2	9	68.6	1001		7.606681	
11	2	12	82.3	1263		8.283472	
12	3	17	70.8	1378	1968	9.076702	
13	2	17	52.4	1511		9.495027	
14	1	14	53			10.216674	
15	2	14	87.1	1345		10.760444	
16	2	15	70.5	1599		11.939637	

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	1	7	54.9			1.142705	1
1	2	15	74.7	1265		2.030899	
2	2	12	65.5	1980		2.818422	
3	1	8	53.8			3.821434	
4	1	13	62.9			5.575095	
5	1	17	56.6			6.533223	
6	2	10	69.2	1695		8.375146	
7	3	10	58.7	1599	1410	8.833587	
8	3	17	80.8	1369	1925	10.4836	
9	1	8	83.5			11.08966	

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	7	59.4	1160		0.420231	1
1	2	15	52.4	1275		2.128535	
2	2	8	81.5	1037		2.948418	
3	2	6	64.5	1613		3.755366	
4	3	6	98.3	1682	1385	4.779659	
5	2	10	83.9	1340		6.176433	
6	3	14	62.7	1006	1118	6.820558	
7	1	12	69			7.961469	
8	1	17	51.4			9.707158	
9	2	6	78.6	1967		10.861027	
10	1	20	90.3			11.882385	

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	8	82.4	1384		0.353373	1
1	1	13	97.6			2.092911	
2	2	10	58.2	1805		3.268795	
3	1	10	82.2			4.984909	
4	3	14	96.7	1587	1069	6.903421	
5	2	7	79	1849		8.094278	
6	3	17	61.3	1063	1651	10.375357	
7	2	6	75.4	1532		10.880073	

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	3	19	95	1157	1739	0.309383	1
1	1	10	84.7			0.961546	
2	1	17	67			1.491685	
3	2	6	87.9	1551		2.153239	
4	2	11	65.5	1253		3.473179	
5	2	9	71.7	1935		3.602914	
6	2	5	67.8	1228		4.255404	
7	2	10	82.6	1007		5.554964	
8	2	19	86.8	1556		6.296143	
9	3	15	88.9	1626	1492	6.768548	
10	1	17	54			7.580379	
11	1	12	91.5			8.140922	
12	1	17	75.1			8.780445	
13	2	11	98.3	1594		9.703061	
14	2	8	66.5	1476		10.135229	
15	2	19	61.1	1584		10.771727	
16	2	7	65.5	1140		11.491798	

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	6	93.2	1018		0.911857	1
1	2	9	54.3	1442		1.993333	
2	2	11	92.3	1251		2.905258	
3	2	17	54.8	1630		3.686997	
4	1	18	74			4.306075	
5	2	16	96.9	1617		5.842566	
6	3	10	88.6	1131	1877	6.812024	
7	1	6	78.9			7.116582	
8	2	6	80.8	1605		8.893846	
9	2	8	58	1738		9.962748	
10	1	11	92.2			10.387878	
11	2	16	86.3	1058		11.833877	

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	10	92.5	1925	1952	0.554399	1
1	3	7	71.4	1608	1357	1.202207	
2	1	9	96.3			2.429788	
3	2	7	92.4	1843		3.284359	
4	2	11	91.7	1577		4.467941	
5	1	16	61.3			5.733238	
6	2	6	52.5	1316		6.547438	
7	1	19	59.1			7.232484	
8	1	15	54.4			8.459896	
9	2	7	87.2	1411		9.816237	
10	1	15	78.7			10.184961	
11	3	5	76	1614	1592	11.799984	

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	15	51.4	1302		0.200647	1
1	1	7	72.2			1.225687	
2	2	6	76.5	1806		1.48949	
3	2	14	83.6	1699		2.535401	
4	1	10	92.6			3.148631	
5	1	15	79.1			3.74878	
6	2	18	50.5	1783		4.659608	
7	3	13	53.7	1172	1912	5.164794	
8	2	8	73.5	1859		6.113885	
9	2	8	54.5	1492		6.554071	
10	2	5	57.5	1008		7.656787	
11	2	16	95.9	1135		8.197208	
12	2	5	65.7	1134		8.833441	
13	2	13	57.3	1279		9.401183	
14	1	10	59			10.111168	
15	1	13	75.6			10.733581	
16	2	10	79.5	1524		11.714656	

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	8	76.1	1119		0.384026	
1	1	17	92.6			0.756752	
2	2	9	50.7	1690		1.41343	
3	3	15	60	1000	1470	2.196064	
4	1	16	51.8			2.982442	
5	2	8	94.8	1289		3.417856	
6	2	7	56.8	1981		4.326006	
7	3	8	61.3	1025	1761	4.778269	
8	2	5	98.6	1058		5.374181	
9	1	18	62.2			5.982523	1
10	3	16	99.5	1966	1749	6.593003	
11	2	15	77.8	1031		7.11953	
12	2	6	53.4	1969		7.767957	
13	2	9	99.2	1382		8.494855	
14	1	16	76.6			9.43004	
15	2	11	95.1	1924		9.872711	
16	2	19	77.6	1627		10.519548	
17	2	12	95.7	1996		11.285658	
18	2	15	53.6	1454		11.926881	

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	87.5	1428		0.54438	
1	2	18	74.2	1902		1.053022	
2	1	6	78.8			2.060923	
3	3	14	81.6	1938	1942	3.064838	
4	2	16	83.5	1779		3.916339	
5	3	5	58.8	1754	1434	5.194407	
6	1	20	97.6			6.279728	1
7	3	19	63.1	1433	1678	6.74691	
8	1	19	58.2			7.505662	
9	3	8	84.4	1737	1185	8.786392	
10	2	17	61.9	1447		9.558739	
11	2	20	70.5	1852		10.620338	
12	2	15	76	1031		11.751879	

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	12	61	1085	1406	0.716423	1
1	1	10	74.7			2.598828	
2	2	7	66.7	1595		4.198394	
3	2	20	58.1	1911		5.312398	
4	1	14	71.4			6.423158	
5	3	8	98	1394	1346	7.668049	
6	3	6	80.8	1505	1662	9.495864	
7	2	8	58.1	1407		11.849303	

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	3	15	91.4	1697	1695	0.22767	1
1	2	9	78	1444		1.127299	
2	2	7	99.7	1256		1.713137	
3	2	7	58.1	1893		2.194862	
4	3	20	92.5	1033	1998	3.343958	
5	3	15	94.8	1318	1517	3.979412	
6	2	7	98.7	1727		4.582908	
7	2	13	77.3	1280		5.201596	
8	1	18	94.3			6.25063	
9	1	17	55.8			6.931884	
10	2	14	73.9	1014		7.378135	
11	1	18	72			7.983666	
12	2	6	63	1199		9.110641	
13	2	19	53.2	1666		9.864688	
14	2	19	65	1618		10.186906	
15	1	11	59.6			11.171652	
16	3	20	88.9	1514	1675	11.424863	

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	16	93.7	1691		0.226418	
1	3	9	73.9	1863	1746	1.63328	
2	2	12	91	1934		2.643332	
3	2	19	64	1094		3.204045	
4	1	7	90.4			3.943811	
5	1	6	63.4			5.296034	
6	2	9	60.4	1049		5.762418	1
7	3	13	55.5	1454	1061	6.848379	
8	2	15	51.4	1735		7.723028	
9	3	11	71.8	1715	1541	9.18974	
10	2	9	80.2	1519		9.597903	
11	2	19	91.9	1542		10.993253	
12	1	7	75.9			11.838467	

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	14	51.4	1148		0.648819	
1	2	17	67.4	1014		0.777489	
2	2	18	78.5	1701		1.341482	
3	2	11	55.2	1440		2.324535	
4	1	15	98.4			3.302017	
5	2	12	64.7	1691		3.834691	
6	1	18	53.5			4.235962	
7	2	12	91.4	1042		5.015463	
8	2	9	99.3	1268		5.536576	1
9	1	13	93.7			6.183653	
10	2	10	75.8	1131		7.278537	
11	2	14	54	1931		7.483916	
12	2	7	89.6	1576		8.496808	
13	2	18	80.1	1397		8.892952	
14	1	14	80.1			9.339778	
15	3	11	70.9	1919	1605	10.04671	
16	2	18	59.3	1930		11.320598	
17	2	10	66.9	1973		11.579935	

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	61.5	1201		0.202254	
1	2	7	62.5	1963		0.992421	
2	3	18	78.9	1099	1038	1.421447	
3	1	17	59.6			2.171539	
4	3	13	65.1	1275	1763	2.722612	
5	3	10	60.9	1065	1691	3.410436	
6	2	17	80.5	1765		4.347842	
7	2	12	66.7	1953		4.891976	
8	3	14	50.4	1975	1515	5.467575	
9	1	10	81.9			6.184454	1
10	2	19	58.2	1371		6.733642	
11	3	16	78.2	1389	1748	7.84257	
12	2	20	68	1262		8.005967	
13	1	15	71.9			8.914439	
14	1	18	60.2			9.820451	
15	2	18	80.8	1915		10.340532	
16	2	20	90.3	1121		11.242393	
17	2	13	66.1	1461		11.473823	

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	15	94.2			0.7913	
1	3	6	97.3	1896	1351	1.181781	
2	2	16	87.6	1014		1.886036	
3	2	5	81.5	1037		3.106039	
4	2	7	64.6	1632		3.573201	
5	1	6	84.5			4.48203	
6	2	19	71.8	1534		5.435865	
7	3	9	52.7	1155	1544	5.984737	1
8	2	8	91.7	1490		6.643977	
9	3	16	94.7	1862	1183	7.723632	
10	2	18	52.5	1214		8.310935	
11	3	14	65.2	1807	1513	9.219207	
12	1	5	58.4			9.71602	
13	3	10	76.6	1512	1088	10.848066	
14	3	9	67.9	1232	1633	11.974989	

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	10	88.8	1426	1395	0.605666	
1	2	16	56.9	1937		0.940933	
2	1	10	52.8			1.804541	
3	3	10	69.4	1707	1949	2.305352	
4	1	11	55.6			2.923461	
5	2	14	56.6	1264		3.808507	
6	2	18	54.5	1080		4.440676	
7	3	19	57.4	1244	2000	5.027427	
8	1	7	54			6.02626	1
9	2	19	81.5	1039		6.698237	
10	2	8	65.5	1838		7.282025	
11	2	13	88.8	1535		7.938476	
12	1	9	82.8			9.075641	
13	1	14	59.3			9.238048	
14	2	16	63.6	1717		10.017805	
15	2	11	94.4	1545		10.934898	
16	1	17	65.3			11.700402	

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	5439.0, 5578.0, 5312.0, 5301.0, 5462.0, 5553.0, 5344.0, 5493.0, 5444.0, 5374.0, 5626.0, 5612.0, 5367.0, 5566.0, 5309.0, 5704.0, 5359.0, 5585.0, 5412.0, 5703.0, 5291.0, 5655.0, 5534.0, 5387.0, 5454.0, 5601.0, 5570.0, 5516.0, 5597.0, 5426.0, 5598.0, 5390.0, 5455.0, 5669.0, 5327.0, 5647.0, 5404.0, 5582.0, 5440.0, 5519.0, 5525.0, 5460.0, 5690.0, 5436.0, 5331.0, 5484.0, 5507.0, 5505.0, 5370.0, 5560.0, 5324.0, 5552.0, 5300.0, 5425.0, 5714.0, 5449.0, 5702.0, 5354.0, 5568.0, 5406.0, 5600.0, 5695.0, 5528.0, 5447.0, 5617.0, 5700.0, 5267.0, 5469.0, 5371.0, 5389.0, 5296.0, 5630.0, 5446.0, 5263.0, 5590.0, 5554.0, 5670.0, 5422.0, 5483.0, 5476.0, 5659.0, 5487.0, 5488.0, 5495.0, 5583.0, 5606.0, 5693.0, 5318.0, 5518.0, 5346.0, 5375.0, 5268.0, 5611.0, 5645.0, 5603.0, 5366.0, 5705.0, 5452.0, 5283.0, 5565.0 (number of hits: 13)
2	5290	9	1	333	1	5523.0, 5564.0, 5287.0, 5618.0, 5476.0, 5612.0, 5598.0, 5266.0, 5448.0, 5438.0, 5341.0, 5429.0, 5415.0, 5722.0, 5543.0, 5382.0, 5347.0, 5496.0, 5569.0, 5573.0, 5553.0, 5505.0, 5297.0, 5360.0, 5604.0, 5682.0, 5714.0, 5433.0, 5708.0, 5453.0, 5528.0, 5577.0, 5414.0, 5291.0, 5587.0, 5545.0, 5340.0, 5300.0, 5424.0, 5365.0, 5395.0, 5672.0, 5261.0, 5275.0, 5456.0, 5265.0, 5548.0, 5463.0, 5479.0, 5615.0, 5651.0, 5483.0, 5393.0, 5289.0, 5706.0, 5703.0, 5251.0, 5432.0, 5430.0, 5342.0, 5368.0, 5686.0, 5557.0, 5399.0, 5434.0, 5623.0, 5715.0, 5337.0, 5370.0, 5541.0, 5520.0, 5502.0, 5691.0, 5655.0, 5254.0, 5532.0, 5452.0, 5397.0, 5592.0, 5549.0, 5699.0, 5500.0, 5253.0, 5599.0, 5646.0, 5312.0, 5455.0, 5319.0, 5426.0, 5357.0, 5590.0, 5332.0, 5645.0, 5428.0, 5605.0, 5562.0, 5331.0, 5583.0, 5570.0, 5259.0 (number of hits: 15)
3	5290	9	1	333	1	5447.0, 5532.0, 5684.0, 5629.0, 5603.0, 5508.0, 5275.0, 5323.0, 5444.0, 5386.0, 5645.0, 5695.0, 5255.0, 5311.0, 5373.0, 5569.0, 5650.0, 5443.0, 5268.0, 5582.0, 5342.0, 5383.0, 5601.0, 5692.0, 5525.0, 5331.0, 5556.0, 5417.0, 5348.0, 5657.0, 5568.0, 5292.0, 5537.0, 5624.0, 5303.0, 5280.0, 5442.0, 5404.0, 5542.0, 5545.0, 5487.0, 5693.0, 5309.0, 5610.0, 5571.0, 5367.0, 5493.0, 5251.0, 5432.0, 5686.0, 5480.0, 5413.0, 5294.0, 5260.0, 5360.0, 5523.0, 5471.0, 5616.0, 5402.0, 5457.0,

						5570.0, 5583.0, 5549.0, 5562.0, 5511.0, 5706.0, 5365.0, 5307.0, 5316.0, 5647.0, 5326.0, 5349.0, 5719.0, 5405.0, 5550.0, 5577.0, 5314.0, 5589.0, 5390.0, 5567.0, 5372.0, 5639.0, 5461.0, 5497.0, 5379.0, 5427.0, 5281.0, 5522.0, 5507.0, 5409.0, 5538.0, 5687.0, 5460.0, 5602.0, 5374.0, 5605.0, 5456.0, 5495.0, 5449.0, 5334.0 (number of hits: 17)
4	5290	9	1	333	1	5641.0, 5314.0, 5723.0, 5272.0, 5451.0, 5717.0, 5511.0, 5355.0, 5655.0, 5373.0, 5539.0, 5481.0, 5349.0, 5353.0, 5269.0, 5368.0, 5495.0, 5551.0, 5576.0, 5463.0, 5702.0, 5640.0, 5287.0, 5549.0, 5433.0, 5347.0, 5483.0, 5722.0, 5611.0, 5606.0, 5512.0, 5671.0, 5523.0, 5476.0, 5493.0, 5587.0, 5320.0, 5428.0, 5407.0, 5625.0, 5426.0, 5354.0, 5596.0, 5648.0, 5298.0, 5352.0, 5618.0, 5468.0, 5413.0, 5475.0, 5581.0, 5293.0, 5472.0, 5419.0, 5678.0, 5710.0, 5605.0, 5268.0, 5692.0, 5277.0, 5687.0, 5714.0, 5484.0, 5366.0, 5473.0, 5312.0, 5711.0, 5379.0, 5416.0, 5471.0, 5322.0, 5357.0, 5316.0, 5295.0, 5437.0, 5406.0, 5467.0, 5568.0, 5533.0, 5333.0, 5607.0, 5370.0, 5642.0, 5643.0, 5613.0, 5558.0, 5276.0, 5290.0, 5564.0, 5674.0, 5264.0, 5593.0, 5284.0, 5297.0, 5639.0, 5440.0, 5309.0, 5636.0, 5336.0, 5371.0 (number of hits: 19)
5	5290	9	1	333	1	5439.0, 5397.0, 5642.0, 5613.0, 5563.0, 5442.0, 5430.0, 5697.0, 5661.0, 5705.0, 5285.0, 5535.0, 5436.0, 5634.0, 5572.0, 5474.0, 5561.0, 5437.0, 5382.0, 5443.0, 5404.0, 5521.0, 5272.0, 5548.0, 5403.0, 5702.0, 5639.0, 5527.0, 5341.0, 5505.0, 5480.0, 5494.0, 5516.0, 5317.0, 5501.0, 5335.0, 5589.0, 5630.0, 5306.0, 5409.0, 5720.0, 5711.0, 5356.0, 5289.0, 5354.0, 5462.0, 5641.0, 5628.0, 5486.0, 5594.0, 5252.0, 5348.0, 5284.0, 5385.0, 5610.0, 5537.0, 5466.0, 5375.0, 5256.0, 5543.0, 5542.0, 5678.0, 5453.0, 5421.0, 5709.0, 5549.0, 5429.0, 5380.0, 5288.0, 5361.0, 5647.0, 5364.0, 5675.0, 5271.0, 5672.0, 5619.0, 5640.0, 5475.0, 5578.0, 5314.0, 5637.0, 5444.0, 5352.0, 5667.0, 5482.0, 5655.0, 5508.0, 5607.0, 5713.0, 5520.0, 5384.0, 5636.0, 5695.0, 5424.0, 5351.0, 5668.0, 5690.0, 5554.0, 5645.0, 5353.0 (number of hits: 11)
6	5290	9	1	333	1	5525.0, 5333.0, 5300.0, 5290.0, 5338.0, 5442.0, 5475.0, 5437.0, 5660.0, 5474.0, 5473.0, 5254.0, 5395.0, 5538.0, 5548.0, 5407.0, 5311.0, 5504.0, 5683.0, 5283.0, 5650.0, 5384.0, 5694.0, 5286.0, 5575.0, 5369.0, 5667.0, 5665.0, 5532.0, 5344.0, 5646.0, 5443.0, 5455.0, 5615.0, 5600.0, 5467.0, 5543.0, 5520.0, 5617.0, 5491.0, 5399.0, 5612.0, 5508.0, 5380.0, 5268.0,

						5524.0, 5339.0, 5592.0, 5404.0, 5470.0, 5492.0, 5565.0, 5317.0, 5287.0, 5546.0, 5693.0, 5301.0, 5434.0, 5541.0, 5279.0, 5704.0, 5277.0, 5441.0, 5530.0, 5679.0, 5721.0, 5622.0, 5579.0, 5566.0, 5651.0, 5597.0, 5674.0, 5722.0, 5294.0, 5714.0, 5330.0, 5555.0, 5618.0, 5280.0, 5412.0, 5673.0, 5629.0, 5649.0, 5564.0, 5336.0, 5386.0, 5560.0, 5588.0, 5522.0, 5331.0, 5468.0, 5262.0, 5677.0, 5632.0, 5715.0, 5325.0, 5608.0, 5709.0, 5406.0, 5563.0 (number of hits: 16)
7	5290	9	1	333	1	5270.0, 5668.0, 5384.0, 5619.0, 5690.0, 5554.0, 5277.0, 5644.0, 5520.0, 5651.0, 5701.0, 5288.0, 5346.0, 5716.0, 5493.0, 5436.0, 5693.0, 5347.0, 5706.0, 5363.0, 5425.0, 5400.0, 5482.0, 5350.0, 5342.0, 5673.0, 5326.0, 5632.0, 5681.0, 5295.0, 5623.0, 5438.0, 5563.0, 5401.0, 5310.0, 5649.0, 5340.0, 5666.0, 5528.0, 5323.0, 5582.0, 5367.0, 5550.0, 5508.0, 5373.0, 5294.0, 5618.0, 5272.0, 5451.0, 5261.0, 5667.0, 5671.0, 5677.0, 5406.0, 5266.0, 5378.0, 5379.0, 5653.0, 5431.0, 5518.0, 5499.0, 5473.0, 5385.0, 5570.0, 5691.0, 5608.0, 5615.0, 5325.0, 5462.0, 5566.0, 5503.0, 5494.0, 5595.0, 5415.0, 5283.0, 5555.0, 5620.0, 5625.0, 5348.0, 5685.0, 5719.0, 5506.0, 5655.0, 5429.0, 5439.0, 5606.0, 5365.0, 5281.0, 5607.0, 5252.0, 5352.0, 5475.0, 5432.0, 5512.0, 5407.0, 5453.0, 5530.0, 5590.0, 5447.0, 5702.0 (number of hits: 15)
8	5290	9	1	333	1	5598.0, 5677.0, 5690.0, 5334.0, 5723.0, 5434.0, 5550.0, 5353.0, 5399.0, 5707.0, 5699.0, 5612.0, 5646.0, 5272.0, 5664.0, 5270.0, 5417.0, 5455.0, 5594.0, 5511.0, 5440.0, 5375.0, 5482.0, 5445.0, 5573.0, 5414.0, 5592.0, 5478.0, 5720.0, 5389.0, 5446.0, 5369.0, 5715.0, 5484.0, 5426.0, 5380.0, 5605.0, 5365.0, 5352.0, 5578.0, 5595.0, 5387.0, 5265.0, 5711.0, 5290.0, 5350.0, 5497.0, 5443.0, 5536.0, 5310.0, 5669.0, 5656.0, 5719.0, 5462.0, 5287.0, 5432.0, 5467.0, 5481.0, 5354.0, 5678.0, 5529.0, 5333.0, 5635.0, 5542.0, 5460.0, 5321.0, 5391.0, 5557.0, 5556.0, 5314.0, 5522.0, 5708.0, 5253.0, 5648.0, 5640.0, 5659.0, 5500.0, 5581.0, 5456.0, 5686.0, 5579.0, 5381.0, 5499.0, 5444.0, 5660.0, 5506.0, 5651.0, 5628.0, 5673.0, 5582.0, 5674.0, 5609.0, 5452.0, 5507.0, 5642.0, 5604.0, 5306.0, 5633.0, 5400.0, 5515.0 (number of hits: 10)
9	5290	9	1	333	1	5564.0, 5344.0, 5365.0, 5666.0, 5254.0, 5281.0, 5573.0, 5435.0, 5533.0, 5404.0, 5301.0, 5390.0, 5621.0, 5555.0, 5594.0, 5411.0, 5504.0, 5545.0, 5506.0, 5572.0, 5302.0, 5274.0, 5649.0, 5684.0, 5551.0, 5272.0, 5459.0, 5470.0, 5711.0, 5347.0,

						5323.0, 5255.0, 5450.0, 5289.0, 5492.0, 5303.0, 5550.0, 5449.0, 5456.0, 5468.0, 5623.0, 5692.0, 5478.0, 5581.0, 5498.0, 5423.0, 5474.0, 5528.0, 5561.0, 5320.0, 5263.0, 5455.0, 5454.0, 5497.0, 5660.0, 5278.0, 5481.0, 5279.0, 5672.0, 5482.0, 5507.0, 5386.0, 5300.0, 5611.0, 5582.0, 5501.0, 5579.0, 5370.0, 5514.0, 5325.0, 5584.0, 5287.0, 5363.0, 5451.0, 5678.0, 5312.0, 5258.0, 5530.0, 5392.0, 5696.0, 5417.0, 5700.0, 5638.0, 5645.0, 5667.0, 5686.0, 5536.0, 5603.0, 5614.0, 5529.0, 5673.0, 5520.0, 5515.0, 5333.0, 5440.0, 5622.0, 5511.0, 5487.0, 5565.0, 5431.0 (number of hits: 19)
10	5290	9	1	333	1	5582.0, 5346.0, 5662.0, 5292.0, 5561.0, 5711.0, 5722.0, 5663.0, 5508.0, 5271.0, 5276.0, 5575.0, 5603.0, 5590.0, 5534.0, 5653.0, 5629.0, 5390.0, 5649.0, 5413.0, 5436.0, 5539.0, 5255.0, 5558.0, 5480.0, 5482.0, 5341.0, 5464.0, 5332.0, 5313.0, 5709.0, 5618.0, 5254.0, 5616.0, 5557.0, 5343.0, 5656.0, 5611.0, 5572.0, 5289.0, 5602.0, 5403.0, 5429.0, 5685.0, 5396.0, 5713.0, 5427.0, 5606.0, 5267.0, 5336.0, 5401.0, 5555.0, 5294.0, 5445.0, 5322.0, 5324.0, 5389.0, 5277.0, 5646.0, 5498.0, 5377.0, 5650.0, 5449.0, 5720.0, 5511.0, 5450.0, 5544.0, 5566.0, 5546.0, 5452.0, 5514.0, 5328.0, 5547.0, 5717.0, 5299.0, 5548.0, 5368.0, 5512.0, 5266.0, 5278.0, 5279.0, 5622.0, 5409.0, 5481.0, 5443.0, 5600.0, 5573.0, 5471.0, 5664.0, 5497.0, 5327.0, 5262.0, 5467.0, 5648.0, 5633.0, 5385.0, 5350.0, 5525.0, 5489.0, 5626.0 (number of hits: 19)
11	5290	9	1	333	1	5656.0, 5362.0, 5289.0, 5516.0, 5308.0, 5339.0, 5681.0, 5618.0, 5610.0, 5535.0, 5550.0, 5407.0, 5710.0, 5707.0, 5486.0, 5481.0, 5595.0, 5547.0, 5285.0, 5445.0, 5684.0, 5607.0, 5514.0, 5337.0, 5573.0, 5269.0, 5647.0, 5554.0, 5417.0, 5716.0, 5513.0, 5593.0, 5268.0, 5563.0, 5696.0, 5322.0, 5427.0, 5558.0, 5451.0, 5381.0, 5473.0, 5612.0, 5685.0, 5281.0, 5380.0, 5687.0, 5423.0, 5265.0, 5370.0, 5474.0, 5546.0, 5714.0, 5701.0, 5636.0, 5562.0, 5560.0, 5292.0, 5279.0, 5543.0, 5501.0, 5442.0, 5434.0, 5277.0, 5307.0, 5506.0, 5323.0, 5699.0, 5309.0, 5655.0, 5449.0, 5619.0, 5598.0, 5521.0, 5430.0, 5553.0, 5624.0, 5705.0, 5652.0, 5662.0, 5522.0, 5639.0, 5320.0, 5613.0, 5330.0, 5658.0, 5428.0, 5465.0, 5266.0, 5491.0, 5441.0, 5378.0, 5484.0, 5628.0, 5709.0, 5375.0, 5703.0, 5412.0, 5454.0, 5386.0, 5688.0 (number of hits: 16)
12	5290	9	1	333	1	5575.0, 5470.0, 5497.0, 5459.0, 5695.0, 5567.0, 5561.0, 5502.0, 5317.0, 5367.0, 5717.0, 5722.0, 5714.0, 5446.0, 5563.0,

						5669.0, 5428.0, 5657.0, 5326.0, 5302.0, 5391.0, 5603.0, 5414.0, 5638.0, 5594.0, 5425.0, 5443.0, 5346.0, 5514.0, 5252.0, 5537.0, 5285.0, 5267.0, 5291.0, 5344.0, 5504.0, 5495.0, 5272.0, 5491.0, 5718.0, 5592.0, 5453.0, 5584.0, 5648.0, 5712.0, 5564.0, 5264.0, 5614.0, 5299.0, 5390.0, 5571.0, 5429.0, 5288.0, 5365.0, 5387.0, 5420.0, 5723.0, 5578.0, 5583.0, 5607.0, 5493.0, 5377.0, 5546.0, 5595.0, 5421.0, 5310.0, 5379.0, 5349.0, 5418.0, 5490.0, 5557.0, 5358.0, 5566.0, 5552.0, 5600.0, 5359.0, 5518.0, 5371.0, 5661.0, 5468.0, 5535.0, 5440.0, 5540.0, 5300.0, 5525.0, 5360.0, 5294.0, 5444.0, 5703.0, 5539.0, 5473.0, 5307.0, 5343.0, 5574.0, 5393.0, 5576.0, 5290.0, 5610.0, 5268.0, 5313.0 (number of hits: 18)
13	5290	9	1	333	1	5412.0, 5557.0, 5465.0, 5312.0, 5663.0, 5698.0, 5272.0, 5340.0, 5569.0, 5701.0, 5328.0, 5329.0, 5400.0, 5542.0, 5561.0, 5255.0, 5371.0, 5450.0, 5675.0, 5428.0, 5298.0, 5705.0, 5252.0, 5352.0, 5693.0, 5628.0, 5556.0, 5510.0, 5346.0, 5537.0, 5655.0, 5549.0, 5395.0, 5493.0, 5721.0, 5295.0, 5449.0, 5715.0, 5529.0, 5681.0, 5601.0, 5488.0, 5519.0, 5528.0, 5258.0, 5396.0, 5284.0, 5281.0, 5279.0, 5297.0, 5317.0, 5278.0, 5383.0, 5322.0, 5292.0, 5648.0, 5389.0, 5339.0, 5550.0, 5682.0, 5370.0, 5332.0, 5266.0, 5431.0, 5578.0, 5259.0, 5445.0, 5593.0, 5565.0, 5399.0, 5378.0, 5633.0, 5600.0, 5599.0, 5577.0, 5666.0, 5425.0, 5603.0, 5398.0, 5367.0, 5299.0, 5626.0, 5358.0, 5498.0, 5592.0, 5310.0, 5584.0, 5602.0, 5589.0, 5564.0, 5699.0, 5692.0, 5440.0, 5429.0, 5423.0, 5476.0, 5546.0, 5274.0, 5393.0, 5637.0 (number of hits: 22)
14	5290	9	1	333	1	5399.0, 5619.0, 5590.0, 5421.0, 5664.0, 5374.0, 5498.0, 5598.0, 5296.0, 5359.0, 5452.0, 5654.0, 5593.0, 5609.0, 5526.0, 5432.0, 5415.0, 5541.0, 5523.0, 5360.0, 5547.0, 5721.0, 5548.0, 5519.0, 5672.0, 5284.0, 5690.0, 5587.0, 5679.0, 5288.0, 5445.0, 5324.0, 5287.0, 5577.0, 5678.0, 5450.0, 5384.0, 5494.0, 5692.0, 5381.0, 5361.0, 5720.0, 5627.0, 5293.0, 5470.0, 5349.0, 5375.0, 5272.0, 5632.0, 5480.0, 5276.0, 5428.0, 5636.0, 5684.0, 5521.0, 5559.0, 5393.0, 5263.0, 5537.0, 5557.0, 5307.0, 5329.0, 5304.0, 5454.0, 5406.0, 5484.0, 5643.0, 5312.0, 5259.0, 5425.0, 5343.0, 5600.0, 5637.0, 5420.0, 5628.0, 5376.0, 5717.0, 5614.0, 5255.0, 5336.0, 5491.0, 5700.0, 5269.0, 5332.0, 5441.0, 5411.0, 5455.0, 5527.0, 5474.0, 5595.0, 5252.0, 5488.0, 5472.0, 5514.0, 5323.0, 5517.0, 5483.0, 5723.0, 5586.0, 5273.0 (number of hits: 19)

15	5290	9	1	333	1	5296.0, 5305.0, 5348.0, 5425.0, 5328.0, 5376.0, 5544.0, 5307.0, 5279.0, 5689.0, 5471.0, 5378.0, 5692.0, 5639.0, 5477.0, 5281.0, 5369.0, 5646.0, 5538.0, 5508.0, 5605.0, 5433.0, 5524.0, 5677.0, 5358.0, 5696.0, 5664.0, 5533.0, 5456.0, 5666.0, 5370.0, 5570.0, 5586.0, 5532.0, 5634.0, 5462.0, 5616.0, 5592.0, 5713.0, 5416.0, 5308.0, 5559.0, 5674.0, 5384.0, 5625.0, 5627.0, 5492.0, 5334.0, 5260.0, 5699.0, 5651.0, 5606.0, 5722.0, 5407.0, 5403.0, 5488.0, 5373.0, 5556.0, 5588.0, 5366.0, 5652.0, 5277.0, 5320.0, 5429.0, 5609.0, 5379.0, 5304.0, 5604.0, 5343.0, 5645.0, 5253.0, 5518.0, 5331.0, 5274.0, 5321.0, 5344.0, 5707.0, 5367.0, 5287.0, 5467.0, 5250.0, 5306.0, 5714.0, 5264.0, 5408.0, 5278.0, 5455.0, 5688.0, 5642.0, 5723.0, 5417.0, 5387.0, 5576.0, 5542.0, 5510.0, 5297.0, 5457.0, 5427.0, 5501.0, 5521.0 (number of hits: 20)
16	5290	9	1	333	1	5333.0, 5496.0, 5569.0, 5455.0, 5663.0, 5421.0, 5429.0, 5535.0, 5669.0, 5528.0, 5288.0, 5275.0, 5450.0, 5430.0, 5466.0, 5454.0, 5374.0, 5720.0, 5608.0, 5446.0, 5404.0, 5688.0, 5500.0, 5254.0, 5485.0, 5541.0, 5278.0, 5699.0, 5364.0, 5673.0, 5273.0, 5325.0, 5674.0, 5682.0, 5645.0, 5558.0, 5393.0, 5473.0, 5553.0, 5277.0, 5532.0, 5449.0, 5274.0, 5604.0, 5310.0, 5346.0, 5266.0, 5451.0, 5700.0, 5484.0, 5582.0, 5431.0, 5387.0, 5614.0, 5283.0, 5335.0, 5544.0, 5662.0, 5617.0, 5656.0, 5639.0, 5409.0, 5357.0, 5384.0, 5262.0, 5611.0, 5293.0, 5309.0, 5437.0, 5351.0, 5440.0, 5348.0, 5650.0, 5594.0, 5385.0, 5580.0, 5475.0, 5490.0, 5312.0, 5572.0, 5660.0, 5557.0, 5658.0, 5470.0, 5433.0, 5279.0, 5329.0, 5696.0, 5287.0, 5587.0, 5483.0, 5326.0, 5717.0, 5534.0, 5453.0, 5256.0, 5677.0, 5632.0, 5601.0, 5606.0 (number of hits: 20)
17	5290	9	1	333	1	5415.0, 5522.0, 5436.0, 5487.0, 5603.0, 5327.0, 5610.0, 5356.0, 5518.0, 5401.0, 5685.0, 5695.0, 5720.0, 5494.0, 5641.0, 5361.0, 5287.0, 5318.0, 5325.0, 5503.0, 5692.0, 5687.0, 5648.0, 5446.0, 5548.0, 5508.0, 5347.0, 5677.0, 5342.0, 5645.0, 5555.0, 5289.0, 5284.0, 5497.0, 5586.0, 5523.0, 5399.0, 5311.0, 5659.0, 5605.0, 5422.0, 5537.0, 5463.0, 5305.0, 5644.0, 5406.0, 5299.0, 5549.0, 5576.0, 5574.0, 5273.0, 5411.0, 5670.0, 5265.0, 5388.0, 5531.0, 5290.0, 5706.0, 5480.0, 5628.0, 5498.0, 5427.0, 5502.0, 5272.0, 5714.0, 5563.0, 5428.0, 5370.0, 5440.0, 5257.0, 5722.0, 5345.0, 5256.0, 5459.0, 5718.0, 5708.0, 5434.0, 5286.0, 5310.0, 5504.0, 5481.0, 5562.0, 5309.0, 5431.0, 5321.0, 5509.0, 5335.0, 5698.0, 5662.0, 5617.0,

						5371.0, 5317.0, 5567.0, 5643.0, 5554.0, 5444.0, 5456.0, 5517.0, 5621.0, 5403.0 (number of hits: 20)
18	5290	9	1	333	1	5720.0, 5419.0, 5412.0, 5422.0, 5639.0, 5583.0, 5622.0, 5635.0, 5459.0, 5551.0, 5271.0, 5524.0, 5293.0, 5601.0, 5455.0, 5287.0, 5660.0, 5470.0, 5346.0, 5332.0, 5689.0, 5352.0, 5640.0, 5377.0, 5605.0, 5509.0, 5430.0, 5546.0, 5282.0, 5317.0, 5646.0, 5277.0, 5385.0, 5566.0, 5281.0, 5672.0, 5496.0, 5503.0, 5487.0, 5369.0, 5569.0, 5716.0, 5301.0, 5706.0, 5586.0, 5407.0, 5359.0, 5382.0, 5626.0, 5638.0, 5694.0, 5600.0, 5598.0, 5323.0, 5708.0, 5625.0, 5262.0, 5275.0, 5722.0, 5588.0, 5444.0, 5618.0, 5590.0, 5614.0, 5365.0, 5390.0, 5584.0, 5350.0, 5357.0, 5565.0, 5298.0, 5619.0, 5650.0, 5445.0, 5575.0, 5254.0, 5498.0, 5255.0, 5577.0, 5414.0, 5473.0, 5272.0, 5347.0, 5401.0, 5494.0, 5593.0, 5693.0, 5652.0, 5482.0, 5279.0, 5299.0, 5724.0, 5413.0, 5274.0, 5623.0, 5468.0, 5343.0, 5358.0, 5251.0, 5538.0 (number of hits: 19)
19	5290	9	1	333	1	5644.0, 5305.0, 5660.0, 5535.0, 5267.0, 5300.0, 5606.0, 5434.0, 5618.0, 5455.0, 5253.0, 5318.0, 5582.0, 5578.0, 5315.0, 5687.0, 5503.0, 5252.0, 5568.0, 5575.0, 5254.0, 5723.0, 5413.0, 5458.0, 5592.0, 5539.0, 5410.0, 5264.0, 5674.0, 5348.0, 5328.0, 5580.0, 5667.0, 5469.0, 5416.0, 5306.0, 5353.0, 5639.0, 5271.0, 5347.0, 5528.0, 5548.0, 5675.0, 5672.0, 5603.0, 5638.0, 5695.0, 5281.0, 5526.0, 5349.0, 5344.0, 5423.0, 5585.0, 5668.0, 5663.0, 5364.0, 5255.0, 5611.0, 5476.0, 5345.0, 5346.0, 5588.0, 5298.0, 5633.0, 5386.0, 5472.0, 5647.0, 5295.0, 5398.0, 5256.0, 5303.0, 5452.0, 5404.0, 5549.0, 5283.0, 5367.0, 5289.0, 5284.0, 5431.0, 5354.0, 5627.0, 5511.0, 5460.0, 5698.0, 5307.0, 5326.0, 5485.0, 5415.0, 5270.0, 5562.0, 5587.0, 5538.0, 5414.0, 5479.0, 5520.0, 5500.0, 5598.0, 5493.0, 5494.0, 5722.0 (number of hits: 24)
20	5290	9	1	333	1	5598.0, 5318.0, 5482.0, 5718.0, 5359.0, 5341.0, 5476.0, 5670.0, 5668.0, 5441.0, 5393.0, 5589.0, 5415.0, 5702.0, 5485.0, 5455.0, 5372.0, 5417.0, 5458.0, 5483.0, 5420.0, 5373.0, 5337.0, 5555.0, 5609.0, 5604.0, 5582.0, 5446.0, 5672.0, 5324.0, 5515.0, 5404.0, 5638.0, 5692.0, 5426.0, 5381.0, 5648.0, 5569.0, 5374.0, 5363.0, 5388.0, 5625.0, 5471.0, 5338.0, 5687.0, 5706.0, 5418.0, 5464.0, 5689.0, 5553.0, 5428.0, 5437.0, 5260.0, 5597.0, 5257.0, 5699.0, 5410.0, 5379.0, 5284.0, 5273.0, 5474.0, 5349.0, 5705.0, 5412.0, 5278.0, 5302.0, 5491.0, 5694.0, 5673.0, 5316.0, 5713.0, 5444.0, 5282.0, 5447.0, 5327.0,

						5335.0, 5496.0, 5366.0, 5427.0, 5438.0, 5524.0, 5336.0, 5292.0, 5448.0, 5527.0, 5505.0, 5433.0, 5529.0, 5398.0, 5411.0, 5630.0, 5656.0, 5635.0, 5615.0, 5522.0, 5419.0, 5328.0, 5650.0, 5494.0, 5564.0 (number of hits: 13)
21	5290	9	1	333	1	5696.0, 5262.0, 5463.0, 5532.0, 5380.0, 5392.0, 5609.0, 5499.0, 5660.0, 5501.0, 5459.0, 5336.0, 5628.0, 5636.0, 5675.0, 5585.0, 5713.0, 5390.0, 5600.0, 5603.0, 5601.0, 5327.0, 5460.0, 5297.0, 5520.0, 5292.0, 5256.0, 5456.0, 5493.0, 5564.0, 5507.0, 5397.0, 5307.0, 5396.0, 5577.0, 5674.0, 5492.0, 5285.0, 5592.0, 5663.0, 5537.0, 5708.0, 5488.0, 5490.0, 5376.0, 5283.0, 5328.0, 5467.0, 5420.0, 5484.0, 5512.0, 5624.0, 5541.0, 5551.0, 5360.0, 5582.0, 5293.0, 5325.0, 5320.0, 5583.0, 5403.0, 5695.0, 5703.0, 5619.0, 5418.0, 5284.0, 5310.0, 5610.0, 5549.0, 5575.0, 5280.0, 5563.0, 5259.0, 5429.0, 5533.0, 5308.0, 5657.0, 5483.0, 5558.0, 5458.0, 5326.0, 5654.0, 5527.0, 5659.0, 5329.0, 5666.0, 5472.0, 5415.0, 5379.0, 5351.0, 5684.0, 5669.0, 5586.0, 5304.0, 5466.0, 5250.0, 5358.0, 5337.0, 5342.0, 5678.0 (number of hits: 21)
22	5290	9	1	333	1	5571.0, 5437.0, 5636.0, 5525.0, 5407.0, 5301.0, 5268.0, 5308.0, 5314.0, 5395.0, 5535.0, 5400.0, 5699.0, 5621.0, 5561.0, 5342.0, 5565.0, 5383.0, 5668.0, 5711.0, 5502.0, 5321.0, 5598.0, 5678.0, 5548.0, 5280.0, 5605.0, 5508.0, 5468.0, 5609.0, 5345.0, 5336.0, 5258.0, 5683.0, 5444.0, 5606.0, 5692.0, 5384.0, 5388.0, 5599.0, 5664.0, 5427.0, 5358.0, 5693.0, 5337.0, 5706.0, 5335.0, 5647.0, 5582.0, 5688.0, 5581.0, 5507.0, 5541.0, 5510.0, 5540.0, 5415.0, 5397.0, 5293.0, 5482.0, 5440.0, 5259.0, 5290.0, 5506.0, 5518.0, 5347.0, 5669.0, 5371.0, 5414.0, 5422.0, 5330.0, 5419.0, 5375.0, 5380.0, 5559.0, 5513.0, 5586.0, 5424.0, 5620.0, 5405.0, 5702.0, 5421.0, 5649.0, 5622.0, 5675.0, 5527.0, 5608.0, 5325.0, 5690.0, 5466.0, 5523.0, 5452.0, 5648.0, 5526.0, 5656.0, 5716.0, 5295.0, 5253.0, 5479.0, 5511.0, 5567.0 (number of hits: 13)
23	5290	9	1	333	1	5320.0, 5663.0, 5288.0, 5405.0, 5513.0, 5696.0, 5397.0, 5604.0, 5544.0, 5258.0, 5425.0, 5398.0, 5570.0, 5343.0, 5400.0, 5312.0, 5679.0, 5704.0, 5290.0, 5670.0, 5454.0, 5617.0, 5699.0, 5358.0, 5406.0, 5560.0, 5415.0, 5612.0, 5340.0, 5598.0, 5662.0, 5694.0, 5317.0, 5488.0, 5705.0, 5311.0, 5299.0, 5431.0, 5287.0, 5469.0, 5277.0, 5537.0, 5585.0, 5685.0, 5684.0, 5423.0, 5652.0, 5577.0, 5291.0, 5371.0, 5691.0, 5373.0, 5483.0, 5646.0, 5304.0, 5690.0, 5594.0, 5504.0, 5485.0, 5438.0,

						5545.0, 5418.0, 5664.0, 5322.0, 5693.0, 5351.0, 5630.0, 5647.0, 5315.0, 5712.0, 5525.0, 5644.0, 5610.0, 5562.0, 5527.0, 5389.0, 5306.0, 5581.0, 5329.0, 5601.0, 5314.0, 5547.0, 5603.0, 5716.0, 5269.0, 5676.0, 5251.0, 5413.0, 5380.0, 5390.0, 5701.0, 5452.0, 5563.0, 5531.0, 5721.0, 5426.0, 5715.0, 5344.0, 5419.0, 5673.0 (number of hits: 19)
24	5290	9	1	333	1	5454.0, 5408.0, 5649.0, 5580.0, 5340.0, 5336.0, 5602.0, 5515.0, 5612.0, 5426.0, 5309.0, 5383.0, 5578.0, 5256.0, 5548.0, 5271.0, 5259.0, 5448.0, 5516.0, 5343.0, 5283.0, 5322.0, 5701.0, 5308.0, 5709.0, 5532.0, 5478.0, 5425.0, 5298.0, 5305.0, 5262.0, 5385.0, 5563.0, 5703.0, 5456.0, 5558.0, 5338.0, 5370.0, 5550.0, 5477.0, 5630.0, 5400.0, 5643.0, 5711.0, 5667.0, 5387.0, 5523.0, 5535.0, 5499.0, 5311.0, 5577.0, 5361.0, 5267.0, 5472.0, 5557.0, 5596.0, 5398.0, 5706.0, 5511.0, 5512.0, 5356.0, 5281.0, 5255.0, 5708.0, 5609.0, 5592.0, 5362.0, 5688.0, 5415.0, 5705.0, 5682.0, 5547.0, 5613.0, 5275.0, 5254.0, 5659.0, 5553.0, 5555.0, 5321.0, 5690.0, 5696.0, 5549.0, 5633.0, 5461.0, 5573.0, 5720.0, 5467.0, 5287.0, 5411.0, 5269.0, 5591.0, 5491.0, 5380.0, 5530.0, 5319.0, 5562.0, 5710.0, 5518.0, 5574.0, 5507.0 (number of hits: 20)
25	5290	9	1	333	1	5722.0, 5488.0, 5609.0, 5585.0, 5313.0, 5370.0, 5622.0, 5575.0, 5621.0, 5424.0, 5338.0, 5652.0, 5475.0, 5450.0, 5358.0, 5629.0, 5347.0, 5586.0, 5340.0, 5709.0, 5322.0, 5657.0, 5666.0, 5355.0, 5362.0, 5349.0, 5368.0, 5625.0, 5571.0, 5562.0, 5491.0, 5464.0, 5494.0, 5266.0, 5350.0, 5434.0, 5351.0, 5640.0, 5339.0, 5293.0, 5683.0, 5436.0, 5542.0, 5253.0, 5724.0, 5547.0, 5702.0, 5677.0, 5289.0, 5265.0, 5353.0, 5580.0, 5635.0, 5306.0, 5258.0, 5539.0, 5409.0, 5497.0, 5517.0, 5458.0, 5344.0, 5309.0, 5417.0, 5465.0, 5372.0, 5594.0, 5301.0, 5460.0, 5693.0, 5294.0, 5588.0, 5613.0, 5541.0, 5707.0, 5706.0, 5644.0, 5390.0, 5595.0, 5599.0, 5304.0, 5284.0, 5715.0, 5297.0, 5264.0, 5505.0, 5307.0, 5603.0, 5296.0, 5411.0, 5690.0, 5574.0, 5522.0, 5360.0, 5272.0, 5278.0, 5501.0, 5447.0, 5654.0, 5678.0, 5281.0 (number of hits: 21)
26	5290	9	1	333	1	5315.0, 5495.0, 5255.0, 5545.0, 5366.0, 5397.0, 5392.0, 5488.0, 5348.0, 5597.0, 5548.0, 5375.0, 5408.0, 5273.0, 5558.0, 5307.0, 5571.0, 5674.0, 5313.0, 5445.0, 5280.0, 5318.0, 5393.0, 5402.0, 5422.0, 5270.0, 5354.0, 5673.0, 5483.0, 5518.0, 5684.0, 5425.0, 5265.0, 5294.0, 5494.0, 5711.0, 5598.0, 5309.0, 5493.0, 5379.0, 5484.0, 5577.0, 5695.0, 5698.0, 5715.0,

						5283.0, 5423.0, 5290.0, 5587.0, 5570.0, 5293.0, 5634.0, 5401.0, 5288.0, 5477.0, 5531.0, 5636.0, 5428.0, 5413.0, 5448.0, 5676.0, 5276.0, 5550.0, 5369.0, 5398.0, 5444.0, 5269.0, 5540.0, 5678.0, 5592.0, 5671.0, 5574.0, 5331.0, 5721.0, 5632.0, 5534.0, 5347.0, 5535.0, 5316.0, 5586.0, 5589.0, 5544.0, 5377.0, 5333.0, 5410.0, 5285.0, 5473.0, 5399.0, 5511.0, 5365.0, 5562.0, 5362.0, 5498.0, 5336.0, 5523.0, 5510.0, 5687.0, 5708.0, 5606.0, 5575.0 (number of hits: 19)
27	5290	9	1	333	1	5591.0, 5542.0, 5651.0, 5635.0, 5383.0, 5433.0, 5382.0, 5721.0, 5468.0, 5255.0, 5709.0, 5700.0, 5331.0, 5549.0, 5472.0, 5333.0, 5325.0, 5289.0, 5341.0, 5317.0, 5264.0, 5508.0, 5445.0, 5704.0, 5619.0, 5517.0, 5358.0, 5699.0, 5670.0, 5369.0, 5541.0, 5374.0, 5294.0, 5611.0, 5419.0, 5582.0, 5656.0, 5556.0, 5660.0, 5607.0, 5456.0, 5629.0, 5642.0, 5623.0, 5683.0, 5291.0, 5416.0, 5384.0, 5415.0, 5672.0, 5353.0, 5505.0, 5564.0, 5485.0, 5525.0, 5296.0, 5319.0, 5671.0, 5621.0, 5501.0, 5299.0, 5622.0, 5504.0, 5272.0, 5516.0, 5462.0, 5452.0, 5529.0, 5292.0, 5388.0, 5566.0, 5524.0, 5342.0, 5691.0, 5599.0, 5300.0, 5413.0, 5555.0, 5395.0, 5412.0, 5567.0, 5373.0, 5593.0, 5363.0, 5444.0, 5694.0, 5469.0, 5275.0, 5585.0, 5596.0, 5352.0, 5337.0, 5648.0, 5515.0, 5558.0, 5407.0, 5334.0, 5340.0, 5649.0, 5646.0 (number of hits: 14)
28	5290	9	1	333	1	5266.0, 5570.0, 5267.0, 5278.0, 5450.0, 5442.0, 5340.0, 5383.0, 5308.0, 5259.0, 5618.0, 5441.0, 5275.0, 5375.0, 5511.0, 5356.0, 5640.0, 5411.0, 5602.0, 5584.0, 5421.0, 5668.0, 5544.0, 5692.0, 5716.0, 5496.0, 5586.0, 5519.0, 5591.0, 5262.0, 5449.0, 5331.0, 5323.0, 5664.0, 5443.0, 5563.0, 5332.0, 5405.0, 5711.0, 5714.0, 5499.0, 5355.0, 5310.0, 5512.0, 5541.0, 5705.0, 5632.0, 5440.0, 5703.0, 5307.0, 5346.0, 5649.0, 5364.0, 5608.0, 5599.0, 5679.0, 5431.0, 5480.0, 5633.0, 5626.0, 5607.0, 5628.0, 5606.0, 5585.0, 5537.0, 5371.0, 5713.0, 5672.0, 5419.0, 5316.0, 5320.0, 5666.0, 5630.0, 5533.0, 5615.0, 5412.0, 5507.0, 5482.0, 5681.0, 5625.0, 5486.0, 5473.0, 5661.0, 5696.0, 5722.0, 5651.0, 5458.0, 5639.0, 5399.0, 5708.0, 5671.0, 5318.0, 5522.0, 5657.0, 5286.0, 5283.0, 5285.0, 5491.0, 5360.0, 5426.0 (number of hits: 16)
29	5290	9	1	333	1	5406.0, 5477.0, 5586.0, 5401.0, 5535.0, 5492.0, 5334.0, 5566.0, 5575.0, 5485.0, 5388.0, 5511.0, 5532.0, 5439.0, 5299.0, 5305.0, 5323.0, 5701.0, 5650.0, 5649.0, 5345.0, 5659.0, 5557.0, 5371.0, 5574.0, 5484.0, 5519.0, 5599.0, 5672.0, 5261.0,

						5708.0, 5429.0, 5554.0, 5592.0, 5543.0, 5462.0, 5417.0, 5501.0, 5341.0, 5332.0, 5601.0, 5289.0, 5547.0, 5391.0, 5267.0, 5461.0, 5442.0, 5550.0, 5436.0, 5583.0, 5479.0, 5711.0, 5304.0, 5425.0, 5460.0, 5619.0, 5602.0, 5438.0, 5281.0, 5552.0, 5368.0, 5580.0, 5482.0, 5634.0, 5331.0, 5324.0, 5518.0, 5454.0, 5680.0, 5330.0, 5466.0, 5272.0, 5374.0, 5451.0, 5600.0, 5605.0, 5640.0, 5639.0, 5567.0, 5613.0, 5357.0, 5290.0, 5367.0, 5504.0, 5445.0, 5660.0, 5328.0, 5286.0, 5404.0, 5333.0, 5696.0, 5348.0, 5517.0, 5287.0, 5396.0, 5285.0, 5500.0, 5402.0, 5434.0, 5505.0 (number of hits: 15)
30	5290	9	1	333	1	5366.0, 5290.0, 5597.0, 5297.0, 5697.0, 5441.0, 5535.0, 5459.0, 5581.0, 5400.0, 5702.0, 5344.0, 5308.0, 5402.0, 5301.0, 5425.0, 5507.0, 5472.0, 5480.0, 5275.0, 5585.0, 5294.0, 5510.0, 5566.0, 5256.0, 5313.0, 5553.0, 5302.0, 5631.0, 5406.0, 5388.0, 5261.0, 5468.0, 5537.0, 5412.0, 5303.0, 5327.0, 5608.0, 5503.0, 5250.0, 5612.0, 5471.0, 5500.0, 5295.0, 5602.0, 5571.0, 5546.0, 5534.0, 5626.0, 5668.0, 5488.0, 5438.0, 5364.0, 5331.0, 5360.0, 5375.0, 5455.0, 5681.0, 5580.0, 5257.0, 5433.0, 5543.0, 5450.0, 5385.0, 5365.0, 5627.0, 5646.0, 5427.0, 5616.0, 5695.0, 5319.0, 5333.0, 5513.0, 5431.0, 5552.0, 5680.0, 5589.0, 5588.0, 5284.0, 5630.0, 5463.0, 5474.0, 5408.0, 5410.0, 5520.0, 5709.0, 5345.0, 5654.0, 5253.0, 5497.0, 5647.0, 5338.0, 5700.0, 5309.0, 5377.0, 5493.0, 5424.0, 5703.0, 5384.0, 5532.0 (number of hits: 19)

5530 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	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 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	18	1	1428	1
2	5530	18	1	1428	1
3	5530	18	1	1428	1
4	5530	18	1	1428	1
5	5530	18	1	1428	1
6	5530	18	1	1428	1
7	5530	18	1	1428	1
8	5530	18	1	1428	1
9	5530	18	1	1428	1
10	5530	18	1	1428	1
11	5530	18	1	1428	1
12	5530	18	1	1428	1
13	5530	18	1	1428	1
14	5530	18	1	1428	1
15	5530	18	1	1428	1
16	5530	18	1	1428	1
17	5530	18	1	1428	1
18	5530	18	1	1428	1
19	5530	18	1	1428	1
20	5530	18	1	1428	1
21	5530	18	1	1428	1
22	5530	18	1	1428	1
23	5530	18	1	1428	1
24	5530	18	1	1428	1
25	5530	18	1	1428	1
26	5530	18	1	1428	1
27	5530	18	1	1428	1
28	5530	18	1	1428	1
29	5530	18	1	1428	1
30	5530	18	1	1428	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	24	1.4	162	1
2	5530	23	4.4	185	1
3	5530	24	3	155	1
4	5530	28	4.6	229	1
5	5530	24	3.6	209	1
6	5530	28	4.9	195	1
7	5530	25	2.3	225	1
8	5530	25	1.5	224	1
9	5530	26	3.2	208	1
10	5530	25	3.9	216	1
11	5530	29	2.2	155	1
12	5530	28	1.1	208	1
13	5530	28	2.9	163	1
14	5530	23	1.2	166	1
15	5530	28	2.4	169	1
16	5530	23	3.5	212	1
17	5530	23	3.8	175	1
18	5530	28	4.5	159	1
19	5530	26	1	222	1
20	5530	28	1.4	190	1
21	5530	28	2.8	225	1
22	5530	29	2.3	227	1
23	5530	27	4.8	180	1
24	5530	24	1.4	160	1
25	5530	23	4.8	151	1
26	5530	28	3.8	181	1
27	5530	26	1.2	173	1
28	5530	25	1.2	168	1
29	5530	29	2	216	1
30	5530	28	3.1	180	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	6.4	297	1
2	5530	18	7	373	1
3	5530	17	6.2	460	1
4	5530	17	10	494	1
5	5530	18	9.6	495	1
6	5530	16	6.8	373	1
7	5530	17	7.6	474	1
8	5530	17	9	351	1
9	5530	16	8.4	386	1
10	5530	18	6.2	336	1
11	5530	16	7.1	289	1
12	5530	16	7.7	306	1
13	5530	18	6.8	364	1
14	5530	17	6.8	341	1
15	5530	17	6.3	282	1
16	5530	18	9.6	234	1
17	5530	18	7.7	250	1
18	5530	17	6	329	1
19	5530	17	6.1	430	1
20	5530	18	8	304	1
21	5530	17	6.4	464	1
22	5530	18	7.3	303	1
23	5530	18	8.9	389	1
24	5530	18	6.6	394	1
25	5530	18	8.5	215	1
26	5530	18	6	271	1
27	5530	16	9.1	375	1
28	5530	18	7.9	413	1
29	5530	17	7.5	266	1
30	5530	18	9.9	416	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	15	11.2	393	1
2	5530	15	17.6	279	1
3	5530	12	13.4	272	1
4	5530	15	14.7	226	1
5	5530	12	16.5	489	1
6	5530	14	14.5	472	1
7	5530	14	15.4	494	1
8	5530	16	19.1	234	1
9	5530	15	20	222	1
10	5530	13	16.9	286	1
11	5530	13	17.4	307	1
12	5530	15	15.4	336	1
13	5530	15	20	333	1
14	5530	15	13.7	296	1
15	5530	14	18.2	420	1
16	5530	15	11.7	259	1
17	5530	12	13.4	302	1
18	5530	14	17	455	1
19	5530	16	16.8	424	1
20	5530	16	16.2	310	1
21	5530	16	12.7	396	1
22	5530	13	11.2	426	1
23	5530	15	15.7	278	1
24	5530	12	19.5	207	1
25	5530	12	13.7	306	1
26	5530	16	11.4	224	1
27	5530	16	18.8	369	1
28	5530	12	13.2	334	1
29	5530	13	15.6	329	1
30	5530	15	16.1	307	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	3	10	60.1	1779	1460	0.335682	1
1	2	17	69.2	1149		0.979826	
2	2	7	88.7	1152		1.786679	
3	1	8	56.4			2.361209	
4	3	8	51.4	1893	1607	3.675526	
5	1	13	89.6			4.018225	
6	1	17	61.5			4.622028	
7	2	7	81.9	1105		5.846309	
8	2	15	95.9	1915		6.268661	
9	1	19	60			6.846229	
10	3	13	96.8	1780	1680	8.198209	
11	2	7	56.5	1544		8.388076	
12	2	7	50.2	1596		9.348519	
13	3	6	69.8	1373	1334	10.419824	
14	3	17	81.5	1616	1790	10.828208	
15	2	17	89.3	1334		11.786442	

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	84.4			0.234084	1
1	3	6	83.1	1258	1468	1.689755	
2	2	17	84.2	1116		2.423147	
3	2	14	78.6	1048		3.951958	
4	1	18	71			4.808936	
5	2	5	94.7	1952		5.129756	
6	2	13	84.8	1774		6.837533	
7	2	6	76	1319		7.421511	
8	3	7	55.2	1857	1990	8.488737	
9	2	6	79.2	1938		9.324942	
10	1	17	95			10.774485	
11	1	8	67.5			11.37341	

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	90.3	1039		0.089358	
1	2	13	64.2	1019		1.425198	
2	3	6	81.9	1537	1404	2.133697	
3	2	15	99.3	1565		2.777006	
4	2	17	68	1124		3.732693	
5	2	17	62.2	1662		4.350556	
6	2	8	95	1226		5.180428	
7	2	18	58.1	1571		6.368166	1
8	3	8	91.8	1228	1258	7.180733	
9	3	19	81.1	1659	1485	7.925539	
10	1	18	73.7			8.661039	
11	1	14	81.2			8.989799	
12	3	20	53.6	1342	1365	10.358859	
13	3	9	62.5	1349	1147	11.04859	
14	3	12	98.9	1721	1702	11.870669	

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	9	62.9	1414		0.471163	
1	2	7	61.9	1297		0.978674	
2	2	13	60.8	1489		2.14531	
3	2	12	76.6	1177		2.954247	
4	3	17	50.4	1949	1935	3.855884	
5	2	14	97.3	1736		5.132666	
6	2	9	77.3	1821		5.875549	
7	2	15	99	1274		6.503297	1
8	2	19	66.4	1008		7.360321	
9	2	12	96.5	1346		7.906597	
10	1	12	61.7			8.897236	
11	2	15	77.1	1761		9.665991	
12	2	13	54.7	1291		11.063149	
13	3	7	53	1664	1655	11.802094	

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	20	89.2	1211		0.713659	1
1	2	15	69.1	1461		1.402845	
2	2	10	72.2	1172		2.562127	
3	2	17	76.9	1439		3.395769	
4	3	11	90.4	1108	1129	3.710265	
5	3	13	77.4	1708	1221	4.452652	
6	2	11	78.9	1856		5.334526	
7	3	11	63.5	1637	1821	6.504856	
8	2	13	71.6	1129		7.695558	
9	2	15	66.5	1193		8.32827	
10	2	11	90.6	1857		8.795931	
11	3	12	57	1988	1235	9.663009	
12	2	19	81.1	1556		10.718271	
13	1	11	52.4			11.171939	

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	15	92.8	1312		0.862446	1
1	3	20	58	1107	1224	1.238003	
2	3	13	68.9	1731	1098	2.262465	
3	3	11	55.6	1048	1400	3.799101	
4	1	16	64.7			4.762382	
5	3	8	62.6	1774	1166	6.341492	
6	3	12	59.4	1650	1882	7.346596	
7	2	11	72.2	1652		8.468652	
8	2	5	95.9	1467		9.32363	
9	3	13	56.1	1023	1397	10.729678	
10	1	16	94.2			11.768914	

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	15	82.3	1903		0.47057	1
1	2	16	84.6	1133		1.42509	
2	3	16	85.1	1608	1318	1.540121	
3	2	12	88.7	1756		2.314619	
4	3	14	95.6	1400	1703	3.331344	
5	3	13	58	1567	1721	4.167217	
6	3	6	85.1	1843	1601	5.013208	
7	2	18	72.2	1852		5.662127	
8	2	12	63.5	1260		6.444846	
9	2	17	91.5	1984		7.446983	
10	3	7	54.6	1744	1595	7.619356	
11	3	7	59.8	1360	1908	8.876595	
12	1	12	58.4			9.340898	
13	1	7	91.6			10.242324	
14	2	8	97.5	1400		10.718121	
15	1	6	66.4			11.281499	

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	80.4	1953		0.37306	1
1	1	16	83.1			0.780563	
2	2	17	54.6	1515		1.86958	
3	2	17	68.3	1931		2.476771	
4	1	9	69.4			3.280886	
5	2	16	79.2	1949		3.846003	
6	1	12	96.5			4.846192	
7	2	9	68.3	1919		5.531366	
8	2	16	77.2	1463		5.809643	
9	3	15	76.7	1780	1489	6.553272	
10	2	16	73.8	1833		7.750582	
11	3	17	88	1284	1868	7.817913	
12	3	9	86.2	1992	1418	8.856659	
13	3	6	97	1928	1997	9.758848	
14	3	15	90.8	1429	1580	10.389341	
15	1	6	52.1			10.836024	
16	1	19	98			11.831392	

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	12	98.9	1204		0.157741	1
1	3	8	92.2	1275	1665	1.284975	
2	1	9	97.1			2.276418	
3	3	6	76.5	1229	1235	3.034526	
4	2	15	55.3	1836		3.78693	
5	2	18	70.1	1821		4.748235	
6	2	10	77.8	1014		5.27927	
7	2	11	53.6	1510		6.069056	
8	3	20	74.9	1356	1633	7.356186	
9	2	8	96.9	1293		7.823548	
10	2	8	66.8	1115		8.678795	
11	2	9	64.2	1679		9.518508	
12	2	19	99.6	1267		10.960402	
13	1	12	77.6			11.863279	

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	16	74.1			0.084432	1
1	1	19	63.6			1.226503	
2	3	8	64.8	1738	1925	2.625	
3	3	9	87.4	1897	1264	4.103584	
4	2	10	57.6	1941		5.180301	
5	2	5	70.4	1038		6.230886	
6	2	10	91.3	1787		7.35541	
7	2	15	96.8	1493		7.645063	
8	3	8	73	1617	1809	9.362995	
9	1	10	52.3			10.163059	
10	3	13	55.2	1066	1558	11.4211	

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	14	50.3	1591	1615	0.264209	1
1	1	12	96.6			0.749943	
2	3	19	99.8	1363	1992	1.6558	
3	2	13	99.7	1536		2.434864	
4	2	16	94.5	1326		3.109456	
5	2	16	82.8	1350		3.648745	
6	3	7	82.3	1194	1805	4.580568	
7	3	11	86.6	1583	1403	4.839813	
8	3	7	79.1	1762	1159	5.655778	
9	2	6	79.8	1560		6.1465	
10	1	17	87.2			6.768468	
11	2	6	93.2	1511		7.476595	
12	1	6	81.8			8.511839	
13	2	14	85.2	1385		8.891395	
14	3	20	79.1	1560	1341	9.586221	
15	2	13	68.5	1944		10.247015	
16	3	7	54.5	1121	1747	11.256359	
17	1	17	95.6			11.936513	

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	13	82.5	1693		0.606131	1
1	1	7	65.9			1.28304	
2	2	5	64.7	1660		1.782166	
3	1	16	100			2.228255	
4	2	5	57	1360		2.755913	
5	3	18	58.1	1912	1537	3.974905	
6	2	20	76.2	1174		4.491177	
7	2	8	97.2	1972		4.98679	
8	2	13	73.1	1180		5.882493	
9	2	6	61.3	1172		6.192869	
10	3	9	57.3	1788	1271	6.962364	
11	2	16	67.2	1379		7.419805	
12	2	13	79.8	1128		8.655044	
13	1	15	90.6			8.748771	
14	2	5	87.7	1943		9.985138	
15	2	15	63.1	1571		10.510385	
16	3	15	69.1	1210	1631	10.960703	
17	1	15	82.9			11.547008	

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	19	58.5	1630		0.043527	1
1	3	10	74	1167	1508	1.291317	
2	1	11	52.3			1.521758	
3	1	19	68.3			2.611699	
4	3	19	67.7	1782	1567	3.048305	
5	1	15	88.1			4.315148	
6	1	17	73.8			4.79843	
7	1	9	83			5.321854	
8	1	14	91.4			6.157771	
9	2	6	95.9	1180		7.440859	
10	2	6	59.6	1700		7.784087	
11	2	8	88.2	1099		8.821166	
12	2	19	83	1815		9.187945	
13	2	13	72.5	1964		10.265126	
14	3	11	93.8	1881	1263	11.061875	
15	3	8	74.6	1405	1368	11.865395	

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	18	57.5	1712		0.416123	1
1	1	11	62.7			1.678471	
2	2	15	63.3	1897		2.696106	
3	2	15	51.9	1933		4.394634	
4	2	10	76.4	1182		5.774124	
5	3	15	74.6	1406	1646	7.898116	
6	2	18	96.4	1202		9.15929	
7	3	5	56.9	1095	1084	9.530082	
8	3	9	81	1869	1486	11.208691	

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	1	10	76.8			0.765043	1
1	3	18	60.6	1755	1079	1.14272	
2	1	14	88.8			2.820902	
3	2	7	58.4	1457		3.305876	
4	2	6	57.4	1561		4.034423	
5	2	19	82.3	1545		5.221815	
6	2	13	97.5	1423		6.300038	
7	3	20	76.7	1013	1735	7.456609	
8	1	16	70.9			8.283336	
9	2	15	76.6	1196		9.034754	
10	3	14	65.4	1725	1302	10.451068	
11	1	16	89.3			11.435323	

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	3	5	60.9	1863	1634	0.655845	1
1	3	7	69.9	1622	1509	1.145751	
2	2	14	88.1	1525		1.406849	
3	1	15	96.9			2.601954	
4	1	8	51.7			3.001549	
5	3	17	74.5	1445	1328	3.887453	
6	1	12	54.5			4.584617	
7	2	8	64.5	1375		5.043263	
8	1	17	79.5			5.748422	
9	2	17	99.8	1189		6.524704	
10	2	7	90.6	1182		7.208674	
11	3	8	59.9	1347	1825	7.542319	
12	2	18	50.9	1728		8.211574	
13	3	9	76.3	1887	1457	9.098365	
14	1	15	70.2			9.635987	
15	2	17	86.3	1480		10.550639	
16	2	19	92.7	1948		11.151368	
17	2	6	97.6	1425		11.368581	

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	7	79.6	1356	1604	0.316772	1
1	2	18	94.8	1687		0.866708	
2	2	15	97.7	1191		1.692085	
3	1	18	61			2.19253	
4	2	8	85.8	1585		3.226595	
5	2	13	81.2	1370		3.851328	
6	2	7	81.7	1971		4.838516	
7	1	5	66.4			5.257923	
8	2	10	77.4	1734		5.846183	
9	2	13	65.3	1790		6.384892	
10	3	8	97.9	1952	1199	7.701747	
11	1	7	81.1			8.069627	
12	3	9	98.2	1889	1504	8.669153	
13	1	19	84.4			9.264874	
14	1	8	71.7			10.022887	
15	2	13	95.7	1880		10.880978	
16	2	8	66.6	1825		11.562415	

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	17	96.5	1682		0.930845	1
1	2	19	75.6	1745		1.284419	
2	1	13	86.1			2.659801	
3	2	20	78.6	1550		3.457628	
4	3	16	79.2	1349	1919	4.774468	
5	3	14	50.1	1048	1133	5.524609	
6	3	18	91.8	1563	1814	6.679663	
7	2	12	89	1478		7.287567	
8	2	7	84.2	1566		8.055585	
9	1	15	72.7			9.72868	
10	1	9	94.5			10.675319	
11	2	18	85.9	1757		11.076373	

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	12	72.7	1558		0.430944	1
1	3	7	72.2	1342	1574	1.707201	
2	3	6	78.4	1229	1477	2.868791	
3	1	16	55.4			4.658337	
4	1	18	92.9			5.332652	
5	2	8	67.9	1409		6.721157	
6	2	12	64.5	1527		7.803137	
7	2	7	98.1	1930		9.376217	
8	3	13	75	1602	1625	10.054693	
9	2	7	83	1077		11.149833	

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	19	78.3	1031		0.015539	1
1	3	13	95	1031	1404	1.236561	
2	2	9	52.8	1172		2.757993	
3	1	13	63			3.782236	
4	1	18	98.8			5.145103	
5	2	6	96.3	1231		5.729264	
6	3	16	81.2	1271	1425	6.613225	
7	1	10	62.7			8.155892	
8	1	15	89.3			9.440438	
9	1	6	57.1			9.933651	
10	2	11	92	1540		11.745745	

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	1	13	58.8			0.048208	1
1	2	9	63.7	1745		1.269357	
2	2	11	75.5	1345		1.880694	
3	3	7	69.4	1416	1239	2.679482	
4	1	17	57.1			3.474896	
5	1	18	94.3			4.063546	
6	1	13	52.2			4.735636	
7	2	5	70.7	1598		5.946791	
8	3	8	93	1795	1427	6.53189	
9	1	16	64.3			7.301105	
10	2	14	94.4	1486		7.622502	
11	2	7	55.4	1868		8.987639	
12	2	6	85.6	1436		9.497263	
13	2	19	64.4	1723		10.046604	
14	1	13	62.9			10.95536	
15	2	12	67.6	1185		11.671102	

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	98.6	1299		0.62609	1
1	2	12	93.9	1521		2.493647	
2	1	18	60.7			3.458695	
3	2	8	77.3	1530		4.190385	
4	2	18	66	1626		6.321762	
5	2	11	50.9	1985		7.990379	
6	3	7	55.4	1817	1193	8.838848	
7	1	6	61.9			9.64539	
8	2	15	61.7	1389		10.79821	

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	7	70.9			0.33954	1
1	2	10	80.8	1840		1.331259	
2	2	16	67.1	1473		2.477849	
3	3	13	96.8	1387	1304	4.724215	
4	3	6	69.9	1126	1829	5.672661	
5	2	10	50.8	1845		7.089111	
6	2	14	60.3	1441		7.853664	
7	2	12	74.6	1368		8.908944	
8	1	10	86.4			10.762125	
9	1	17	50.6			10.88758	

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	15	50.6	1495		0.517934	1
1	1	11	74			1.103595	
2	3	11	64.1	1474	1727	1.685961	
3	2	17	84.1	1433		2.490973	
4	1	10	86.5			2.54807	
5	2	8	87.2	1238		3.614119	
6	1	9	60.1			3.789498	
7	3	8	51.5	1869	1858	4.427409	
8	2	11	72.8	1911		5.176232	
9	1	19	66.8			6.051107	
10	1	20	60.7			6.532975	
11	2	5	61.1	1913		7.202717	
12	2	7	69.6	1436		8.016055	
13	3	13	73.4	1105	1929	8.241793	
14	3	10	91.6	1731	1234	9.204328	
15	3	12	52.3	1157	1312	9.808559	
16	2	18	81.6	1397		10.280838	
17	3	18	52	1307	1152	11.089502	
18	2	15	53.3	1833		11.679412	

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	3	6	52.5	1602	1545	0.022192	
1	3	5	78.5	1844	1515	2.088262	
2	3	13	64	1699	1153	2.813237	
3	3	11	81.7	1508	1340	3.553894	
4	3	20	67.3	1853	1326	5.079417	
5	1	18	51.2			5.503795	1
6	3	5	71.8	1333	1090	7.45212	
7	1	6	94.3			8.473911	
8	3	11	95.3	1009	1215	9.793454	
9	2	11	98.4	1206		10.755849	
10	2	16	57.9	1120		11.230903	

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	18	95.4	1536		0.305055	
1	1	14	58.4			0.900132	
2	1	12	75.6			1.858302	
3	3	8	83.2	1821	1899	2.815315	
4	1	14	77.9			3.085769	
5	2	6	74.1	1150		3.668921	
6	3	15	83.5	1889	1946	4.693369	
7	3	6	52	1686	1752	5.545965	
8	2	8	82.1	1761		5.801741	1
9	1	17	84.4			6.448053	
10	3	7	82.1	1941	1754	7.591169	
11	2	14	69.8	1343		8.374319	
12	2	13	70.4	1858		8.998243	
13	2	7	73.5	1840		9.641683	
14	2	10	52.1	1415		9.984776	
15	3	17	66.3	1515	1289	11.12036	
16	2	8	70.6	1021		11.314027	

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	52.7	1108		0.811906	1
1	2	9	89.6	1810		1.152458	
2	1	19	57.6			2.867177	
3	2	7	93.6	1463		3.535918	
4	1	16	73			4.495013	
5	2	11	55	1908		6.290919	
6	2	14	85.4	1195		6.766014	
7	2	5	66.6	1593		7.979253	
8	1	16	90.7			8.988163	
9	1	19	88			10.100004	
10	2	12	66.4	1666		11.334237	

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	13	89.4	1869	1096	0.292289	1
1	2	8	74.7	1805		0.893705	
2	1	6	57.1			2.018982	
3	2	19	93.2	1502		2.575249	
4	2	11	91.9	1262		3.38396	
5	1	7	87.8			4.12689	
6	2	19	59.3	1055		4.724989	
7	2	7	61.8	1176		5.574296	
8	2	9	71.9	1994		6.698013	
9	2	15	58.2	1843		7.058517	
10	2	7	51	1711		8.097869	
11	1	15	68.1			8.322106	
12	2	8	71.4	1826		9.057515	
13	2	10	65.2	1252		9.902925	
14	1	11	83.3			11.082671	
15	2	15	67.9	1843		11.504033	

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	10	74.3	1125	1904	0.153217	1
1	1	11	88.1			1.211967	
2	2	12	54.8	1599		1.712799	
3	1	11	84.8			2.007556	
4	2	5	96.5	1687		2.735355	
5	2	11	70.9	1780		3.597372	
6	1	6	71.1			4.353428	
7	2	13	73.7	1907		4.570844	
8	2	10	95.7	1317		5.50325	
9	2	7	71.1	1595		5.815335	
10	3	19	73.5	1249	1337	6.878048	
11	3	17	66.4	1357	1769	7.194126	
12	3	17	53.9	1200	1755	7.890201	
13	1	13	61.6			8.300604	
14	1	13	81.7			9.375334	
15	3	18	67.1	1063	1147	9.690624	
16	2	15	85.1	1492		10.41962	
17	2	11	58.1	1586		11.13849	
18	2	8	74	1143		11.931764	

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	10	99	1143		0.414399	
1	1	19	84.6			1.429314	
2	2	6	84.6	1558		1.993996	
3	2	10	65.7	1803		2.802298	
4	1	6	95.5			3.74085	
5	2	11	55.2	1811		4.173768	
6	3	11	78.5	1099	1741	5.140229	
7	2	5	76.4	1308		5.648577	1
8	1	7	61.3			7.001744	
9	2	10	64.1	1088		7.936063	
10	1	15	66			8.082968	
11	1	11	98			9.173132	
12	2	16	60.9	1447		9.647702	
13	1	10	64.6			10.720533	
14	2	9	66.5	1801		11.855721	

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	5256.0, 5436.0, 5468.0, 5272.0, 5522.0, 5687.0, 5597.0, 5611.0, 5252.0, 5556.0, 5364.0, 5366.0, 5618.0, 5319.0, 5668.0, 5710.0, 5674.0, 5361.0, 5604.0, 5591.0, 5646.0, 5640.0, 5404.0, 5316.0, 5495.0, 5571.0, 5469.0, 5324.0, 5430.0, 5343.0, 5613.0, 5535.0, 5338.0, 5282.0, 5519.0, 5400.0, 5721.0, 5388.0, 5681.0, 5632.0, 5293.0, 5679.0, 5395.0, 5669.0, 5543.0, 5558.0, 5663.0, 5314.0, 5270.0, 5570.0, 5250.0, 5474.0, 5470.0, 5277.0, 5275.0, 5426.0, 5719.0, 5563.0, 5421.0, 5629.0, 5359.0, 5419.0, 5320.0, 5294.0, 5608.0, 5479.0, 5398.0, 5512.0, 5459.0, 5302.0, 5636.0, 5259.0, 5330.0, 5661.0, 5697.0, 5377.0, 5440.0, 5447.0, 5703.0, 5297.0, 5573.0, 5407.0, 5455.0, 5257.0, 5263.0, 5626.0, 5630.0, 5620.0, 5583.0, 5402.0, 5564.0, 5253.0, 5643.0, 5593.0, 5702.0, 5358.0, 5334.0, 5262.0, 5507.0, 5415.0 (number of hits: 11)
2	5530	9	1	333	1	5660.0, 5696.0, 5661.0, 5282.0, 5632.0, 5484.0, 5587.0, 5313.0, 5367.0, 5716.0, 5698.0, 5638.0, 5667.0, 5700.0, 5460.0, 5358.0, 5381.0, 5452.0, 5356.0, 5335.0, 5370.0, 5293.0, 5256.0, 5475.0, 5349.0, 5530.0, 5634.0, 5438.0, 5620.0, 5687.0, 5623.0, 5657.0, 5469.0, 5437.0, 5342.0, 5422.0, 5336.0, 5285.0, 5483.0, 5450.0, 5323.0, 5694.0, 5591.0, 5547.0, 5340.0, 5455.0, 5717.0, 5382.0, 5412.0, 5471.0, 5394.0, 5673.0, 5420.0, 5447.0, 5495.0, 5276.0, 5431.0, 5410.0, 5701.0, 5287.0, 5417.0, 5463.0, 5616.0, 5610.0, 5615.0, 5628.0, 5609.0, 5540.0, 5357.0, 5619.0, 5640.0, 5692.0, 5722.0, 5713.0, 5566.0, 5594.0, 5305.0, 5604.0, 5439.0, 5366.0, 5353.0, 5424.0, 5603.0, 5532.0, 5658.0, 5300.0, 5411.0, 5492.0, 5288.0, 5535.0, 5697.0, 5429.0, 5607.0, 5542.0, 5724.0, 5680.0, 5590.0, 5527.0, 5355.0, 5308.0 (number of hits: 10)
3	5530	9	1	333	1	5453.0, 5629.0, 5593.0, 5498.0, 5544.0, 5354.0, 5382.0, 5506.0, 5431.0, 5495.0, 5454.0, 5503.0, 5575.0, 5497.0, 5254.0, 5312.0, 5638.0, 5310.0, 5500.0, 5558.0, 5418.0, 5691.0, 5502.0, 5343.0, 5395.0, 5445.0, 5341.0, 5640.0, 5302.0, 5394.0, 5288.0, 5361.0, 5305.0, 5706.0, 5598.0, 5646.0, 5461.0, 5362.0, 5479.0, 5721.0, 5653.0, 5612.0, 5430.0, 5331.0, 5352.0, 5391.0, 5630.0, 5512.0, 5549.0, 5317.0, 5555.0, 5473.0, 5675.0, 5469.0, 5713.0, 5311.0, 5668.0, 5538.0, 5283.0, 5253.0,

						5651.0, 5393.0, 5588.0, 5665.0, 5680.0, 5566.0, 5373.0, 5407.0, 5560.0, 5421.0, 5542.0, 5603.0, 5580.0, 5686.0, 5251.0, 5434.0, 5306.0, 5639.0, 5666.0, 5342.0, 5478.0, 5650.0, 5377.0, 5279.0, 5353.0, 5419.0, 5592.0, 5385.0, 5347.0, 5489.0, 5282.0, 5572.0, 5447.0, 5400.0, 5290.0, 5397.0, 5398.0, 5265.0, 5273.0, 5649.0 (number of hits: 16)
4	5530	9	1	333	1	5280.0, 5348.0, 5557.0, 5284.0, 5704.0, 5702.0, 5313.0, 5724.0, 5258.0, 5367.0, 5444.0, 5469.0, 5634.0, 5253.0, 5567.0, 5516.0, 5719.0, 5529.0, 5336.0, 5274.0, 5267.0, 5668.0, 5358.0, 5485.0, 5563.0, 5536.0, 5477.0, 5619.0, 5312.0, 5568.0, 5314.0, 5611.0, 5474.0, 5380.0, 5514.0, 5334.0, 5655.0, 5391.0, 5526.0, 5287.0, 5293.0, 5566.0, 5586.0, 5454.0, 5306.0, 5595.0, 5686.0, 5617.0, 5259.0, 5434.0, 5466.0, 5614.0, 5275.0, 5541.0, 5523.0, 5561.0, 5600.0, 5581.0, 5419.0, 5699.0, 5326.0, 5551.0, 5422.0, 5560.0, 5346.0, 5471.0, 5645.0, 5457.0, 5517.0, 5593.0, 5656.0, 5370.0, 5294.0, 5528.0, 5337.0, 5350.0, 5717.0, 5324.0, 5546.0, 5256.0, 5315.0, 5518.0, 5369.0, 5363.0, 5299.0, 5472.0, 5715.0, 5316.0, 5389.0, 5328.0, 5663.0, 5279.0, 5716.0, 5693.0, 5667.0, 5491.0, 5612.0, 5268.0, 5453.0, 5722.0 (number of hits: 20)
5	5530	9	1	333	1	5299.0, 5520.0, 5479.0, 5578.0, 5325.0, 5530.0, 5464.0, 5524.0, 5575.0, 5298.0, 5449.0, 5360.0, 5259.0, 5354.0, 5605.0, 5282.0, 5626.0, 5657.0, 5355.0, 5669.0, 5303.0, 5368.0, 5701.0, 5487.0, 5424.0, 5590.0, 5254.0, 5454.0, 5552.0, 5564.0, 5539.0, 5501.0, 5667.0, 5664.0, 5301.0, 5472.0, 5326.0, 5307.0, 5680.0, 5639.0, 5594.0, 5514.0, 5457.0, 5414.0, 5671.0, 5336.0, 5536.0, 5523.0, 5349.0, 5608.0, 5621.0, 5602.0, 5468.0, 5607.0, 5329.0, 5505.0, 5270.0, 5574.0, 5290.0, 5516.0, 5633.0, 5540.0, 5357.0, 5534.0, 5339.0, 5686.0, 5522.0, 5292.0, 5338.0, 5585.0, 5366.0, 5627.0, 5475.0, 5711.0, 5480.0, 5401.0, 5465.0, 5486.0, 5577.0, 5450.0, 5268.0, 5670.0, 5720.0, 5342.0, 5436.0, 5296.0, 5566.0, 5402.0, 5615.0, 5361.0, 5571.0, 5437.0, 5710.0, 5698.0, 5428.0, 5483.0, 5272.0, 5702.0, 5427.0, 5618.0 (number of hits: 16)
6	5530	9	1	333	1	5717.0, 5571.0, 5539.0, 5511.0, 5664.0, 5568.0, 5440.0, 5305.0, 5671.0, 5340.0, 5314.0, 5610.0, 5595.0, 5347.0, 5715.0, 5508.0, 5438.0, 5714.0, 5536.0, 5404.0, 5254.0, 5417.0, 5250.0, 5704.0, 5408.0, 5256.0, 5493.0, 5426.0, 5259.0, 5304.0, 5405.0, 5327.0, 5599.0, 5306.0, 5359.0, 5533.0, 5581.0, 5432.0, 5501.0, 5326.0, 5698.0, 5494.0, 5446.0, 5274.0, 5654.0,

						5592.0, 5390.0, 5686.0, 5675.0, 5460.0, 5484.0, 5627.0, 5443.0, 5321.0, 5559.0, 5307.0, 5596.0, 5574.0, 5470.0, 5687.0, 5545.0, 5262.0, 5713.0, 5540.0, 5451.0, 5399.0, 5620.0, 5381.0, 5472.0, 5496.0, 5422.0, 5372.0, 5523.0, 5397.0, 5371.0, 5365.0, 5573.0, 5477.0, 5674.0, 5520.0, 5301.0, 5685.0, 5464.0, 5531.0, 5553.0, 5368.0, 5655.0, 5375.0, 5409.0, 5311.0, 5694.0, 5656.0, 5401.0, 5583.0, 5672.0, 5450.0, 5341.0, 5361.0, 5458.0, 5435.0 (number of hits: 17)
7	5530	9	1	333	1	5335.0, 5700.0, 5427.0, 5343.0, 5649.0, 5413.0, 5637.0, 5559.0, 5553.0, 5465.0, 5319.0, 5643.0, 5634.0, 5538.0, 5274.0, 5400.0, 5271.0, 5667.0, 5338.0, 5503.0, 5498.0, 5602.0, 5364.0, 5719.0, 5253.0, 5272.0, 5349.0, 5423.0, 5385.0, 5459.0, 5372.0, 5494.0, 5308.0, 5340.0, 5360.0, 5456.0, 5628.0, 5714.0, 5561.0, 5583.0, 5517.0, 5470.0, 5357.0, 5579.0, 5697.0, 5662.0, 5441.0, 5481.0, 5626.0, 5560.0, 5445.0, 5695.0, 5361.0, 5576.0, 5507.0, 5339.0, 5265.0, 5541.0, 5612.0, 5527.0, 5711.0, 5320.0, 5377.0, 5356.0, 5429.0, 5570.0, 5312.0, 5630.0, 5297.0, 5524.0, 5511.0, 5591.0, 5374.0, 5258.0, 5280.0, 5684.0, 5252.0, 5286.0, 5601.0, 5373.0, 5551.0, 5464.0, 5313.0, 5270.0, 5689.0, 5539.0, 5502.0, 5281.0, 5383.0, 5438.0, 5408.0, 5633.0, 5698.0, 5467.0, 5295.0, 5558.0, 5520.0, 5685.0, 5679.0, 5426.0 (number of hits: 19)
8	5530	9	1	333	1	5369.0, 5597.0, 5628.0, 5477.0, 5296.0, 5623.0, 5542.0, 5716.0, 5578.0, 5659.0, 5291.0, 5585.0, 5662.0, 5295.0, 5308.0, 5653.0, 5323.0, 5693.0, 5449.0, 5388.0, 5345.0, 5480.0, 5538.0, 5671.0, 5408.0, 5493.0, 5652.0, 5588.0, 5302.0, 5273.0, 5558.0, 5696.0, 5622.0, 5370.0, 5431.0, 5488.0, 5394.0, 5378.0, 5437.0, 5536.0, 5606.0, 5349.0, 5311.0, 5276.0, 5462.0, 5582.0, 5312.0, 5639.0, 5283.0, 5549.0, 5363.0, 5620.0, 5285.0, 5459.0, 5583.0, 5574.0, 5372.0, 5472.0, 5553.0, 5410.0, 5571.0, 5406.0, 5581.0, 5487.0, 5676.0, 5523.0, 5318.0, 5611.0, 5617.0, 5724.0, 5613.0, 5280.0, 5403.0, 5494.0, 5293.0, 5625.0, 5325.0, 5424.0, 5669.0, 5473.0, 5550.0, 5511.0, 5330.0, 5305.0, 5690.0, 5607.0, 5463.0, 5436.0, 5674.0, 5348.0, 5412.0, 5495.0, 5303.0, 5417.0, 5468.0, 5336.0, 5649.0, 5326.0, 5256.0, 5664.0 (number of hits: 12)
9	5530	9	1	333	1	5485.0, 5716.0, 5572.0, 5468.0, 5325.0, 5470.0, 5361.0, 5295.0, 5290.0, 5254.0, 5575.0, 5630.0, 5720.0, 5477.0, 5441.0, 5344.0, 5538.0, 5397.0, 5428.0, 5398.0, 5406.0, 5413.0, 5481.0, 5513.0, 5570.0, 5355.0, 5304.0, 5471.0, 5350.0, 5354.0,

						5292.0, 5539.0, 5636.0, 5635.0, 5589.0, 5321.0, 5487.0, 5299.0, 5609.0, 5651.0, 5284.0, 5501.0, 5528.0, 5699.0, 5696.0, 5333.0, 5280.0, 5349.0, 5296.0, 5271.0, 5275.0, 5375.0, 5373.0, 5564.0, 5332.0, 5610.0, 5336.0, 5431.0, 5709.0, 5394.0, 5281.0, 5459.0, 5687.0, 5316.0, 5339.0, 5556.0, 5535.0, 5697.0, 5604.0, 5329.0, 5583.0, 5573.0, 5620.0, 5605.0, 5676.0, 5502.0, 5472.0, 5454.0, 5577.0, 5585.0, 5371.0, 5612.0, 5701.0, 5342.0, 5282.0, 5576.0, 5567.0, 5269.0, 5358.0, 5435.0, 5634.0, 5277.0, 5507.0, 5346.0, 5289.0, 5493.0, 5378.0, 5521.0, 5267.0, 5335.0 (number of hits: 13)
10	5530	9	1	333	1	5661.0, 5350.0, 5389.0, 5362.0, 5609.0, 5298.0, 5652.0, 5707.0, 5636.0, 5494.0, 5528.0, 5354.0, 5589.0, 5378.0, 5414.0, 5570.0, 5722.0, 5659.0, 5266.0, 5717.0, 5484.0, 5523.0, 5649.0, 5368.0, 5559.0, 5553.0, 5660.0, 5537.0, 5338.0, 5667.0, 5346.0, 5296.0, 5648.0, 5273.0, 5292.0, 5525.0, 5712.0, 5476.0, 5560.0, 5287.0, 5721.0, 5698.0, 5621.0, 5580.0, 5315.0, 5676.0, 5641.0, 5614.0, 5618.0, 5430.0, 5429.0, 5358.0, 5680.0, 5302.0, 5399.0, 5261.0, 5720.0, 5628.0, 5690.0, 5432.0, 5412.0, 5455.0, 5638.0, 5692.0, 5688.0, 5440.0, 5278.0, 5513.0, 5586.0, 5512.0, 5291.0, 5303.0, 5497.0, 5640.0, 5422.0, 5506.0, 5304.0, 5469.0, 5585.0, 5417.0, 5531.0, 5693.0, 5438.0, 5332.0, 5683.0, 5572.0, 5695.0, 5458.0, 5527.0, 5508.0, 5392.0, 5340.0, 5723.0, 5543.0, 5557.0, 5605.0, 5713.0, 5380.0, 5361.0, 5474.0 (number of hits: 17)
11	5530	9	1	333	1	5529.0, 5292.0, 5575.0, 5420.0, 5326.0, 5302.0, 5410.0, 5309.0, 5400.0, 5382.0, 5500.0, 5346.0, 5594.0, 5401.0, 5442.0, 5689.0, 5273.0, 5712.0, 5430.0, 5645.0, 5569.0, 5287.0, 5397.0, 5490.0, 5307.0, 5615.0, 5710.0, 5548.0, 5281.0, 5656.0, 5620.0, 5495.0, 5306.0, 5605.0, 5622.0, 5320.0, 5568.0, 5629.0, 5619.0, 5409.0, 5668.0, 5369.0, 5702.0, 5598.0, 5616.0, 5649.0, 5350.0, 5438.0, 5374.0, 5478.0, 5556.0, 5264.0, 5591.0, 5671.0, 5423.0, 5613.0, 5652.0, 5331.0, 5513.0, 5418.0, 5387.0, 5625.0, 5643.0, 5424.0, 5459.0, 5407.0, 5348.0, 5705.0, 5552.0, 5717.0, 5723.0, 5563.0, 5428.0, 5483.0, 5475.0, 5251.0, 5640.0, 5357.0, 5715.0, 5573.0, 5433.0, 5394.0, 5366.0, 5644.0, 5651.0, 5487.0, 5688.0, 5291.0, 5441.0, 5634.0, 5514.0, 5633.0, 5298.0, 5648.0, 5524.0, 5303.0, 5665.0, 5714.0, 5427.0, 5271.0 (number of hits: 13)
12	5530	9	1	333	1	5263.0, 5712.0, 5624.0, 5442.0, 5623.0, 5484.0, 5621.0, 5644.0, 5532.0, 5266.0, 5564.0, 5377.0, 5402.0, 5540.0, 5468.0,

						5334.0, 5651.0, 5407.0, 5480.0, 5476.0, 5698.0, 5413.0, 5645.0, 5288.0, 5569.0, 5471.0, 5573.0, 5305.0, 5291.0, 5720.0, 5430.0, 5575.0, 5287.0, 5344.0, 5557.0, 5502.0, 5427.0, 5361.0, 5541.0, 5632.0, 5414.0, 5298.0, 5457.0, 5717.0, 5595.0, 5270.0, 5576.0, 5715.0, 5362.0, 5520.0, 5464.0, 5693.0, 5435.0, 5547.0, 5555.0, 5522.0, 5599.0, 5501.0, 5335.0, 5596.0, 5410.0, 5434.0, 5570.0, 5325.0, 5620.0, 5304.0, 5499.0, 5553.0, 5447.0, 5439.0, 5486.0, 5672.0, 5568.0, 5611.0, 5588.0, 5326.0, 5312.0, 5650.0, 5398.0, 5370.0, 5503.0, 5543.0, 5383.0, 5648.0, 5283.0, 5528.0, 5677.0, 5560.0, 5365.0, 5303.0, 5485.0, 5453.0, 5261.0, 5609.0, 5558.0, 5587.0, 5627.0, 5253.0, 5478.0, 5585.0 (number of hits: 20)
13	5530	9	1	333	1	5303.0, 5610.0, 5322.0, 5259.0, 5581.0, 5458.0, 5317.0, 5609.0, 5269.0, 5569.0, 5640.0, 5677.0, 5299.0, 5712.0, 5416.0, 5431.0, 5424.0, 5384.0, 5342.0, 5301.0, 5438.0, 5427.0, 5649.0, 5533.0, 5608.0, 5543.0, 5255.0, 5536.0, 5612.0, 5308.0, 5559.0, 5412.0, 5429.0, 5324.0, 5571.0, 5480.0, 5344.0, 5457.0, 5454.0, 5607.0, 5515.0, 5479.0, 5451.0, 5519.0, 5650.0, 5641.0, 5620.0, 5722.0, 5430.0, 5329.0, 5629.0, 5296.0, 5634.0, 5664.0, 5446.0, 5339.0, 5549.0, 5334.0, 5332.0, 5442.0, 5298.0, 5703.0, 5576.0, 5468.0, 5492.0, 5391.0, 5704.0, 5481.0, 5402.0, 5448.0, 5441.0, 5252.0, 5404.0, 5467.0, 5678.0, 5508.0, 5469.0, 5355.0, 5526.0, 5345.0, 5506.0, 5575.0, 5567.0, 5367.0, 5599.0, 5459.0, 5686.0, 5337.0, 5264.0, 5647.0, 5674.0, 5363.0, 5314.0, 5690.0, 5669.0, 5530.0, 5611.0, 5499.0, 5637.0, 5578.0 (number of hits: 15)
14	5530	9	1	333	1	5613.0, 5348.0, 5291.0, 5534.0, 5681.0, 5585.0, 5275.0, 5424.0, 5273.0, 5578.0, 5315.0, 5350.0, 5478.0, 5492.0, 5265.0, 5477.0, 5499.0, 5490.0, 5344.0, 5390.0, 5600.0, 5571.0, 5697.0, 5723.0, 5330.0, 5359.0, 5559.0, 5672.0, 5569.0, 5666.0, 5384.0, 5442.0, 5361.0, 5339.0, 5581.0, 5719.0, 5354.0, 5698.0, 5696.0, 5519.0, 5321.0, 5620.0, 5554.0, 5616.0, 5575.0, 5524.0, 5480.0, 5319.0, 5525.0, 5439.0, 5707.0, 5633.0, 5533.0, 5473.0, 5458.0, 5636.0, 5634.0, 5493.0, 5570.0, 5508.0, 5544.0, 5597.0, 5325.0, 5500.0, 5507.0, 5270.0, 5336.0, 5281.0, 5419.0, 5391.0, 5409.0, 5405.0, 5714.0, 5510.0, 5709.0, 5691.0, 5518.0, 5366.0, 5258.0, 5292.0, 5287.0, 5558.0, 5712.0, 5285.0, 5437.0, 5349.0, 5710.0, 5322.0, 5410.0, 5611.0, 5663.0, 5383.0, 5429.0, 5640.0, 5462.0, 5367.0, 5517.0, 5378.0, 5464.0, 5520.0 (number of hits: 21)

15	5530	9	1	333	1	5663.0, 5255.0, 5484.0, 5260.0, 5562.0, 5321.0, 5376.0, 5699.0, 5478.0, 5674.0, 5542.0, 5346.0, 5506.0, 5307.0, 5368.0, 5644.0, 5315.0, 5665.0, 5556.0, 5576.0, 5613.0, 5261.0, 5259.0, 5561.0, 5268.0, 5326.0, 5394.0, 5632.0, 5620.0, 5457.0, 5435.0, 5491.0, 5329.0, 5395.0, 5392.0, 5398.0, 5658.0, 5719.0, 5574.0, 5390.0, 5265.0, 5688.0, 5283.0, 5409.0, 5382.0, 5312.0, 5258.0, 5689.0, 5648.0, 5289.0, 5510.0, 5664.0, 5306.0, 5290.0, 5715.0, 5540.0, 5442.0, 5722.0, 5527.0, 5698.0, 5622.0, 5627.0, 5446.0, 5358.0, 5528.0, 5453.0, 5434.0, 5582.0, 5690.0, 5647.0, 5544.0, 5273.0, 5359.0, 5617.0, 5475.0, 5566.0, 5549.0, 5320.0, 5558.0, 5560.0, 5459.0, 5523.0, 5280.0, 5586.0, 5276.0, 5402.0, 5355.0, 5351.0, 5588.0, 5250.0, 5466.0, 5262.0, 5474.0, 5251.0, 5349.0, 5594.0, 5536.0, 5411.0, 5460.0, 5515.0 (number of hits: 18)
16	5530	9	1	333	1	5302.0, 5552.0, 5332.0, 5679.0, 5555.0, 5508.0, 5542.0, 5428.0, 5316.0, 5322.0, 5621.0, 5551.0, 5270.0, 5568.0, 5586.0, 5310.0, 5603.0, 5522.0, 5667.0, 5556.0, 5547.0, 5546.0, 5488.0, 5678.0, 5389.0, 5523.0, 5535.0, 5491.0, 5692.0, 5470.0, 5584.0, 5325.0, 5697.0, 5400.0, 5585.0, 5446.0, 5683.0, 5311.0, 5677.0, 5665.0, 5628.0, 5468.0, 5605.0, 5520.0, 5619.0, 5627.0, 5544.0, 5674.0, 5453.0, 5465.0, 5682.0, 5358.0, 5532.0, 5454.0, 5298.0, 5397.0, 5562.0, 5623.0, 5560.0, 5378.0, 5590.0, 5349.0, 5404.0, 5344.0, 5587.0, 5486.0, 5369.0, 5620.0, 5501.0, 5602.0, 5699.0, 5577.0, 5549.0, 5624.0, 5565.0, 5379.0, 5371.0, 5318.0, 5415.0, 5676.0, 5536.0, 5717.0, 5505.0, 5537.0, 5516.0, 5598.0, 5450.0, 5347.0, 5438.0, 5631.0, 5630.0, 5658.0, 5529.0, 5592.0, 5644.0, 5255.0, 5370.0, 5472.0, 5513.0, 5652.0 (number of hits: 27)
17	5530	9	1	333	1	5395.0, 5628.0, 5391.0, 5542.0, 5618.0, 5375.0, 5684.0, 5443.0, 5607.0, 5419.0, 5349.0, 5544.0, 5441.0, 5706.0, 5650.0, 5642.0, 5593.0, 5418.0, 5579.0, 5690.0, 5415.0, 5694.0, 5657.0, 5304.0, 5615.0, 5462.0, 5283.0, 5555.0, 5306.0, 5471.0, 5288.0, 5547.0, 5381.0, 5287.0, 5442.0, 5503.0, 5352.0, 5459.0, 5551.0, 5636.0, 5488.0, 5428.0, 5461.0, 5348.0, 5334.0, 5523.0, 5603.0, 5368.0, 5408.0, 5311.0, 5398.0, 5513.0, 5536.0, 5501.0, 5393.0, 5623.0, 5340.0, 5687.0, 5317.0, 5560.0, 5429.0, 5291.0, 5678.0, 5533.0, 5609.0, 5330.0, 5373.0, 5438.0, 5476.0, 5342.0, 5512.0, 5274.0, 5358.0, 5345.0, 5624.0, 5675.0, 5720.0, 5257.0, 5691.0, 5303.0, 5256.0, 5472.0, 5680.0, 5651.0, 5397.0, 5338.0, 5270.0, 5554.0, 5455.0, 5406.0,

						5520.0, 5316.0, 5626.0, 5531.0, 5610.0, 5299.0, 5621.0, 5396.0, 5321.0, 5704.0 (number of hits: 16)
18	5530	9	1	333	1	5346.0, 5329.0, 5587.0, 5716.0, 5448.0, 5353.0, 5307.0, 5594.0, 5469.0, 5393.0, 5379.0, 5695.0, 5420.0, 5632.0, 5360.0, 5679.0, 5655.0, 5477.0, 5445.0, 5672.0, 5670.0, 5639.0, 5388.0, 5680.0, 5706.0, 5555.0, 5509.0, 5543.0, 5283.0, 5683.0, 5507.0, 5498.0, 5704.0, 5566.0, 5510.0, 5581.0, 5605.0, 5424.0, 5318.0, 5592.0, 5268.0, 5583.0, 5591.0, 5557.0, 5662.0, 5369.0, 5279.0, 5504.0, 5421.0, 5442.0, 5339.0, 5598.0, 5546.0, 5621.0, 5495.0, 5315.0, 5431.0, 5577.0, 5253.0, 5488.0, 5350.0, 5322.0, 5365.0, 5722.0, 5643.0, 5479.0, 5717.0, 5657.0, 5400.0, 5367.0, 5386.0, 5270.0, 5687.0, 5553.0, 5491.0, 5330.0, 5415.0, 5698.0, 5284.0, 5297.0, 5485.0, 5502.0, 5531.0, 5403.0, 5390.0, 5711.0, 5450.0, 5394.0, 5658.0, 5652.0, 5359.0, 5512.0, 5371.0, 5664.0, 5616.0, 5572.0, 5362.0, 5395.0, 5560.0, 5637.0 (number of hits: 17)
19	5530	9	1	333	1	5284.0, 5358.0, 5599.0, 5421.0, 5581.0, 5364.0, 5259.0, 5580.0, 5618.0, 5624.0, 5405.0, 5592.0, 5297.0, 5250.0, 5552.0, 5346.0, 5464.0, 5362.0, 5550.0, 5476.0, 5365.0, 5634.0, 5446.0, 5433.0, 5286.0, 5414.0, 5427.0, 5338.0, 5658.0, 5390.0, 5667.0, 5662.0, 5516.0, 5324.0, 5573.0, 5639.0, 5274.0, 5290.0, 5637.0, 5648.0, 5491.0, 5404.0, 5585.0, 5359.0, 5645.0, 5393.0, 5326.0, 5519.0, 5261.0, 5264.0, 5663.0, 5617.0, 5300.0, 5607.0, 5413.0, 5561.0, 5689.0, 5723.0, 5537.0, 5636.0, 5597.0, 5278.0, 5631.0, 5591.0, 5619.0, 5643.0, 5450.0, 5382.0, 5686.0, 5435.0, 5685.0, 5281.0, 5536.0, 5708.0, 5456.0, 5502.0, 5310.0, 5570.0, 5500.0, 5606.0, 5509.0, 5647.0, 5514.0, 5527.0, 5308.0, 5558.0, 5335.0, 5721.0, 5302.0, 5488.0, 5474.0, 5589.0, 5641.0, 5457.0, 5644.0, 5340.0, 5576.0, 5327.0, 5266.0, 5517.0 (number of hits: 15)
20	5530	9	1	333	1	5317.0, 5439.0, 5683.0, 5458.0, 5481.0, 5456.0, 5330.0, 5440.0, 5664.0, 5610.0, 5720.0, 5377.0, 5618.0, 5636.0, 5629.0, 5367.0, 5475.0, 5448.0, 5551.0, 5301.0, 5653.0, 5332.0, 5255.0, 5371.0, 5699.0, 5722.0, 5340.0, 5357.0, 5703.0, 5362.0, 5311.0, 5328.0, 5373.0, 5355.0, 5453.0, 5253.0, 5567.0, 5643.0, 5522.0, 5322.0, 5476.0, 5553.0, 5688.0, 5586.0, 5655.0, 5487.0, 5288.0, 5318.0, 5535.0, 5341.0, 5547.0, 5270.0, 5611.0, 5488.0, 5555.0, 5721.0, 5413.0, 5647.0, 5692.0, 5666.0, 5397.0, 5594.0, 5493.0, 5405.0, 5257.0, 5649.0, 5706.0, 5704.0, 5554.0, 5302.0, 5463.0, 5559.0, 5702.0, 5430.0, 5260.0,

						5675.0, 5491.0, 5604.0, 5382.0, 5442.0, 5261.0, 5495.0, 5394.0, 5665.0, 5452.0, 5306.0, 5344.0, 5637.0, 5298.0, 5695.0, 5512.0, 5411.0, 5562.0, 5557.0, 5466.0, 5472.0, 5417.0, 5518.0, 5470.0, 5523.0 (number of hits: 17)
21	5530	9	1	333	1	5259.0, 5251.0, 5482.0, 5399.0, 5606.0, 5456.0, 5385.0, 5270.0, 5276.0, 5714.0, 5707.0, 5545.0, 5559.0, 5340.0, 5354.0, 5645.0, 5506.0, 5499.0, 5523.0, 5529.0, 5254.0, 5261.0, 5367.0, 5546.0, 5618.0, 5373.0, 5471.0, 5683.0, 5446.0, 5522.0, 5417.0, 5536.0, 5663.0, 5457.0, 5406.0, 5284.0, 5610.0, 5408.0, 5427.0, 5519.0, 5260.0, 5662.0, 5688.0, 5507.0, 5315.0, 5629.0, 5595.0, 5290.0, 5608.0, 5301.0, 5658.0, 5579.0, 5339.0, 5419.0, 5621.0, 5441.0, 5310.0, 5500.0, 5475.0, 5612.0, 5723.0, 5561.0, 5455.0, 5381.0, 5567.0, 5422.0, 5635.0, 5577.0, 5617.0, 5312.0, 5364.0, 5706.0, 5673.0, 5324.0, 5391.0, 5558.0, 5407.0, 5573.0, 5590.0, 5488.0, 5652.0, 5308.0, 5721.0, 5464.0, 5352.0, 5581.0, 5377.0, 5667.0, 5600.0, 5413.0, 5430.0, 5424.0, 5359.0, 5669.0, 5476.0, 5479.0, 5626.0, 5708.0, 5390.0, 5571.0 (number of hits: 15)
22	5530	9	1	333	1	5640.0, 5469.0, 5521.0, 5604.0, 5346.0, 5364.0, 5452.0, 5406.0, 5621.0, 5378.0, 5296.0, 5427.0, 5512.0, 5577.0, 5314.0, 5697.0, 5471.0, 5695.0, 5273.0, 5523.0, 5551.0, 5287.0, 5510.0, 5456.0, 5437.0, 5421.0, 5606.0, 5347.0, 5482.0, 5370.0, 5716.0, 5546.0, 5451.0, 5568.0, 5399.0, 5565.0, 5612.0, 5353.0, 5589.0, 5464.0, 5638.0, 5395.0, 5252.0, 5453.0, 5368.0, 5344.0, 5424.0, 5400.0, 5335.0, 5643.0, 5705.0, 5465.0, 5563.0, 5308.0, 5290.0, 5495.0, 5619.0, 5622.0, 5557.0, 5602.0, 5584.0, 5700.0, 5575.0, 5586.0, 5391.0, 5264.0, 5304.0, 5321.0, 5297.0, 5720.0, 5317.0, 5656.0, 5386.0, 5634.0, 5670.0, 5636.0, 5268.0, 5712.0, 5680.0, 5411.0, 5616.0, 5507.0, 5331.0, 5477.0, 5667.0, 5650.0, 5420.0, 5328.0, 5721.0, 5685.0, 5506.0, 5387.0, 5289.0, 5518.0, 5261.0, 5356.0, 5569.0, 5564.0, 5603.0, 5446.0 (number of hits: 16)
23	5530	9	1	333	1	5364.0, 5662.0, 5474.0, 5508.0, 5567.0, 5471.0, 5465.0, 5409.0, 5539.0, 5337.0, 5597.0, 5464.0, 5701.0, 5504.0, 5666.0, 5682.0, 5571.0, 5484.0, 5346.0, 5266.0, 5382.0, 5367.0, 5605.0, 5651.0, 5564.0, 5562.0, 5673.0, 5353.0, 5559.0, 5678.0, 5513.0, 5390.0, 5265.0, 5449.0, 5720.0, 5705.0, 5317.0, 5648.0, 5478.0, 5318.0, 5252.0, 5299.0, 5492.0, 5307.0, 5584.0, 5644.0, 5507.0, 5489.0, 5574.0, 5430.0, 5275.0, 5655.0, 5520.0, 5332.0, 5291.0, 5529.0, 5436.0, 5357.0, 5667.0, 5326.0,

						5592.0, 5528.0, 5675.0, 5344.0, 5600.0, 5369.0, 5712.0, 5298.0, 5563.0, 5713.0, 5269.0, 5590.0, 5498.0, 5352.0, 5419.0, 5585.0, 5356.0, 5310.0, 5341.0, 5389.0, 5463.0, 5304.0, 5279.0, 5569.0, 5268.0, 5441.0, 5285.0, 5456.0, 5603.0, 5366.0, 5380.0, 5688.0, 5378.0, 5669.0, 5257.0, 5262.0, 5522.0, 5578.0, 5537.0, 5467.0 (number of hits: 18)
24	5530	9	1	333	1	5314.0, 5290.0, 5671.0, 5305.0, 5543.0, 5642.0, 5538.0, 5492.0, 5590.0, 5690.0, 5708.0, 5292.0, 5294.0, 5647.0, 5564.0, 5426.0, 5345.0, 5563.0, 5530.0, 5528.0, 5582.0, 5457.0, 5518.0, 5255.0, 5325.0, 5477.0, 5551.0, 5613.0, 5536.0, 5365.0, 5678.0, 5367.0, 5413.0, 5577.0, 5552.0, 5640.0, 5321.0, 5382.0, 5306.0, 5585.0, 5539.0, 5723.0, 5629.0, 5347.0, 5579.0, 5298.0, 5398.0, 5267.0, 5302.0, 5304.0, 5497.0, 5681.0, 5561.0, 5667.0, 5389.0, 5546.0, 5560.0, 5665.0, 5692.0, 5416.0, 5612.0, 5276.0, 5654.0, 5379.0, 5503.0, 5468.0, 5329.0, 5537.0, 5309.0, 5296.0, 5601.0, 5447.0, 5406.0, 5478.0, 5709.0, 5616.0, 5694.0, 5514.0, 5632.0, 5411.0, 5307.0, 5362.0, 5527.0, 5529.0, 5565.0, 5540.0, 5635.0, 5664.0, 5578.0, 5602.0, 5462.0, 5698.0, 5250.0, 5570.0, 5470.0, 5394.0, 5507.0, 5483.0, 5575.0, 5573.0 (number of hits: 24)
25	5530	9	1	333	1	5501.0, 5258.0, 5277.0, 5360.0, 5435.0, 5721.0, 5564.0, 5286.0, 5589.0, 5599.0, 5386.0, 5651.0, 5429.0, 5451.0, 5426.0, 5403.0, 5416.0, 5273.0, 5622.0, 5626.0, 5691.0, 5562.0, 5293.0, 5706.0, 5375.0, 5256.0, 5536.0, 5396.0, 5359.0, 5257.0, 5543.0, 5339.0, 5518.0, 5428.0, 5492.0, 5468.0, 5330.0, 5355.0, 5507.0, 5280.0, 5461.0, 5716.0, 5389.0, 5279.0, 5657.0, 5588.0, 5462.0, 5453.0, 5356.0, 5309.0, 5290.0, 5640.0, 5338.0, 5262.0, 5316.0, 5397.0, 5573.0, 5583.0, 5409.0, 5421.0, 5547.0, 5550.0, 5358.0, 5444.0, 5333.0, 5436.0, 5596.0, 5322.0, 5520.0, 5707.0, 5689.0, 5510.0, 5553.0, 5383.0, 5300.0, 5521.0, 5252.0, 5456.0, 5479.0, 5362.0, 5690.0, 5441.0, 5512.0, 5653.0, 5270.0, 5361.0, 5352.0, 5703.0, 5535.0, 5581.0, 5251.0, 5637.0, 5282.0, 5271.0, 5575.0, 5601.0, 5685.0, 5302.0, 5485.0, 5647.0 (number of hits: 16)
26	5530	9	1	333	1	5314.0, 5593.0, 5613.0, 5582.0, 5702.0, 5721.0, 5706.0, 5567.0, 5260.0, 5541.0, 5456.0, 5409.0, 5303.0, 5261.0, 5462.0, 5579.0, 5705.0, 5574.0, 5289.0, 5553.0, 5629.0, 5719.0, 5611.0, 5501.0, 5365.0, 5336.0, 5704.0, 5683.0, 5518.0, 5342.0, 5469.0, 5488.0, 5646.0, 5361.0, 5496.0, 5682.0, 5450.0, 5269.0, 5651.0, 5484.0, 5453.0, 5281.0, 5638.0, 5251.0, 5359.0,

						5661.0, 5328.0, 5512.0, 5636.0, 5415.0, 5699.0, 5601.0, 5304.0, 5388.0, 5587.0, 5519.0, 5639.0, 5592.0, 5323.0, 5684.0, 5459.0, 5366.0, 5697.0, 5470.0, 5464.0, 5575.0, 5253.0, 5385.0, 5551.0, 5478.0, 5632.0, 5308.0, 5254.0, 5558.0, 5326.0, 5291.0, 5531.0, 5568.0, 5381.0, 5712.0, 5284.0, 5425.0, 5499.0, 5448.0, 5466.0, 5718.0, 5549.0, 5662.0, 5520.0, 5332.0, 5690.0, 5562.0, 5714.0, 5505.0, 5293.0, 5482.0, 5427.0, 5474.0, 5433.0, 5424.0 (number of hits: 17)
27	5530	9	1	333	1	5305.0, 5453.0, 5569.0, 5450.0, 5463.0, 5527.0, 5392.0, 5594.0, 5354.0, 5709.0, 5313.0, 5474.0, 5597.0, 5382.0, 5312.0, 5399.0, 5621.0, 5261.0, 5706.0, 5646.0, 5681.0, 5303.0, 5700.0, 5604.0, 5490.0, 5711.0, 5470.0, 5345.0, 5508.0, 5701.0, 5487.0, 5350.0, 5501.0, 5662.0, 5459.0, 5495.0, 5638.0, 5712.0, 5380.0, 5655.0, 5686.0, 5478.0, 5289.0, 5498.0, 5673.0, 5612.0, 5522.0, 5476.0, 5385.0, 5585.0, 5589.0, 5694.0, 5683.0, 5702.0, 5565.0, 5329.0, 5529.0, 5659.0, 5251.0, 5671.0, 5406.0, 5552.0, 5253.0, 5557.0, 5378.0, 5482.0, 5617.0, 5583.0, 5647.0, 5274.0, 5449.0, 5372.0, 5544.0, 5651.0, 5663.0, 5327.0, 5707.0, 5608.0, 5377.0, 5414.0, 5257.0, 5566.0, 5343.0, 5543.0, 5486.0, 5410.0, 5539.0, 5684.0, 5615.0, 5447.0, 5601.0, 5438.0, 5290.0, 5272.0, 5595.0, 5525.0, 5600.0, 5465.0, 5507.0, 5348.0 (number of hits: 18)
28	5530	9	1	333	1	5342.0, 5312.0, 5632.0, 5700.0, 5548.0, 5303.0, 5599.0, 5552.0, 5436.0, 5387.0, 5310.0, 5593.0, 5459.0, 5524.0, 5277.0, 5467.0, 5695.0, 5414.0, 5563.0, 5618.0, 5384.0, 5285.0, 5617.0, 5545.0, 5377.0, 5253.0, 5318.0, 5438.0, 5255.0, 5251.0, 5345.0, 5473.0, 5646.0, 5504.0, 5361.0, 5605.0, 5265.0, 5671.0, 5614.0, 5374.0, 5423.0, 5701.0, 5400.0, 5654.0, 5577.0, 5431.0, 5327.0, 5525.0, 5498.0, 5440.0, 5280.0, 5697.0, 5616.0, 5307.0, 5464.0, 5393.0, 5567.0, 5662.0, 5412.0, 5645.0, 5394.0, 5380.0, 5291.0, 5602.0, 5375.0, 5702.0, 5687.0, 5569.0, 5681.0, 5433.0, 5501.0, 5282.0, 5457.0, 5415.0, 5529.0, 5485.0, 5688.0, 5615.0, 5402.0, 5284.0, 5500.0, 5331.0, 5502.0, 5369.0, 5580.0, 5572.0, 5474.0, 5506.0, 5403.0, 5278.0, 5628.0, 5607.0, 5343.0, 5304.0, 5651.0, 5395.0, 5337.0, 5300.0, 5434.0, 5588.0 (number of hits: 15)
29	5530	9	1	333	1	5317.0, 5603.0, 5294.0, 5332.0, 5263.0, 5600.0, 5515.0, 5461.0, 5457.0, 5504.0, 5338.0, 5355.0, 5510.0, 5353.0, 5446.0, 5403.0, 5503.0, 5506.0, 5327.0, 5694.0, 5582.0, 5409.0, 5717.0, 5260.0, 5303.0, 5571.0, 5723.0, 5440.0, 5633.0, 5595.0,

						5718.0, 5349.0, 5291.0, 5407.0, 5345.0, 5485.0, 5265.0, 5570.0, 5397.0, 5551.0, 5329.0, 5267.0, 5341.0, 5416.0, 5452.0, 5577.0, 5298.0, 5632.0, 5312.0, 5334.0, 5699.0, 5662.0, 5373.0, 5296.0, 5433.0, 5557.0, 5463.0, 5492.0, 5406.0, 5388.0, 5352.0, 5330.0, 5652.0, 5601.0, 5549.0, 5517.0, 5369.0, 5459.0, 5550.0, 5724.0, 5596.0, 5425.0, 5456.0, 5300.0, 5366.0, 5692.0, 5378.0, 5680.0, 5536.0, 5392.0, 5322.0, 5365.0, 5569.0, 5668.0, 5664.0, 5283.0, 5473.0, 5616.0, 5599.0, 5288.0, 5348.0, 5663.0, 5257.0, 5424.0, 5465.0, 5540.0, 5401.0, 5695.0, 5604.0, 5356.0 (number of hits: 14)
30	5530	9	1	333	1	5292.0, 5293.0, 5588.0, 5699.0, 5617.0, 5316.0, 5720.0, 5526.0, 5417.0, 5447.0, 5601.0, 5318.0, 5335.0, 5259.0, 5604.0, 5618.0, 5510.0, 5391.0, 5645.0, 5594.0, 5502.0, 5422.0, 5630.0, 5479.0, 5620.0, 5273.0, 5707.0, 5397.0, 5511.0, 5566.0, 5363.0, 5700.0, 5442.0, 5289.0, 5544.0, 5517.0, 5311.0, 5374.0, 5563.0, 5606.0, 5401.0, 5467.0, 5561.0, 5621.0, 5602.0, 5672.0, 5260.0, 5362.0, 5360.0, 5593.0, 5390.0, 5412.0, 5652.0, 5651.0, 5263.0, 5270.0, 5702.0, 5348.0, 5648.0, 5488.0, 5585.0, 5549.0, 5564.0, 5532.0, 5347.0, 5696.0, 5562.0, 5480.0, 5456.0, 5380.0, 5369.0, 5719.0, 5306.0, 5408.0, 5383.0, 5667.0, 5522.0, 5254.0, 5451.0, 5262.0, 5320.0, 5603.0, 5559.0, 5295.0, 5468.0, 5722.0, 5579.0, 5460.0, 5490.0, 5641.0, 5644.0, 5536.0, 5255.0, 5372.0, 5333.0, 5258.0, 5524.0, 5576.0, 5328.0, 5376.0 (number of hits: 18)

11 Appendix A – Test Setup Photographs

11.1 DFS Test Setup View

12 Exhibit B – EUT Photographs

12.1 EUT – Module Front View

12.2 EUT – Module Bottom View

12.3 EUT – Antenna View

12.4 Host- Top View

12.5 Host - Bottom View

12.6 Host – Cover off View

12.7 Controller Front View

12.8 Controller Rear View

12.9 EUT – POE Switch – Mode Power Supply View

12.10 EUT – AC Adaptor of POE

--- END OF REPORT ---