



FCC PART 15.407
IC RSS-210, ISSUE 8
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

Ruckus Wireless, Inc.

350 West Java Drive,
Sunnyvale, CA 94089, USA

FCC ID: S9GR300
IC: 5912A-R300

Report Type: Original Report	Equipment Type: 802.11a/b/g/n Access Point
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Report No.: R1305151-DFS	
Report Date: 2013-10-28	
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1305151-DFS	Original Report	2013-10-28

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Ruckus Wireless, Inc.* and their product, FCC ID: S9GR300, IC: 5912A-R300, model number: *R300* or the “EUT” as referred on this report is a wireless access point which operates on the 2.4 GHz and 5 GHz bands.

1.2 Mechanical Description of EUT

The EUT measures approximately 13.1 cm (L) x 13.1 cm (W) x 2.8 cm (H) and weighs 205.0g.

The test data gathered are from typical production sample, serial number: FIDXVP assigned by BACL.

1.3 Objective

This report is prepared on behalf of Exalt Communications, Inc., in accordance with FCC CFR47 §15.407 (h), RSS-210, Issue 8, Dec 2010 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=8430d44f1f47cf2996124343c704b367816b>

2 EUT TEST CONFIGURATION

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(H), RSS-210 and FCC 06-96 Standards.

2.2 EUT Exercise Software

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

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturers	Description	Models	Serial Number
Lenovo	Laptop	IdeaPad U310	DB04927703

2.5 Interface Ports and Cabling

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

2.6 Power Supply and Line Filters

Manufacturer	Description	Model Number	Serial Number
Ruckus	AC/DC Adaptor	HK-AD-120A-XX	-
Ruckus	AC/DC Adaptor of POE	PA1024-4HE	740-64125-020

2.7 EUT Internal Configurations

Manufacturers	Descriptions	Models	Serial Numbers
Ruckus	Main PCB Board	ASM 120-11255	-

3 Summary of Test Results

The following result table represents the list of measurements required under the CFR47 §47 Part15.407 (h), RSS-210 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 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), RSS-210 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 <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> begins is as follows: • For the Short Pulse Radar Test Signals this instant is the end of the <i>Burst</i>. • For the Frequency Hopping radar Test Signal, this instant is the end of the last radar <i>Burst</i> generated. • For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the <i>Radar Waveform</i>. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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 <i>U-NII Detection Bandwidth</i> 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

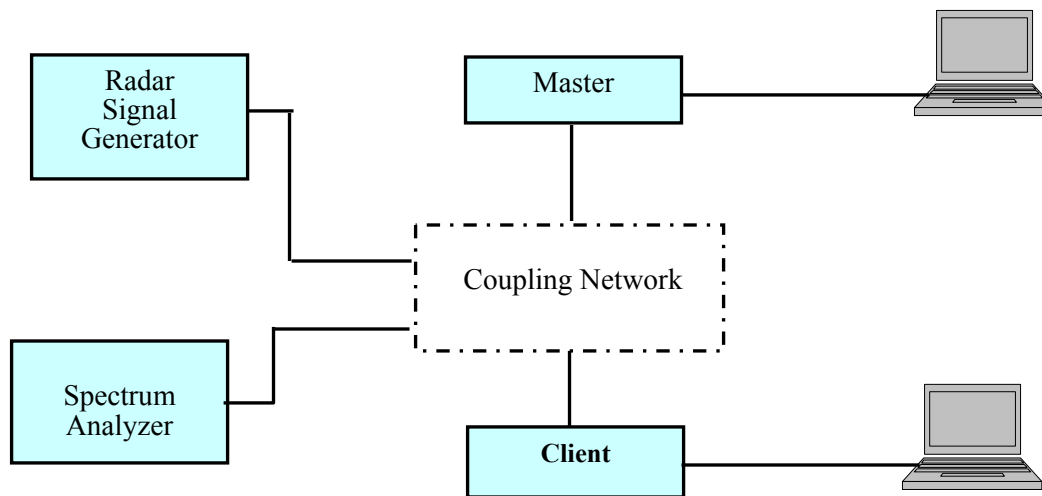
Table 7: Frequency Hopping Radar Test Signal

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

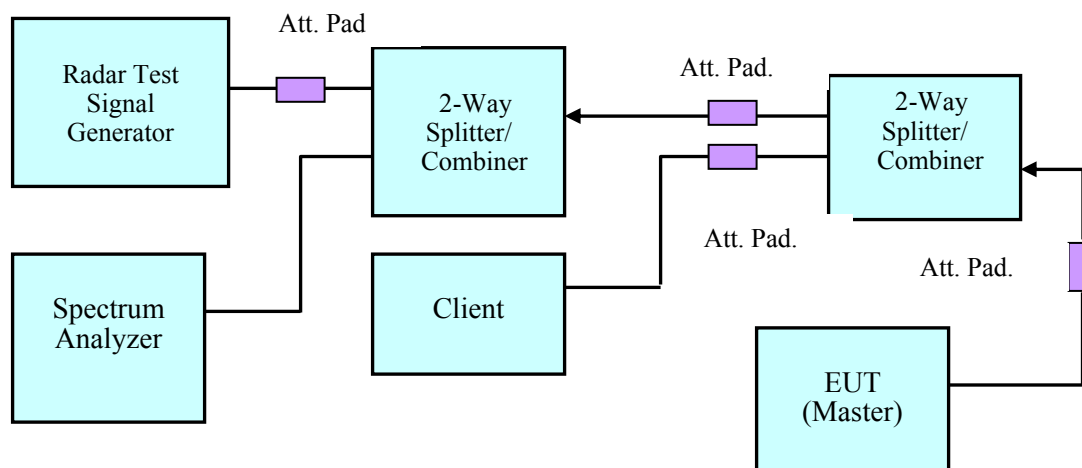
4.2 DFS Measurement System

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

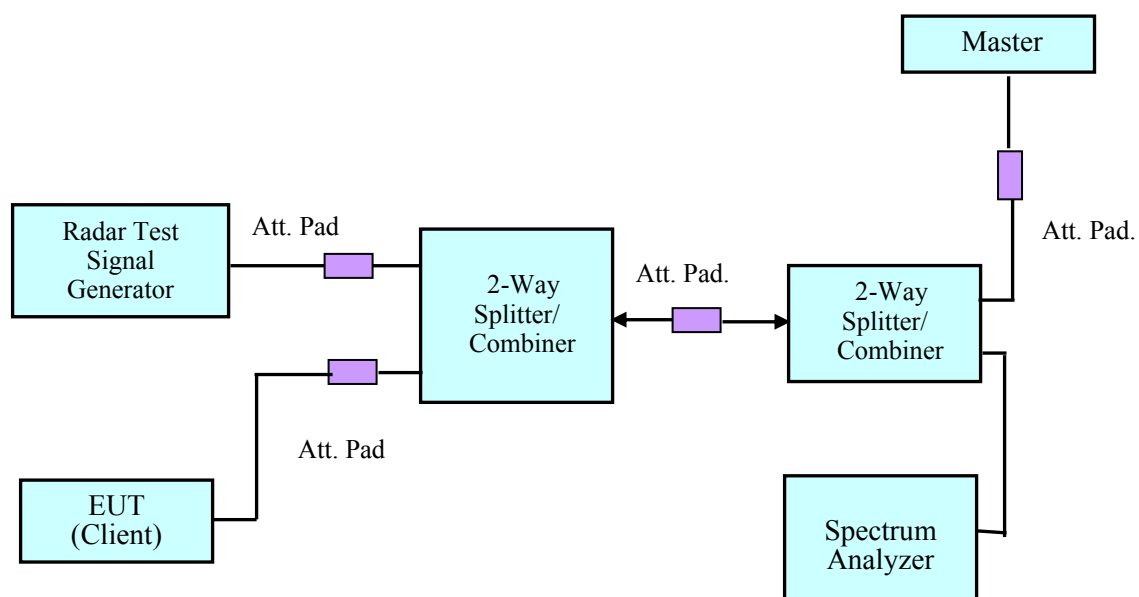
4.3 System Block Diagram



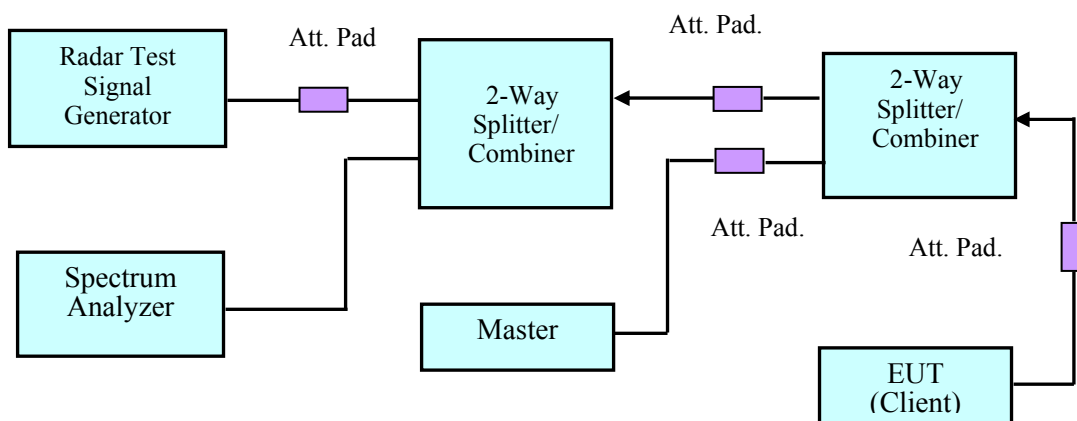
4.4 Conducted Method



Setup for Master with injection at the Master

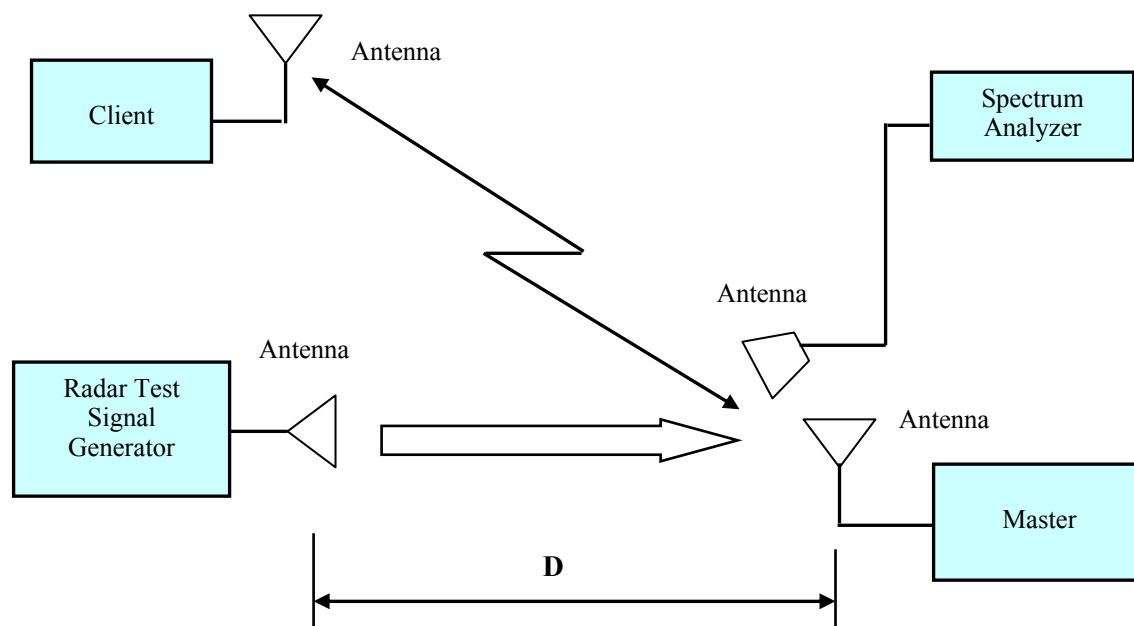


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

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

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

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

The EUT was tested in the host specified in this report with the lowest gain antenna of 3.0 dBi.

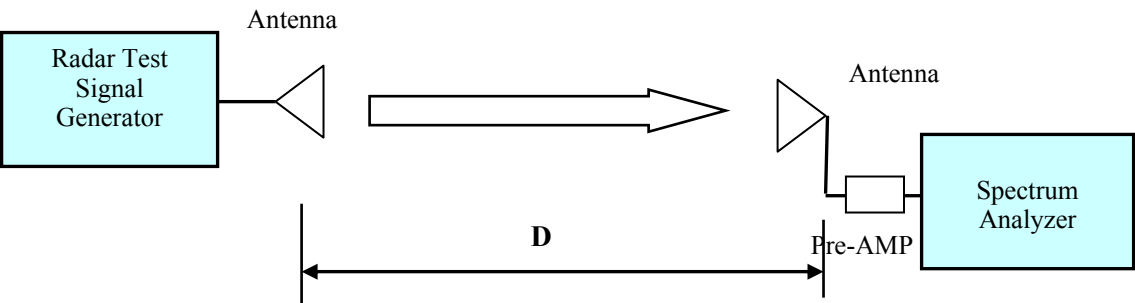
The EUT will not work in 5600-5650 MHz band.

5.2 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	2012-10-16
A.R.A.	Antenna Horn	DRG-118/A	1132	2013-01-29
EMCO	Antenna Horn	3115	9511-4627	2012-10-17
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	2013-02-04

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

5.3 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

5.4 Test Environmental Conditions

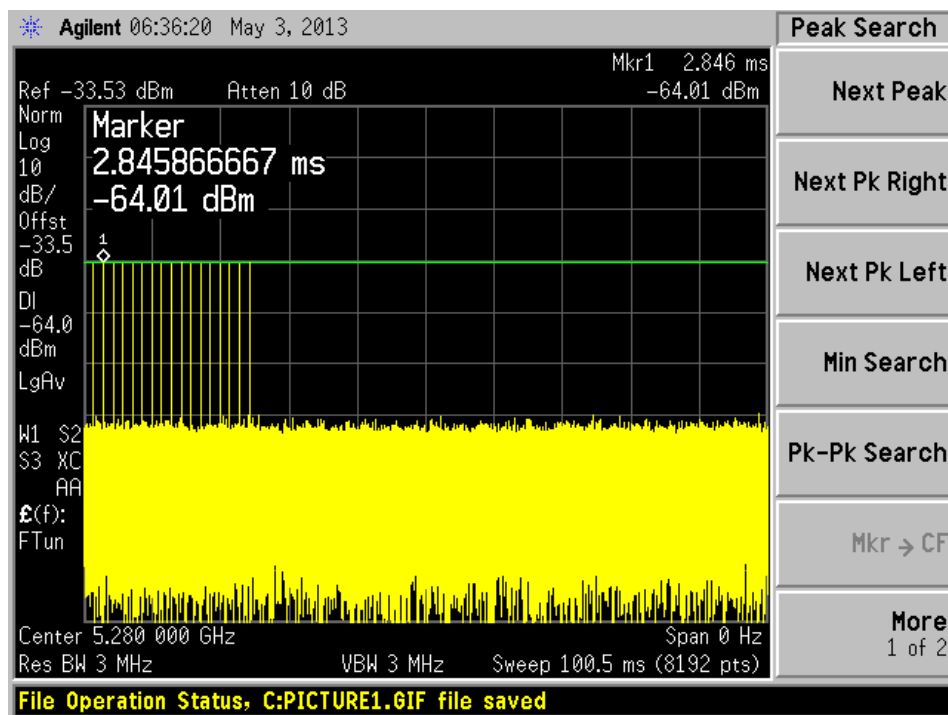
Temperature:	22 °C
Relative Humidity:	32 %
ATM Pressure:	101.6 kPa

Testing performed by Ning Ma on 2013-09-15 at DFS testing site.

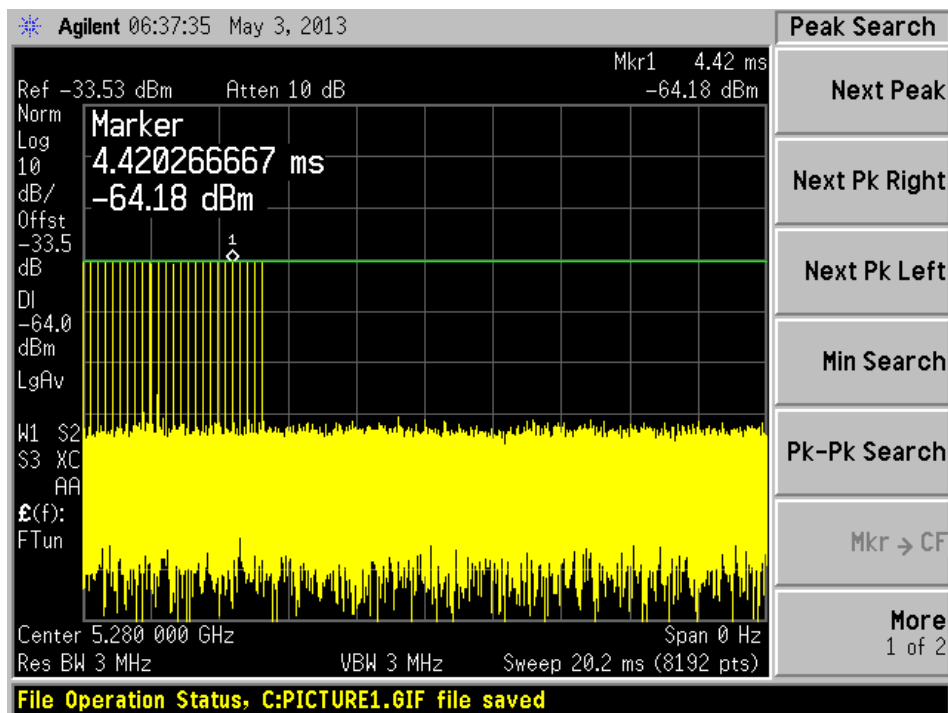
Plots of Radar Waveforms

5280 MHz

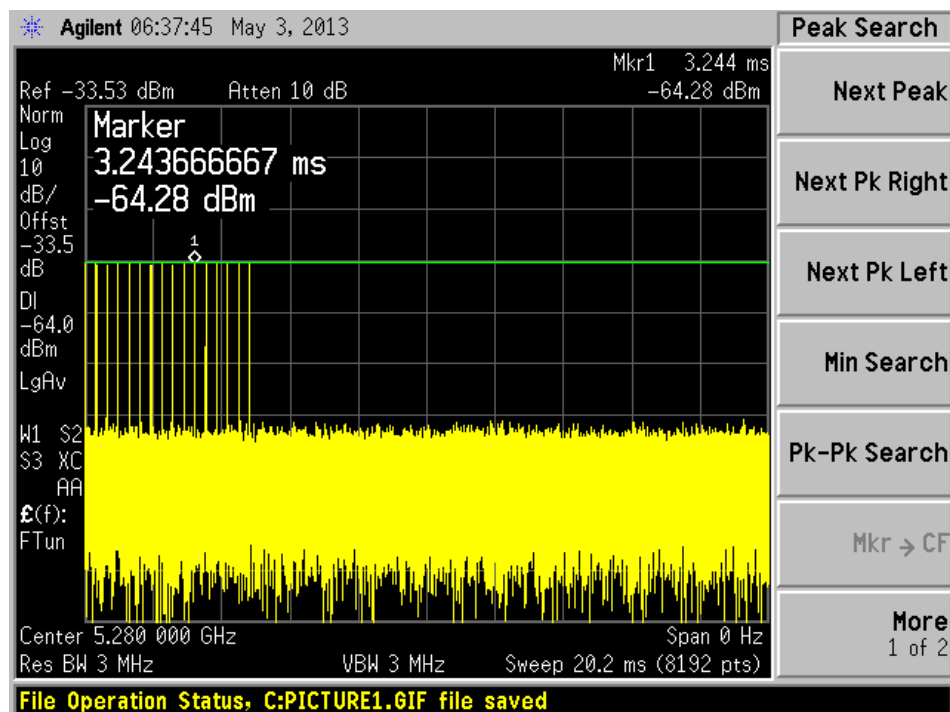
Radar Type 1



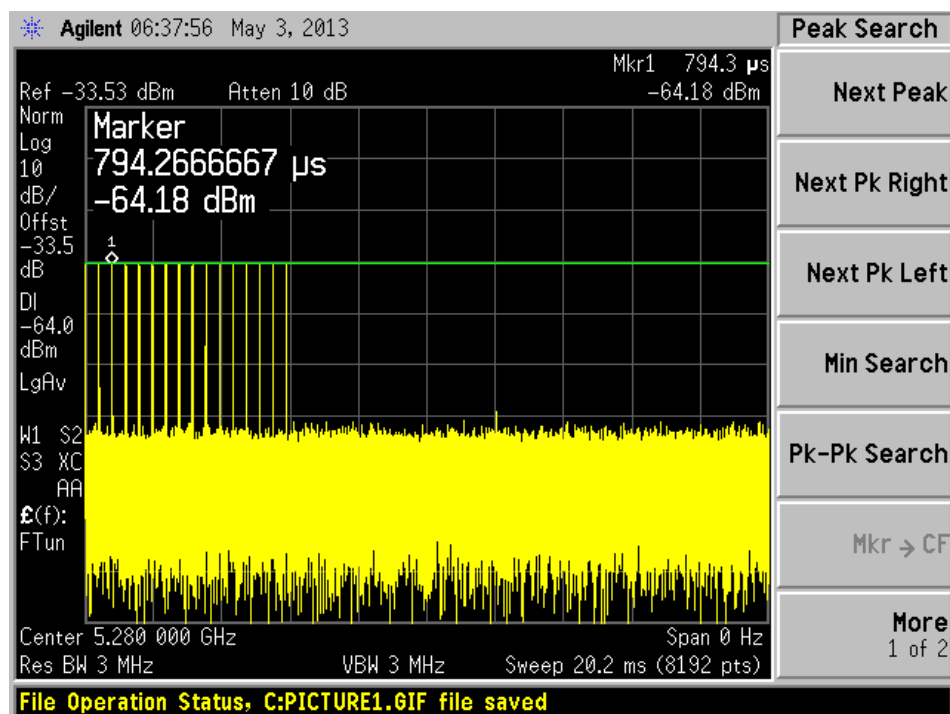
Radar Type 2



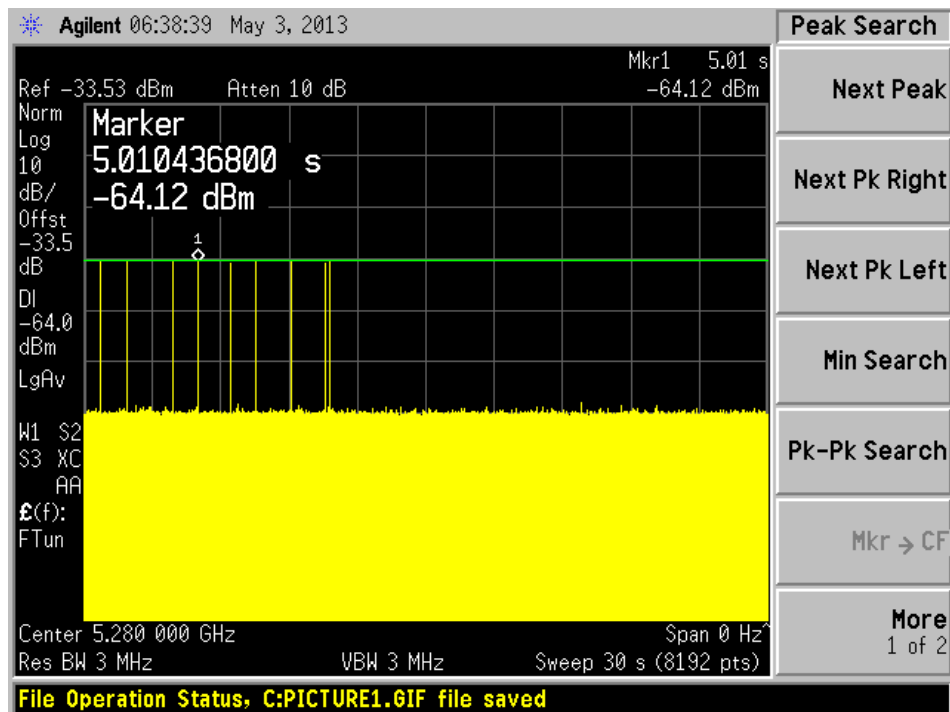
Radar Type 3



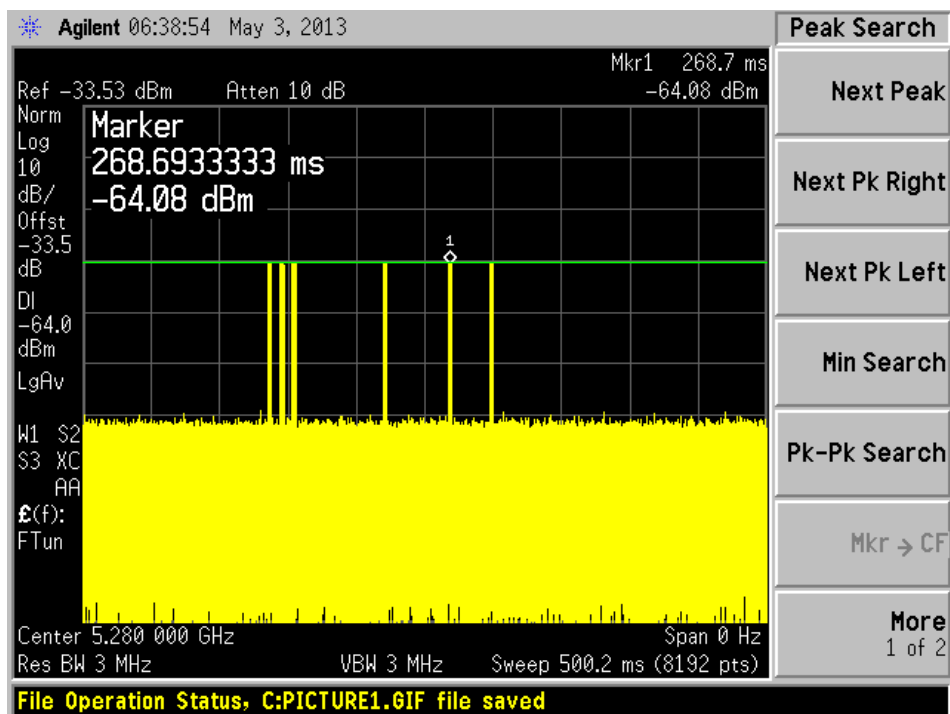
Radar Type 4



Radar Type 5

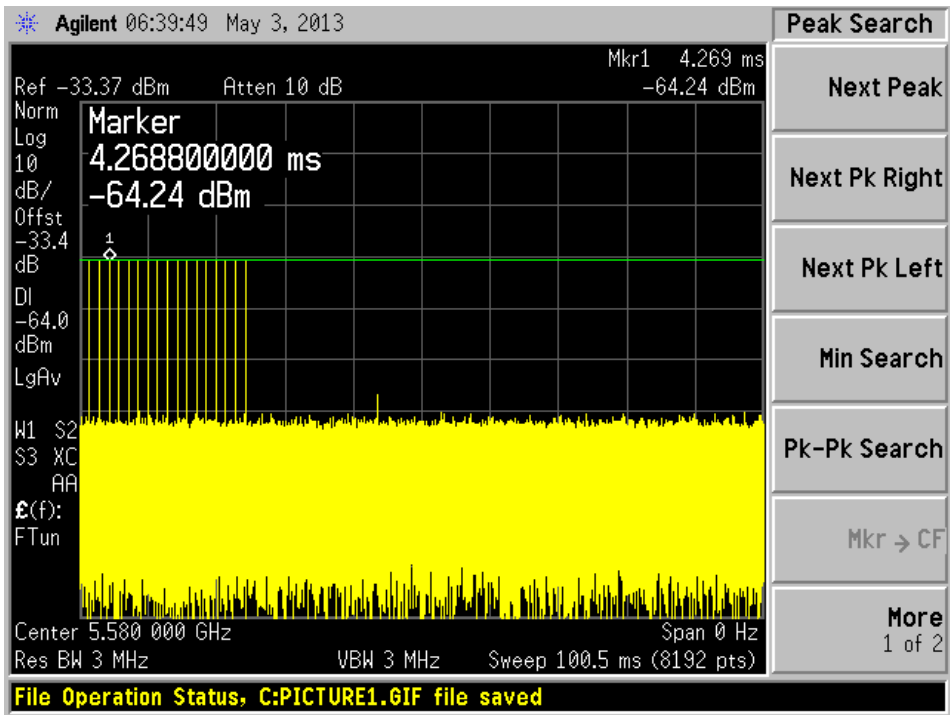


Radar Type 6

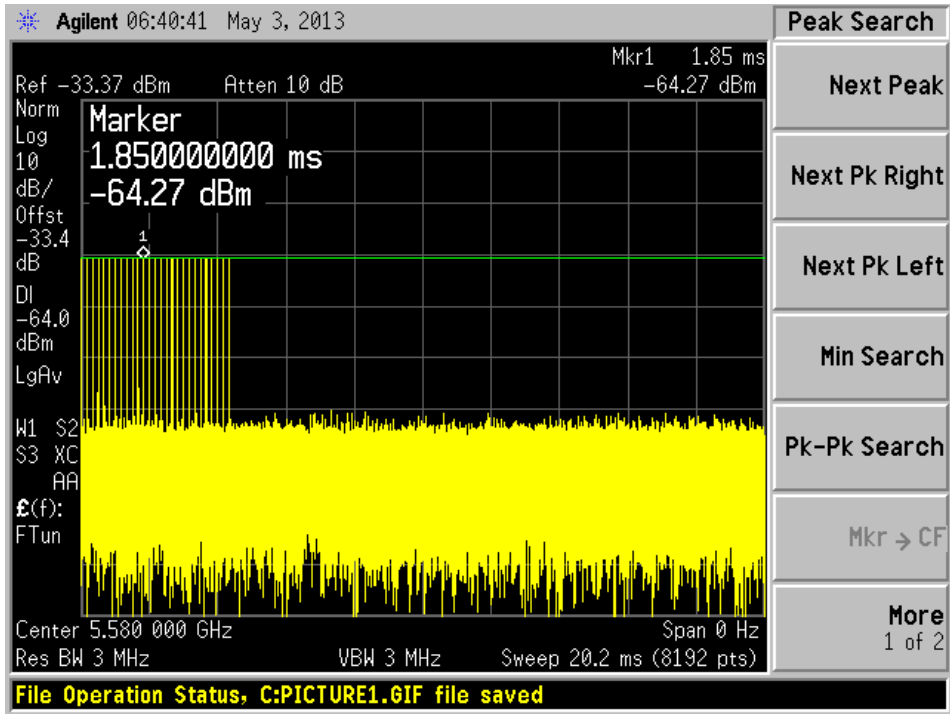


5580 MHz

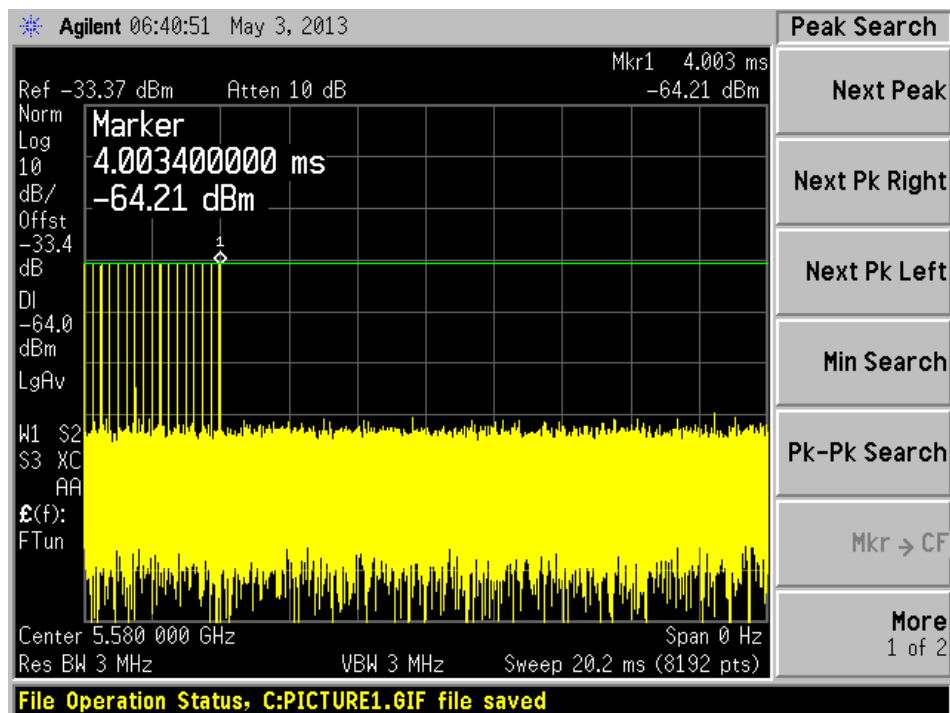
Radar Type 1



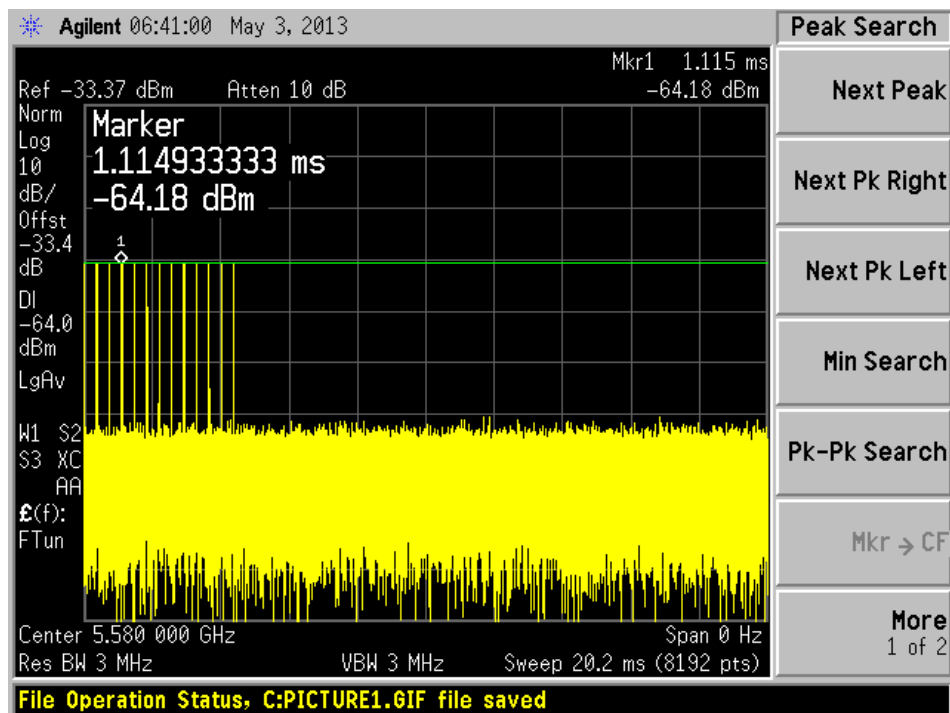
Radar Type 2



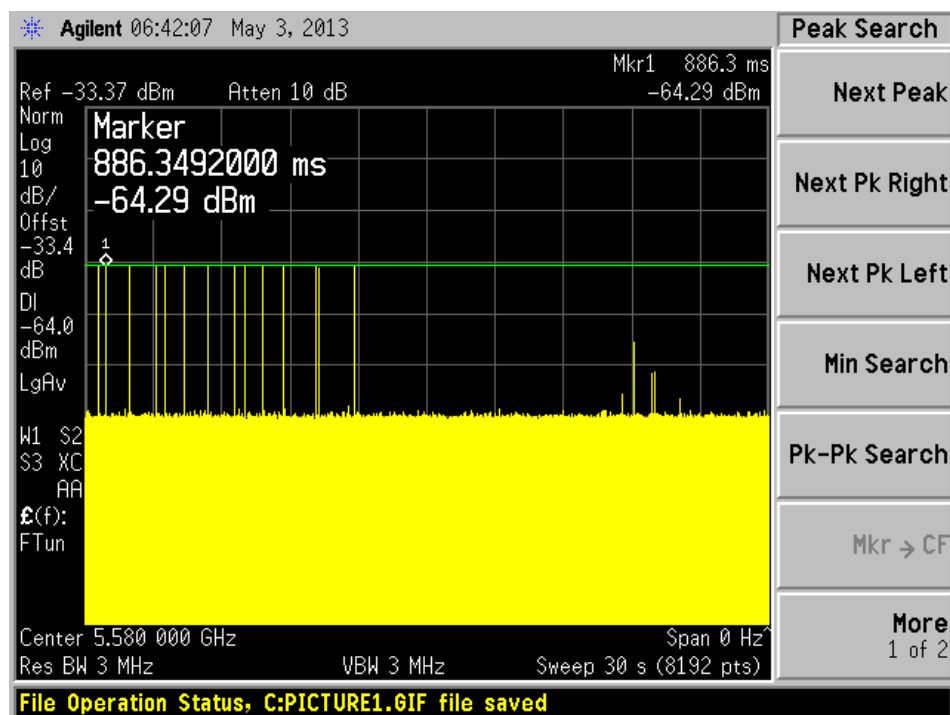
Radar Type 3



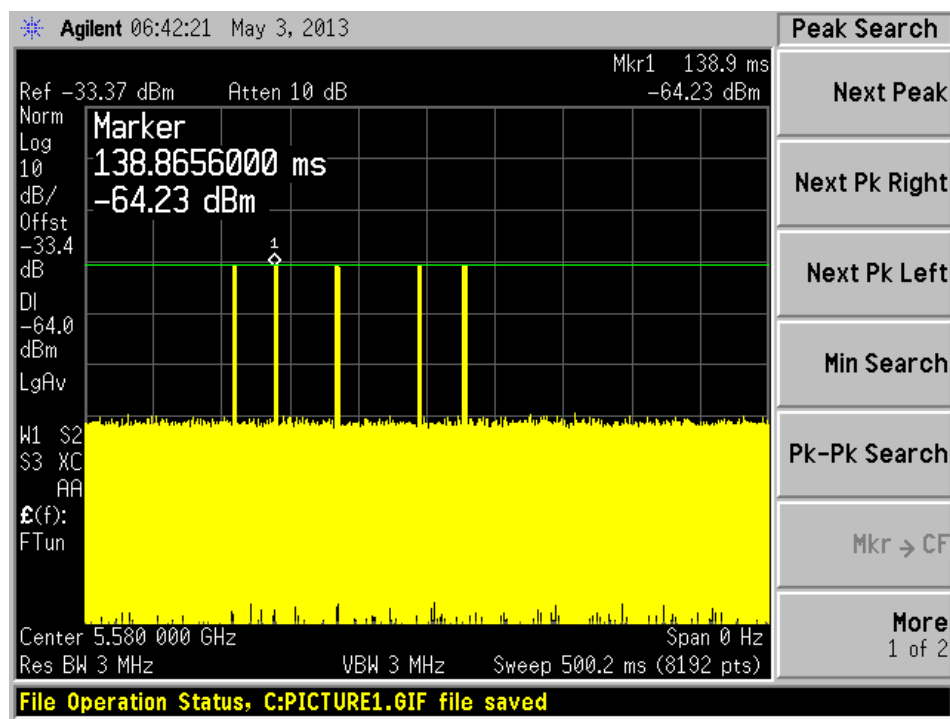
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

- 1) Measure the initial power-up time of EUT.
- 2) With link established on channel, apply a radar signal within 0~6 seconds after the initial power-up period; monitor the transmissions on channel from the spectrum analyzer.
- 3) Reboot EUT, with a link established on channel, apply a radar signal within 54~60 seconds after the initial power-up period, and monitor the transmission on channel from the spectrum analyzer.

EUT Initial power-up Cycle Time

5280 MHz and 5580 MHz Bandwidth 20 MHz

EUT initial Power-up cycle (Second)
25.7

5270 MHz and 5550 MHz Bandwidth 40 MHz

EUT initial Power-up cycle (Second)
26.2

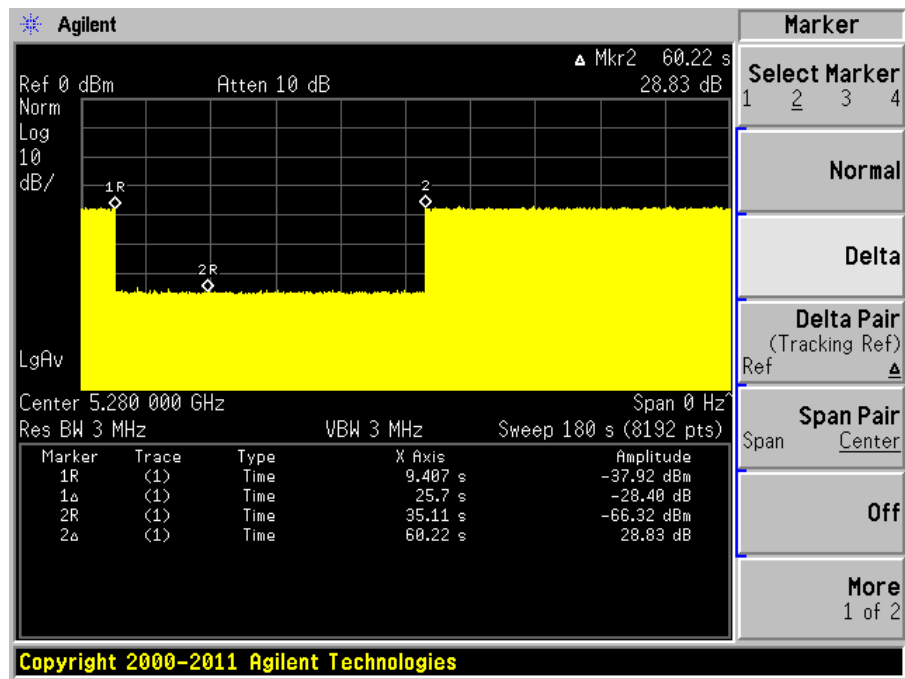
Results:

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.

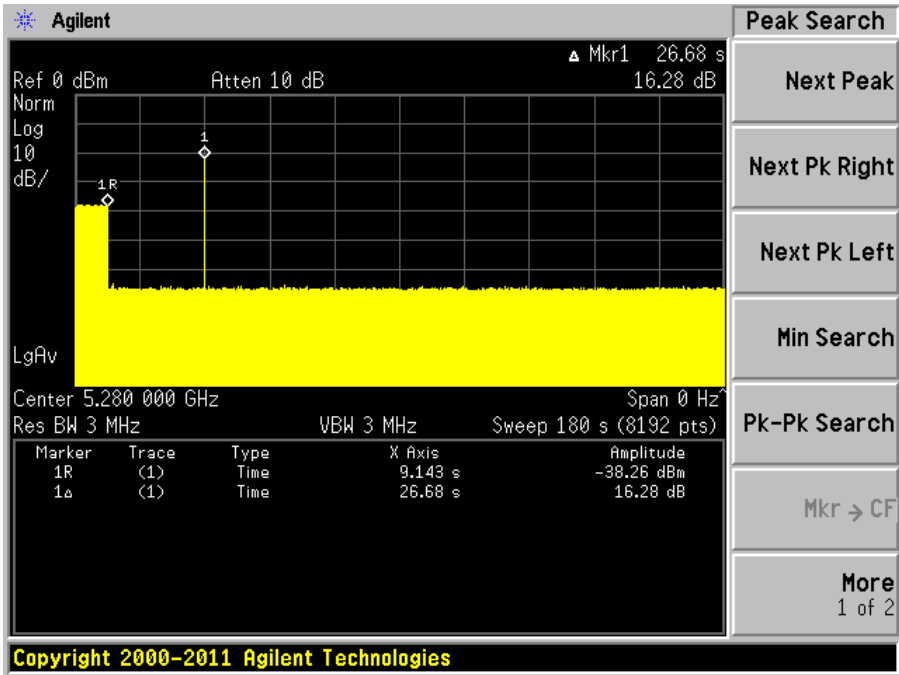
5280 MHz Bandwidth 20 MHz

Plot of without Radar signal applied



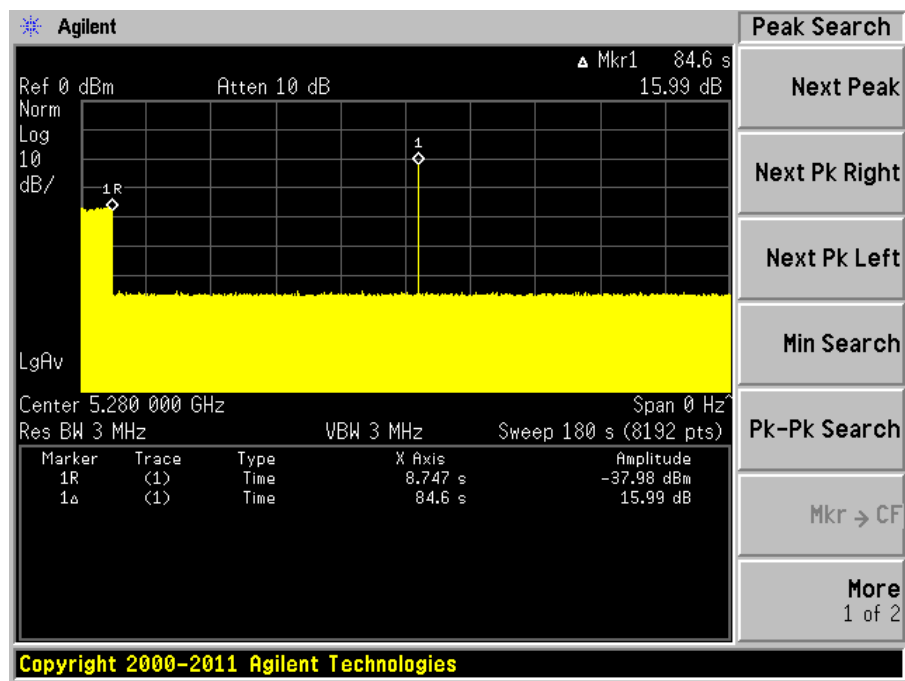
Note: The power-up cycle is 25.7 seconds.

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



No transmissions found after radar signal applied.

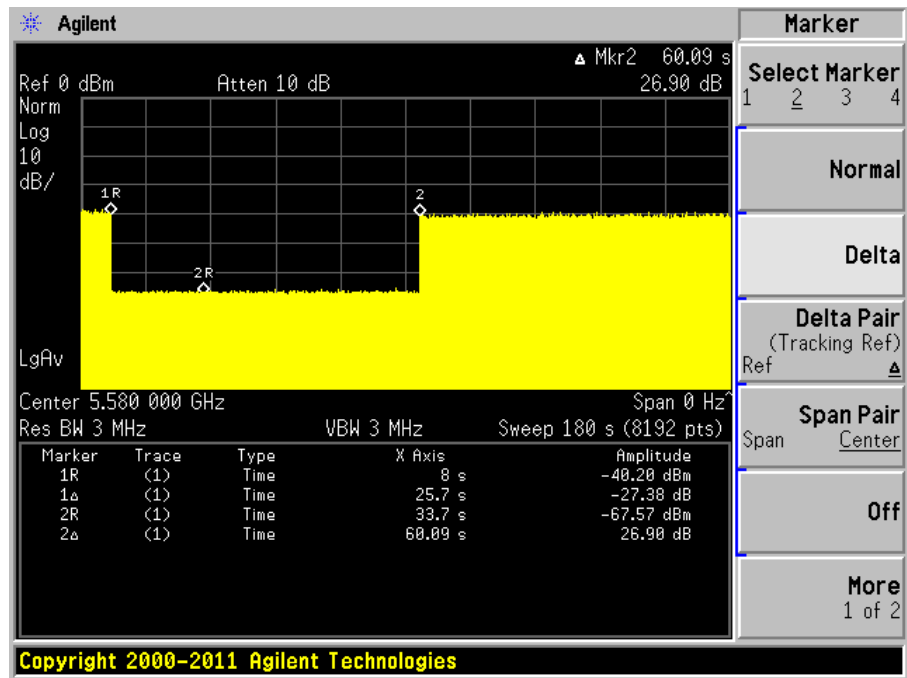
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

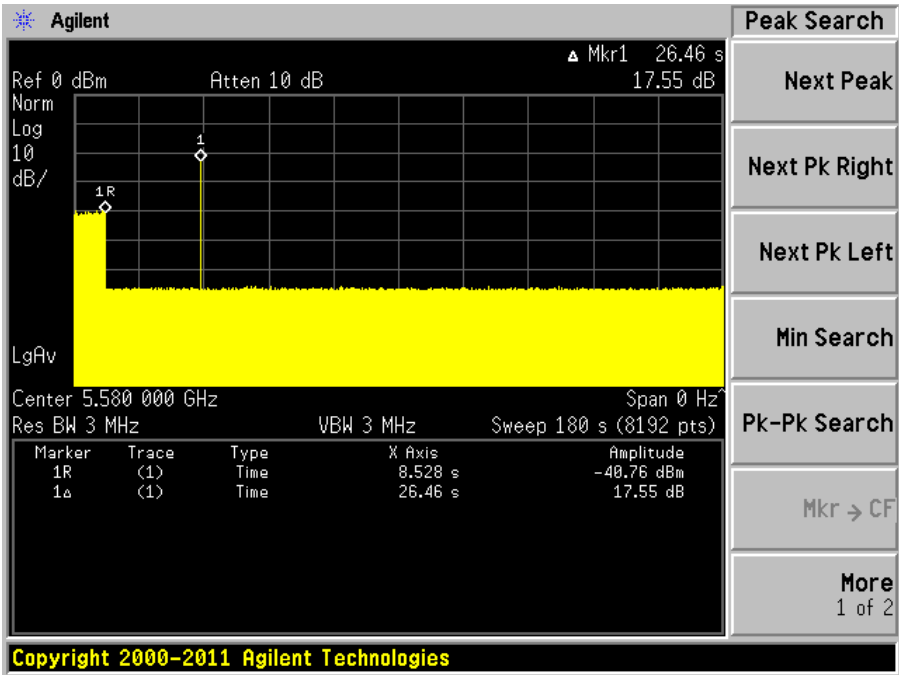
5580 MHz Bandwidth 20 MHz

Plot of without Radar signal applied



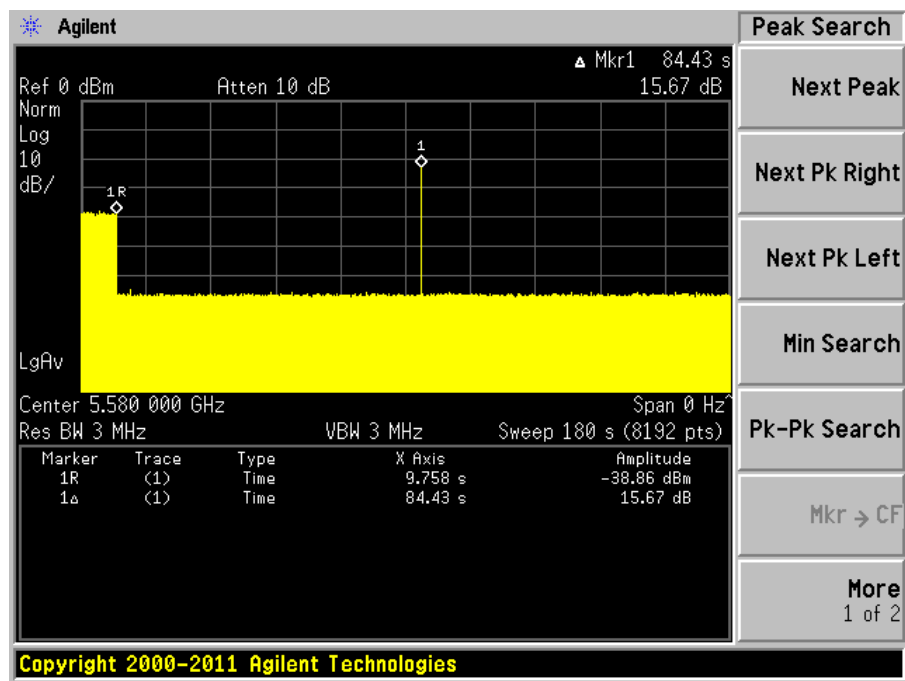
Note: The power-up cycle is 25.7 seconds.

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



No transmissions found after radar signal applied.

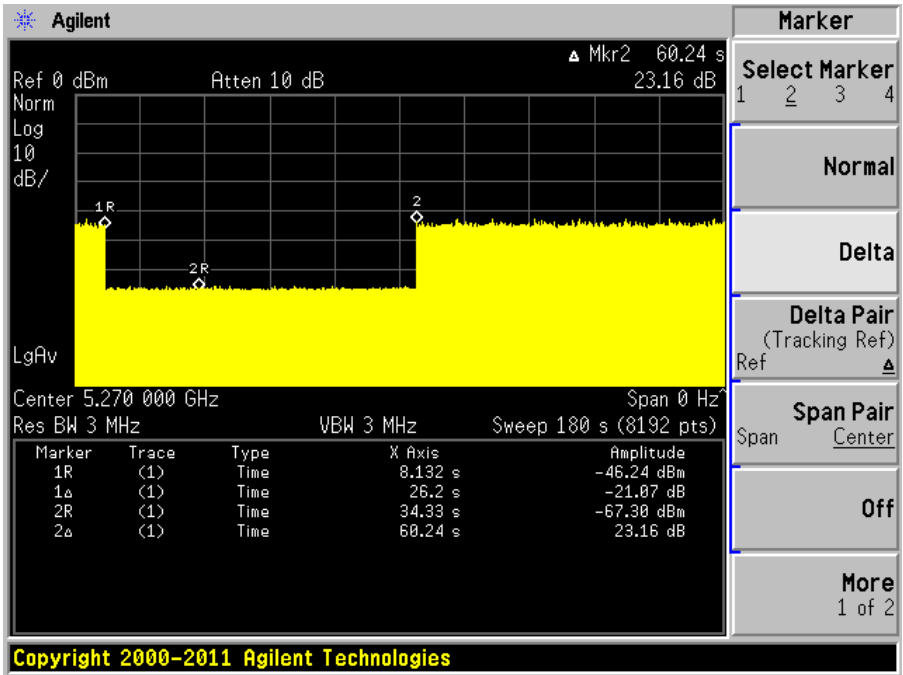
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

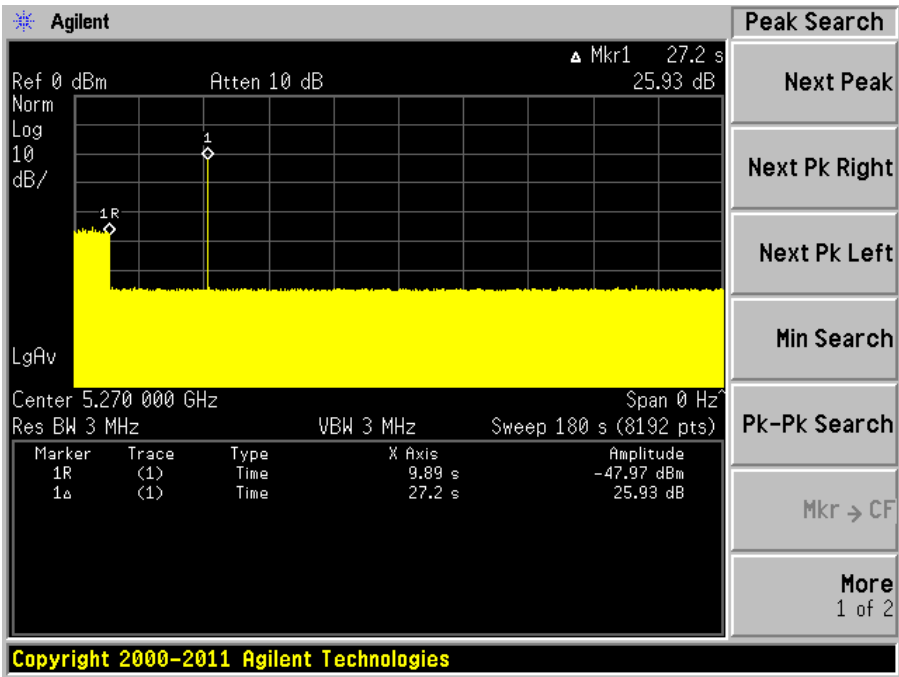
5270 MHz Bandwidth 40 MHz

Plot of without Radar signal applied



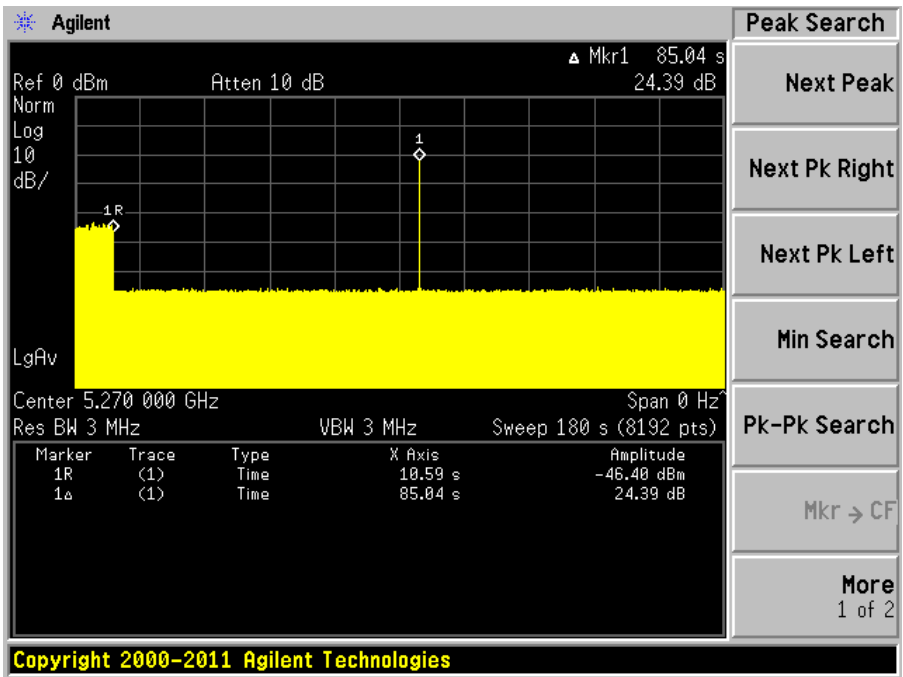
Note: The power-up cycle is 26.2 seconds.

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



No transmissions found after radar signal applied.

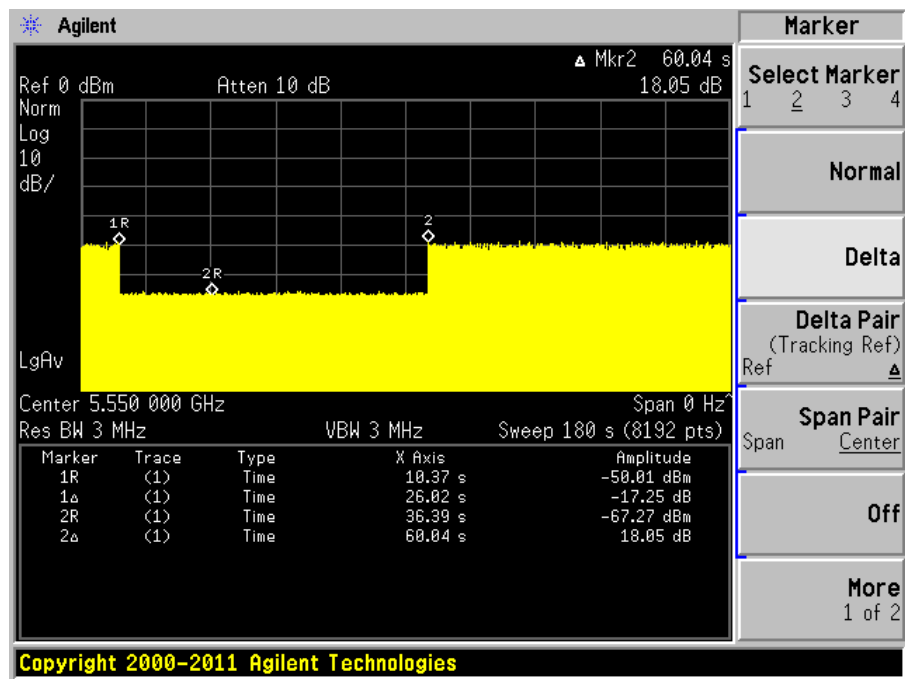
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

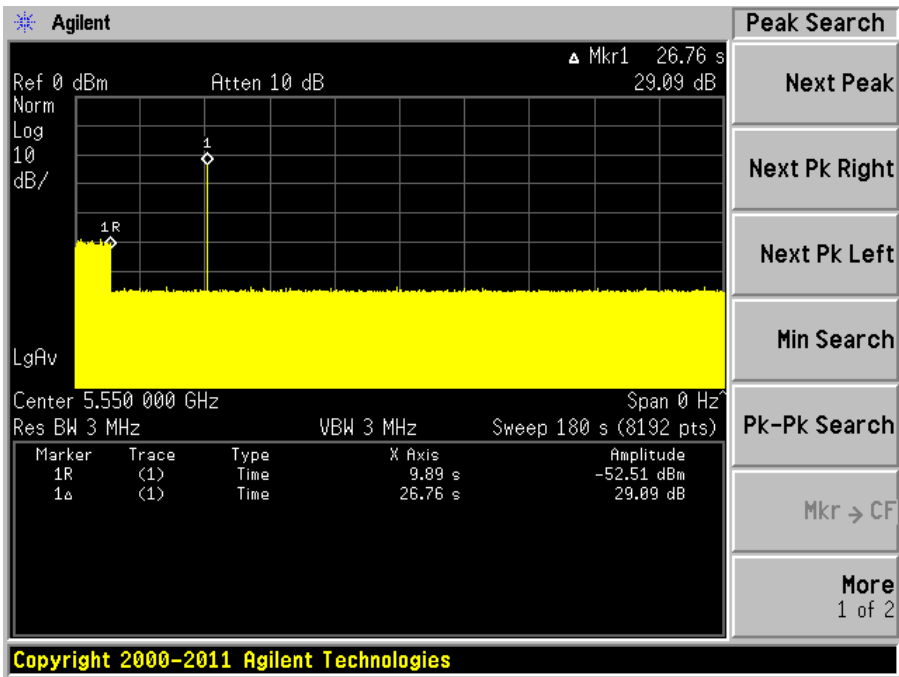
5550 MHz Bandwidth 40 MHz

Plot of without Radar signal applied



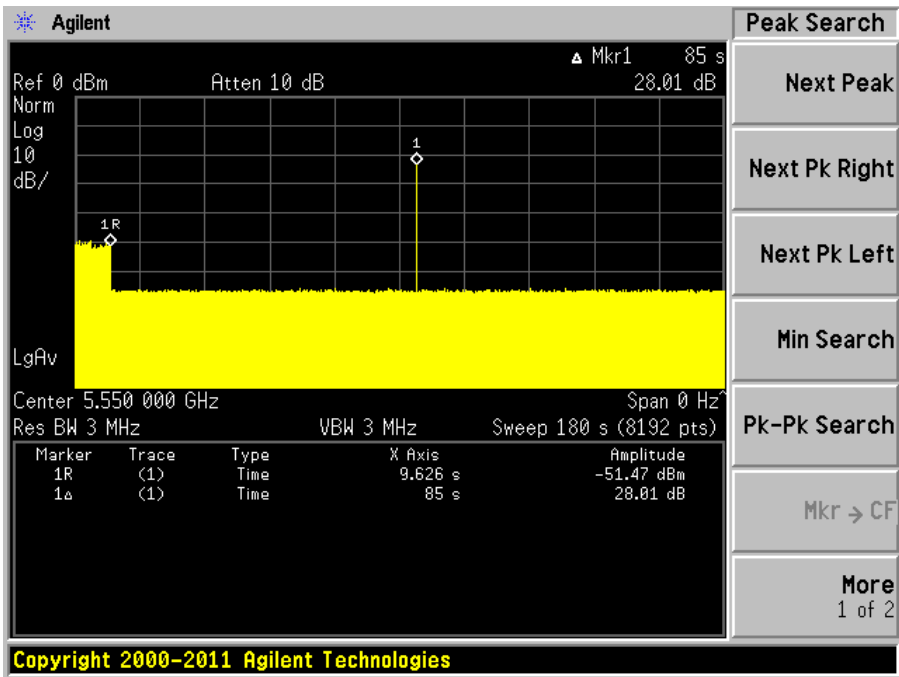
Note: The power-up cycle is 26.2 seconds.

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



No transmissions found after radar signal applied.

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



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

Perform one of the 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)

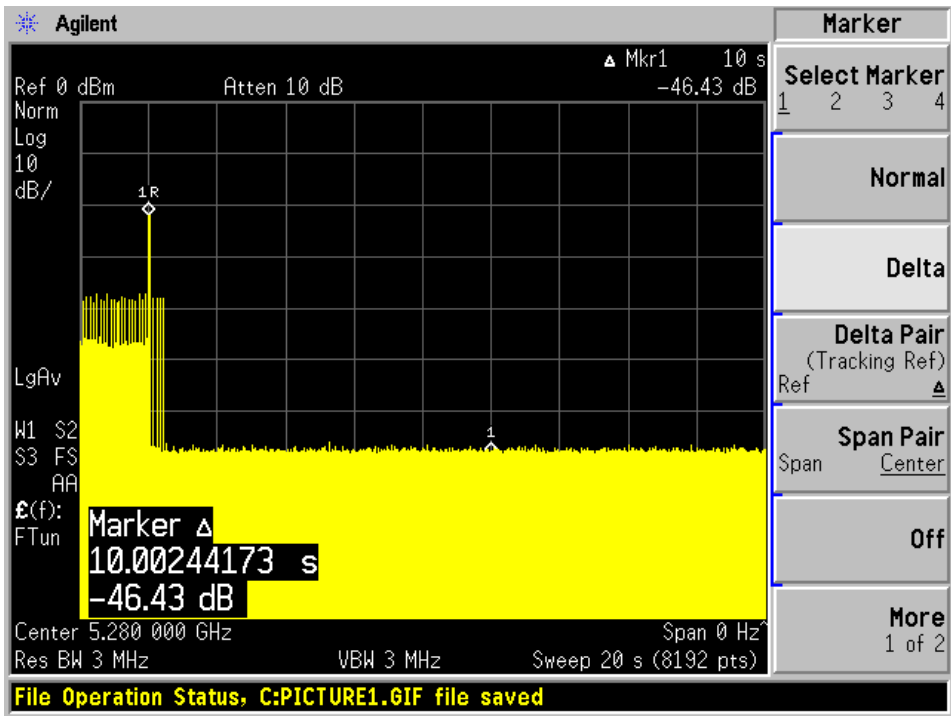
7.2 Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5280	20	Type 1	Compliant
		Type 5	Compliant
5580	20	Type 1	Compliant
		Type 5	Compliant
5270	40	Type 1	Compliant
		Type 5	Compliant
5550	40	Type 1	Compliant
		Type 5	Compliant

Please refer to the following tables and plots.

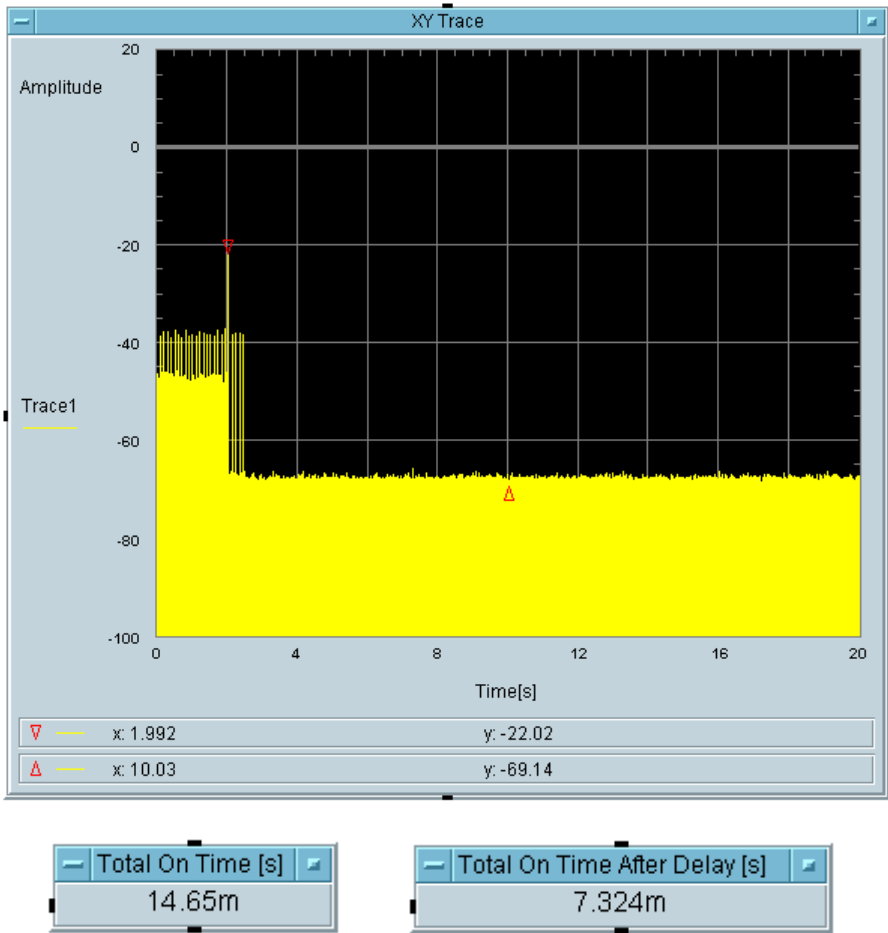
5280 MHz Bandwidth 20 MHz

Type 1 radar channel move time result:



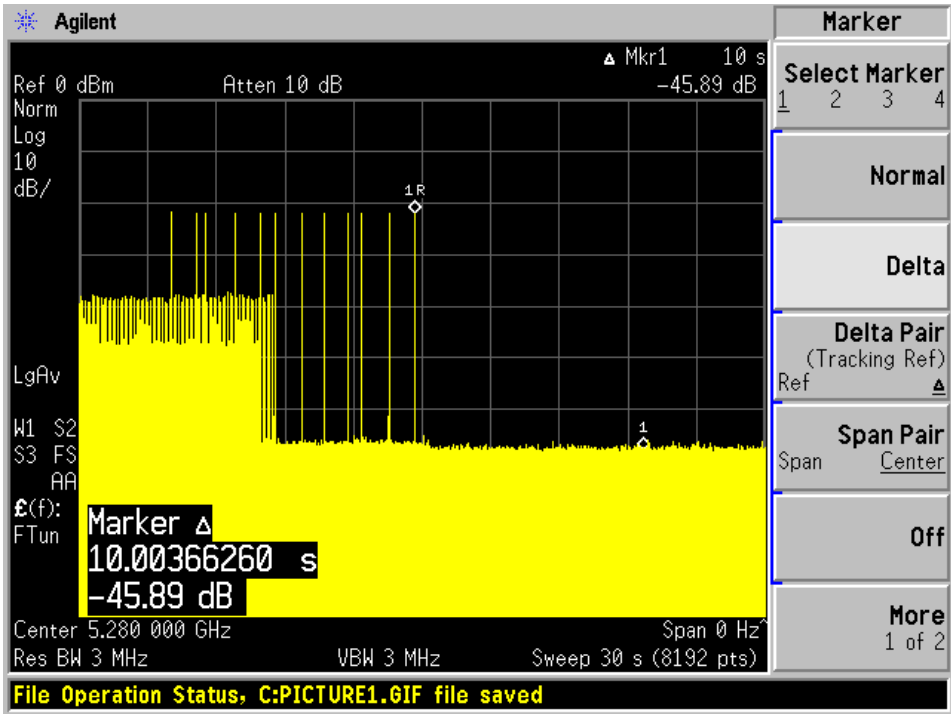
Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
7.324	60	52.676



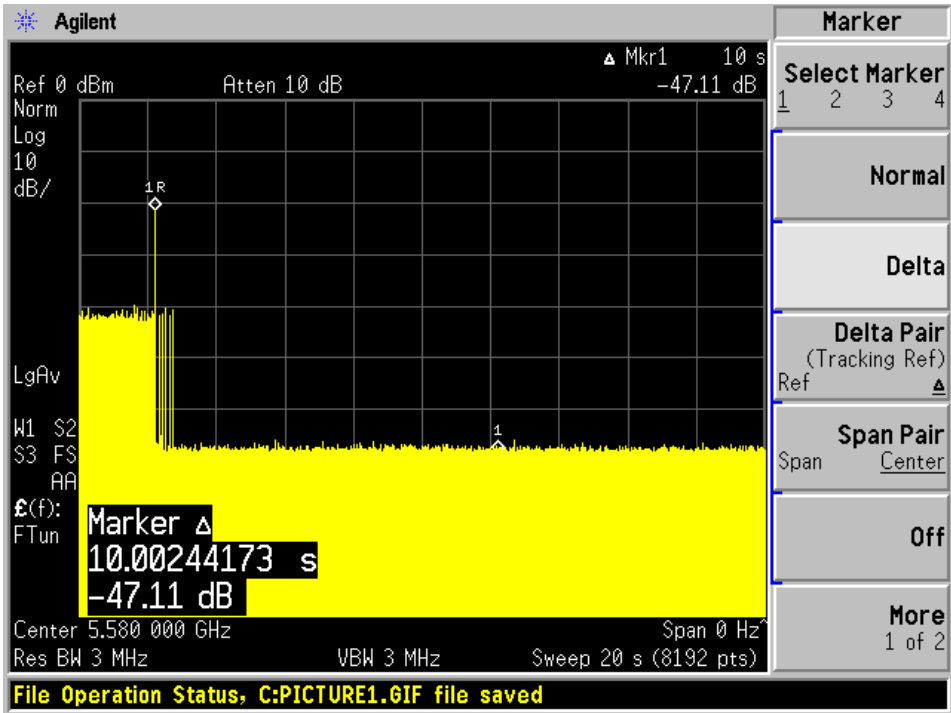
Type 5 radar channel move time result:

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



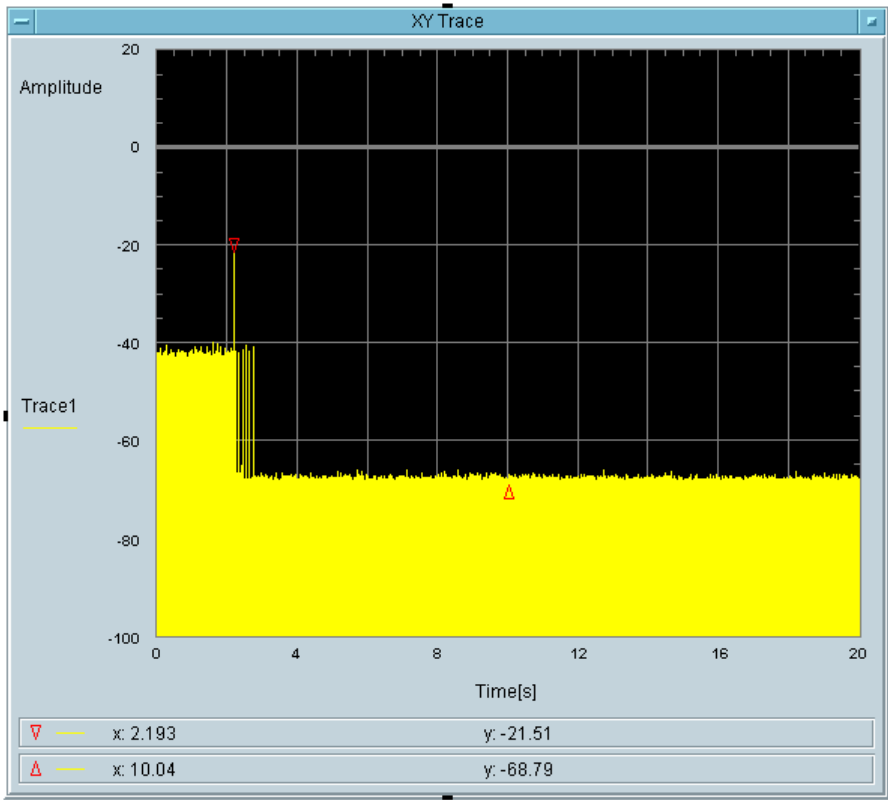
5580 MHz Bandwidth 20 MHz

Type 1 radar channel move time result:



Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.766	60	50.234

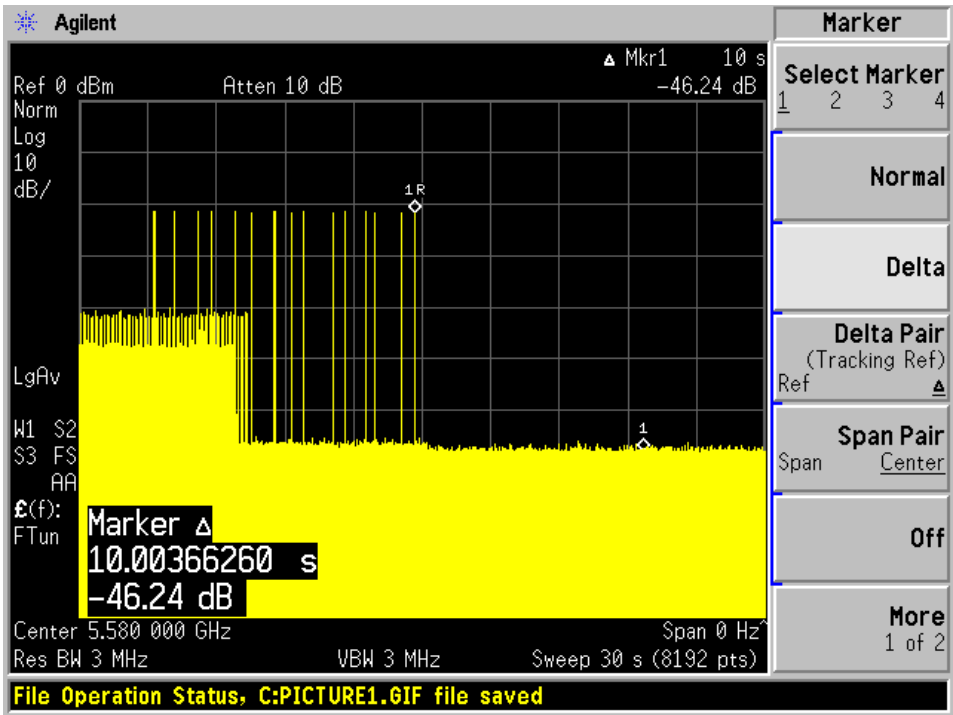


Total On Time [s]
17.09m

Total On Time After Delay [s]
9.766m

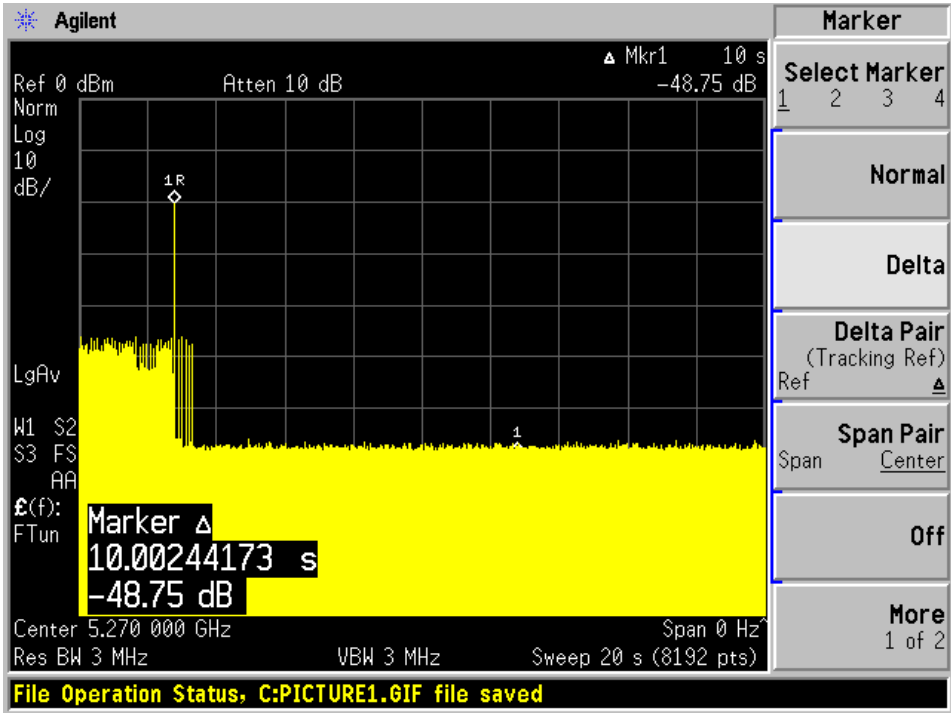
Type 5 radar channel move time result:

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



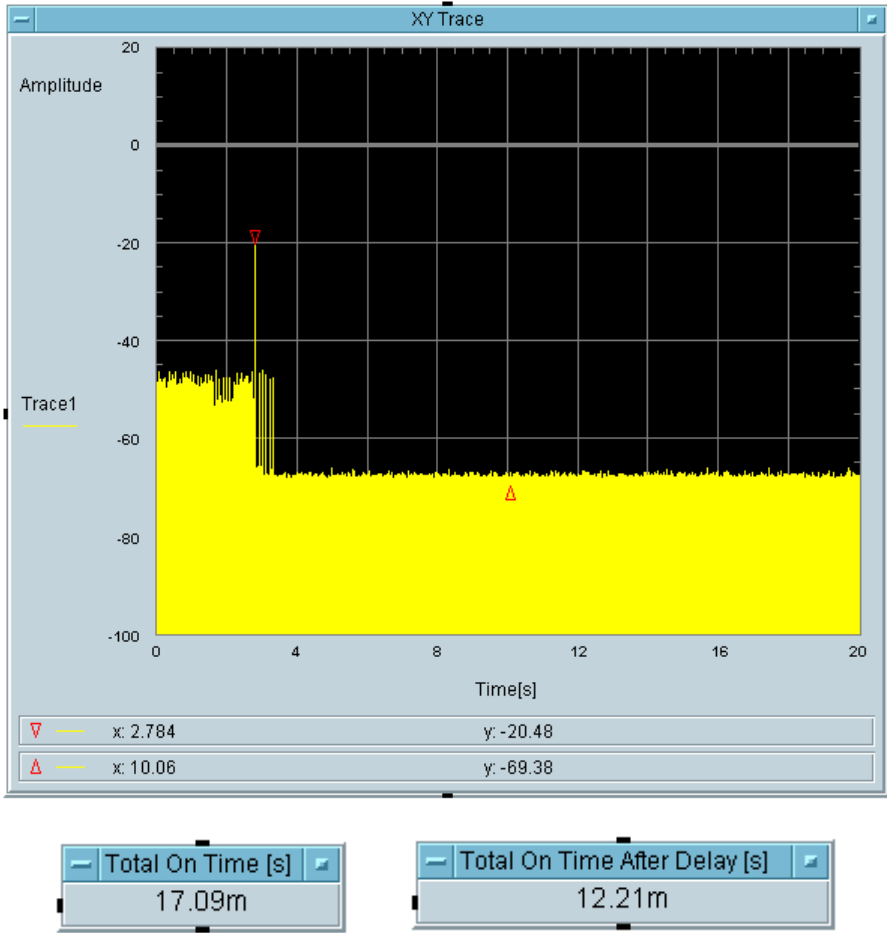
5270 MHz Bandwidth 40 MHz

Type 1 radar channel move time result:



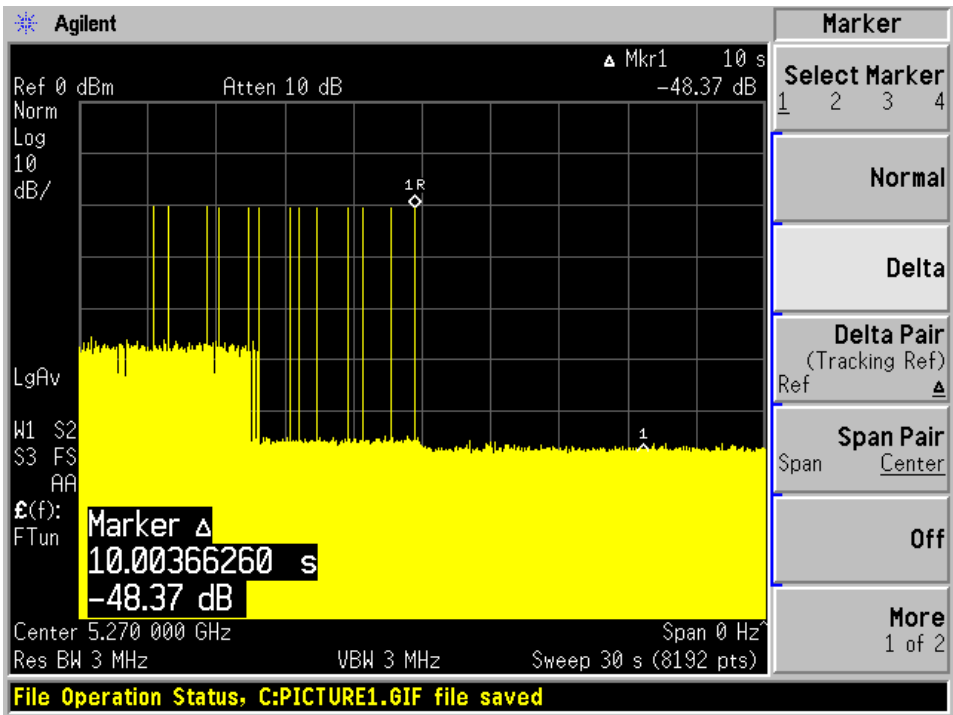
Type2 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
12.21	60	47.79



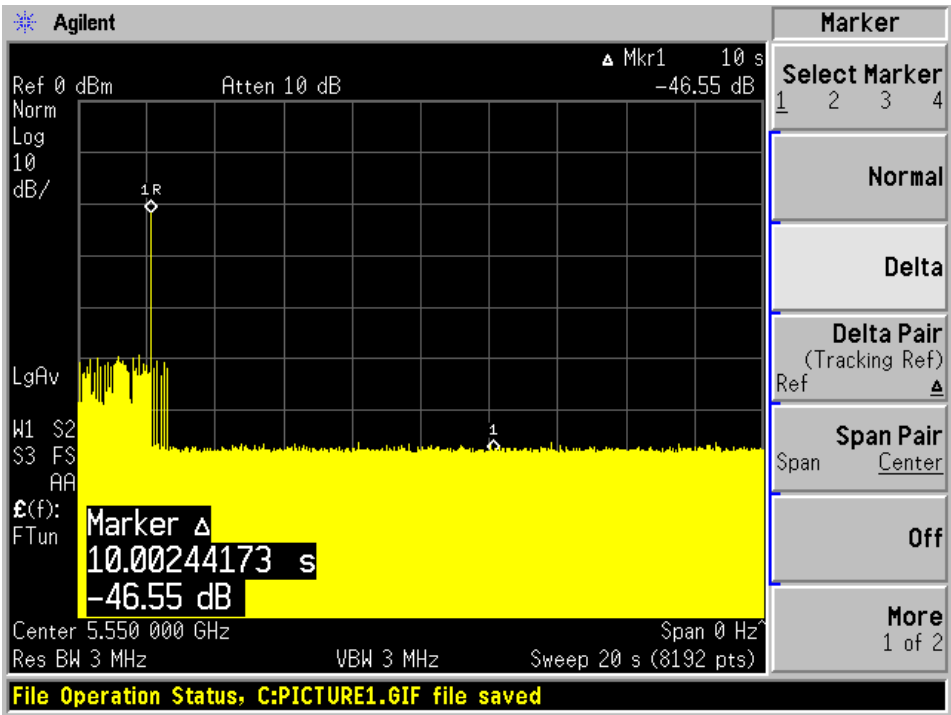
Type 5 radar channel move time result:

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



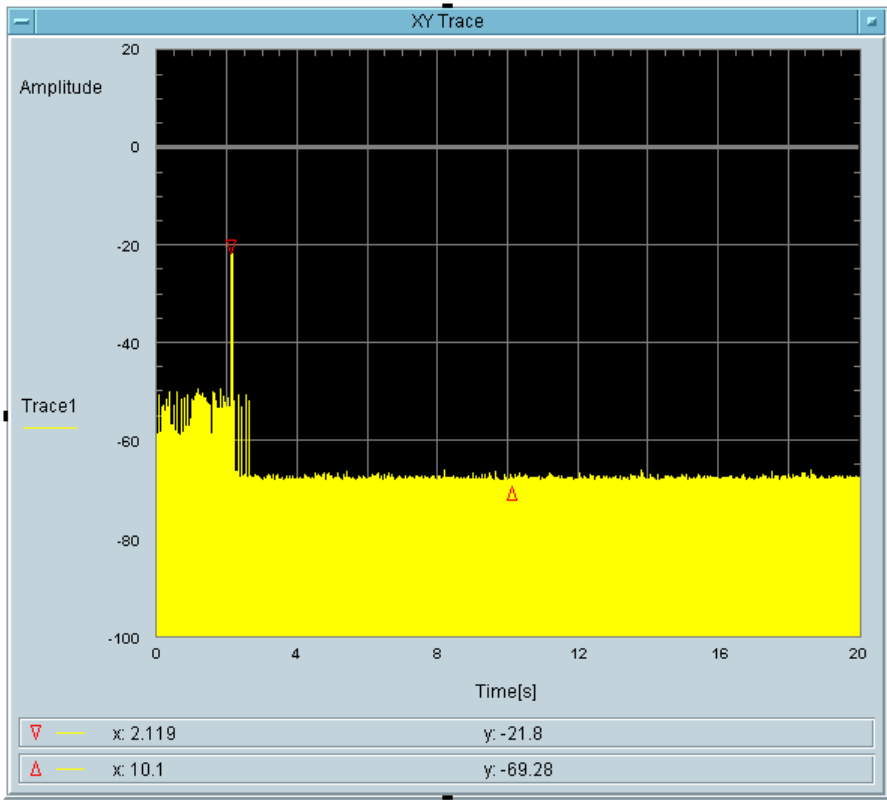
5550 MHz Bandwidth 40 MHz

Type 1 radar channel move time result:



Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
7.324	60	52.676

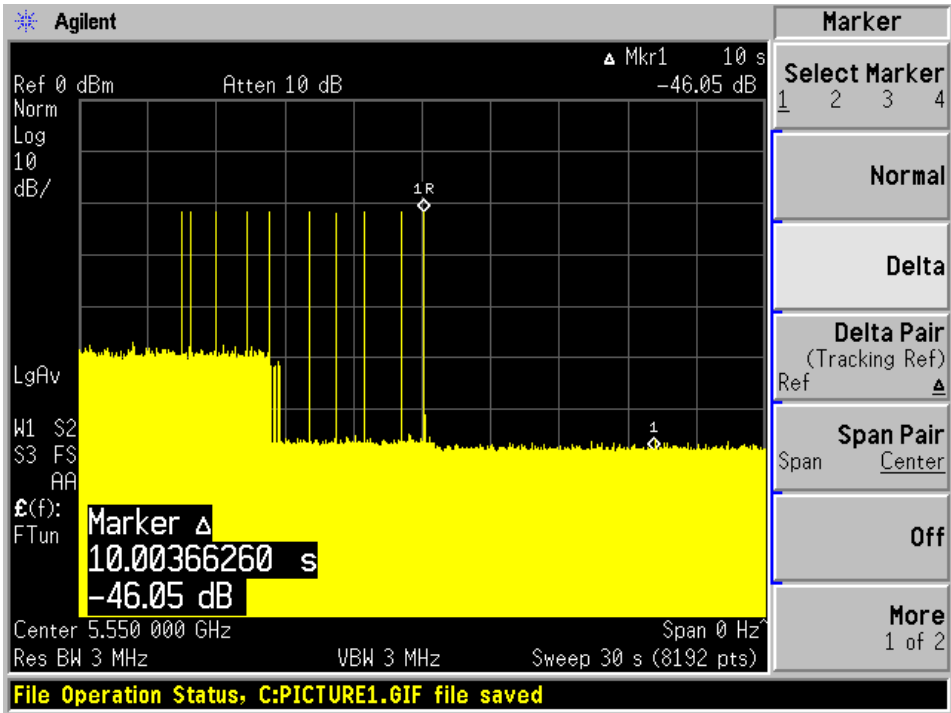


Total On Time [s]
14.65m

Total On Time After Delay [s]
7.324m

Type 5 radar channel move time result:

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



8 Non-Occupancy Period

8.1 Test Procedure

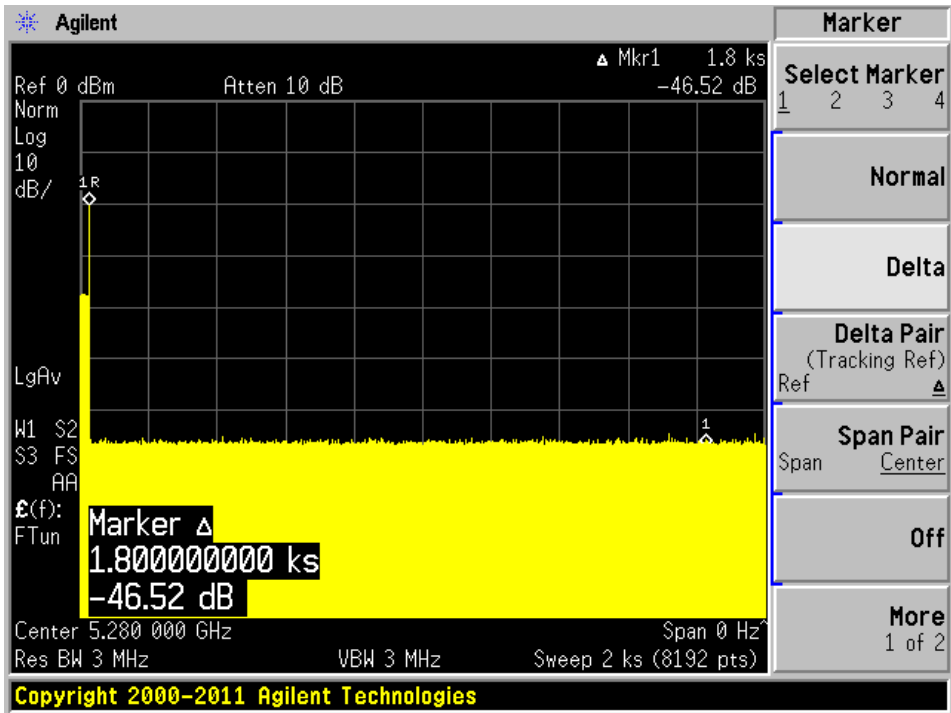
Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

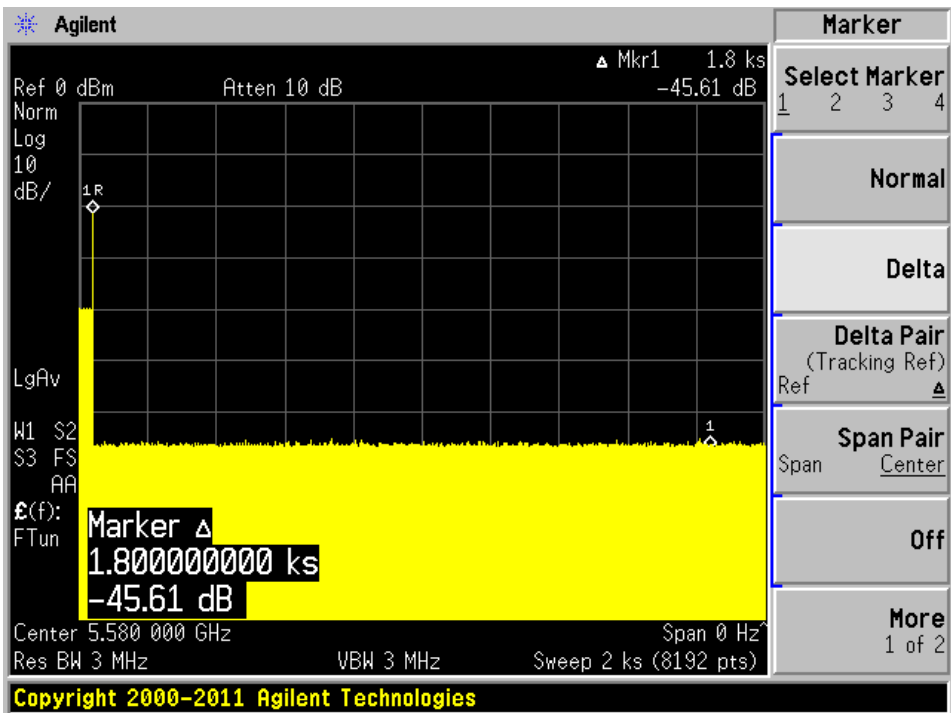
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5280	20	No transmission within 30 minutes
5580	20	No transmission within 30 minutes
5270	40	No transmission within 30 minutes
5550	40	No transmission within 30 minutes

Please refer to the following plots.

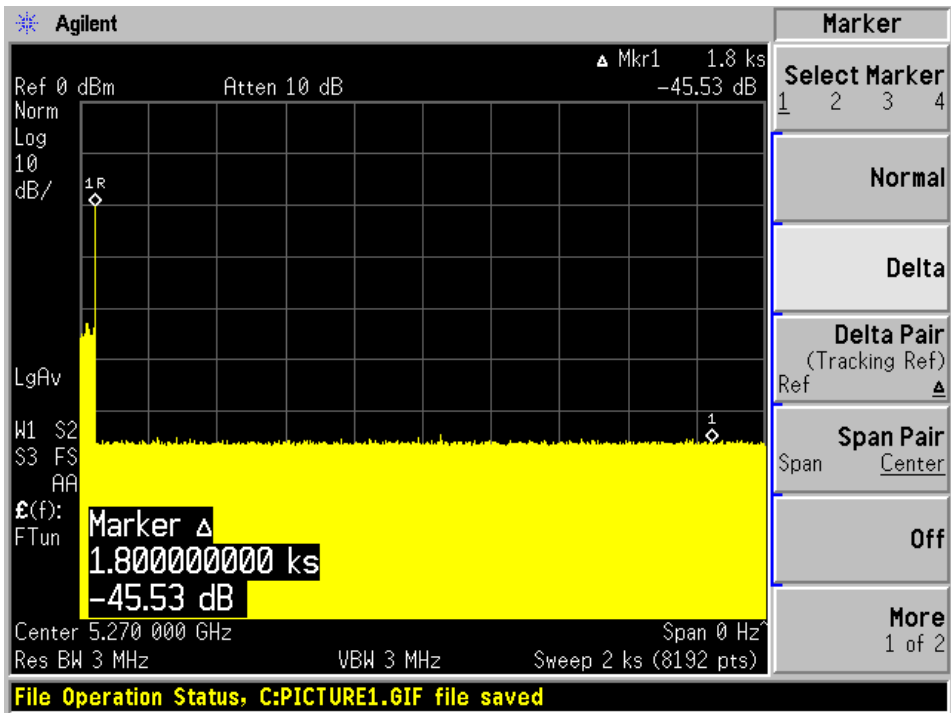
5280 MHz Bandwidth 20 MHz



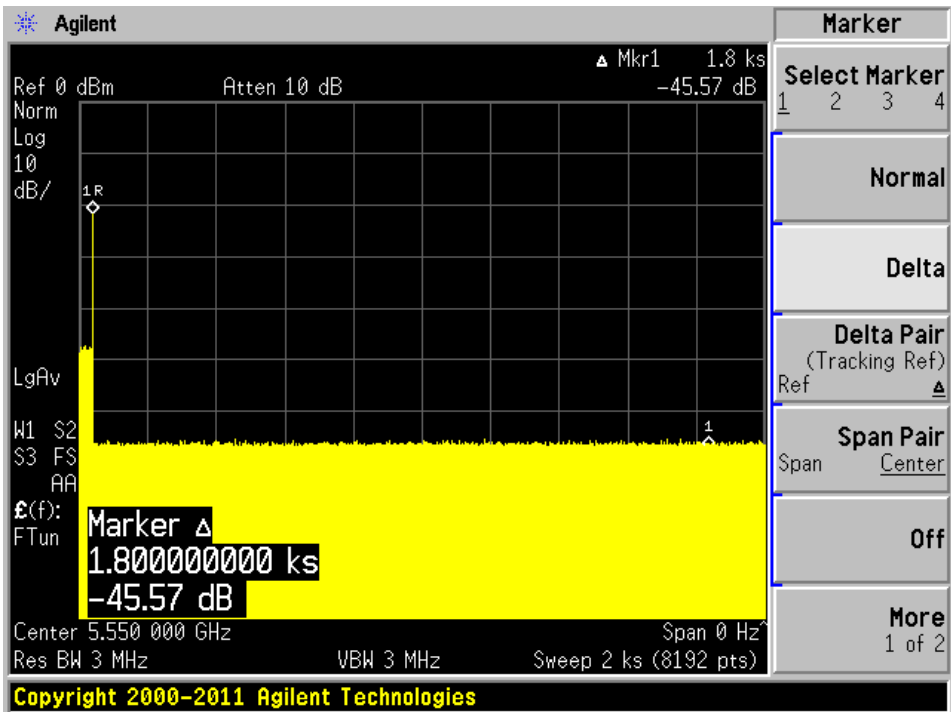
5580 MHz Bandwidth 20 MHz



5270 MHz Bandwidth 40 MHz



5550 MHz Bandwidth 40 MHz



9 Radar Detection Bandwidth & Radar Detection Performance Check

9.1 Detection Bandwidth

Procedure:

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

Start with radar generator frequency set to the center of the channel (F_c)

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 $F_c - 1$ 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
5270	5250	5290	40	80%	Compliance
5550	5530	5570	40	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	1	0	0	0	0	0	0	0	0	0	10 %
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	0	1	1	1	1	90 %
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(F _c)	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% OBW = 17.6984 MHz; 17.6984x80%=14.15872 MHz								Result:	Pass		

EUT Frequency = 5580 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5569	0	0	0	0	0	0	0	0	0	0	0 %
5570(F _L)	1	1	1	1	1	1	1	1	1	1	100 %
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 (F _c)	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% OBW = 17.7092 MHz; 17.7092x80%=14.16736 MHz								Result:		Pass	

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5252	1	1	1	1	1	1	1	1	1	1	100 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5256	1	1	1	1	1	1	1	1	1	1	100 %
5258	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5262	1	1	1	1	1	1	1	1	1	1	100 %
5264	1	1	1	1	1	1	1	1	1	1	100 %
5266	1	1	1	1	1	1	1	1	1	1	100 %
5268	1	1	1	1	1	1	1	1	1	1	100 %
5270(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5276	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5284	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5288	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 = $F_H - F_L = 5290 - 5250 = 40$ MHz											
EUT 99% OBW = 36.5570 MHz; 36.5570x80%=29.2456 MHz								Result:	Pass		

EUT Frequency = 5550 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5529	0	0	0	0	0	0	0	0	0	0	0 %
5530(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5531	1	1	1	1	1	1	1	1	1	1	100 %
5532	1	1	1	1	1	1	1	1	1	1	100 %
5534	1	1	1	1	1	1	1	1	1	1	100 %
5536	1	1	1	1	1	1	1	1	1	1	100 %
5538	1	1	1	1	1	1	1	1	1	1	90 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5542	1	1	1	1	1	1	1	1	1	1	100 %
5544	1	1	1	1	1	1	1	1	1	1	100 %
5546	1	1	1	1	1	1	1	1	1	1	100 %
5548	1	1	1	1	1	1	1	1	1	1	100 %
5550 (F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5552	1	1	1	1	1	1	1	1	1	1	100 %
5554	1	1	1	1	0	1	1	1	1	1	90 %
5556	1	1	1	1	1	1	1	1	1	0	90 %
5558	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	0	1	1	1	90 %
5562	1	1	1	1	1	1	1	1	1	1	100 %
5564	1	1	1	1	1	1	1	1	1	1	100 %
5566	1	1	1	1	1	1	0	1	1	1	90 %
5568	1	1	1	1	1	1	1	1	1	1	100 %
5569	1	1	1	1	1	1	1	1	1	1	100 %
5570(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5571	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F _H – F _L = 5570 – 5530 = 40 MHz											
EUT 99% OBW = 36.4439 MHz; 36.4439x80%=29.15512 MHz						Result:		Pass			

9.2 Radar Detection Performance Check

Procedure:

Stream MPEG file from master to slave

Generate radar waveform

Record whether or not the waveform was detected

At least 30 trials are applied for each radar type

For radar types with randomized parameters, each trial uses a unique waveform

Perform with each of the radar types 1-6

Confirm that the detection rate for each radar type meets the minimum requirement

Type 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	90 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	97.5 %	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	24	4.8	190	1
2	5280	25	4.3	209	1
3	5280	23	4.1	159	1
4	5280	26	3	227	1
5	5280	28	1.6	182	1
6	5280	24	4	150	1
7	5280	26	4.1	164	1
8	5280	29	1.5	164	0
9	5280	27	2.9	199	1
10	5280	26	2.6	166	1
11	5280	25	2	206	0
12	5280	25	1.6	167	1
13	5280	28	1.8	154	1
14	5280	25	1.1	190	1
15	5280	27	3.1	225	1
16	5280	23	3.2	173	1
17	5280	26	1.6	199	1
18	5280	26	1.7	206	0
19	5280	27	3.8	227	1
20	5280	27	1.4	179	1
21	5280	24	2.1	167	1
22	5280	23	4.3	207	1
23	5280	25	1.6	218	1
24	5280	25	1.3	195	1
25	5280	27	3.2	206	1
26	5280	27	3.8	150	1
27	5280	25	4.2	228	1
28	5280	27	4.1	230	1
29	5280	28	1.1	184	1
30	5280	27	4	203	1
Detection Percentage: 90 % (>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	6.2	249	1
2	5280	18	7.4	498	1
3	5280	17	9.8	434	1
4	5280	18	9.4	313	1
5	5280	18	7.8	293	1
6	5280	16	6.8	211	1
7	5280	18	9.4	385	1
8	5280	17	7.2	365	1
9	5280	17	6.1	401	1
10	5280	17	9.6	462	1
11	5280	16	8	359	1
12	5280	17	7	397	1
13	5280	17	8.5	213	1
14	5280	17	9.2	446	1
15	5280	16	6.3	228	1
16	5280	17	8.3	466	1
17	5280	16	7.3	344	1
18	5280	18	8.1	391	1
19	5280	18	7.3	456	1
20	5280	17	6.6	461	1
21	5280	17	7.9	439	1
22	5280	18	7.6	281	1
23	5280	16	8.4	287	1
24	5280	17	6.5	310	1
25	5280	17	9.1	354	1
26	5280	17	7.1	205	1
27	5280	16	6.2	378	1
28	5280	17	8.2	460	1
29	5280	17	8.5	435	1
30	5280	17	8	310	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	15	16.9	278	1
2	5280	13	19.9	317	1
3	5280	14	17	219	1
4	5280	16	16	384	1
5	5280	14	12	411	1
6	5280	12	15.3	289	1
7	5280	13	14.6	400	1
8	5280	14	13.5	262	1
9	5280	15	15.2	327	1
10	5280	13	12.4	212	1
11	5280	15	11.6	498	1
12	5280	14	16.5	200	1
13	5280	14	15.2	261	1
14	5280	14	13.4	231	1
15	5280	16	19.5	256	1
16	5280	12	16.1	240	1
17	5280	12	12.6	392	1
18	5280	14	12.5	228	1
19	5280	16	17	354	1
20	5280	13	19.2	303	1
21	5280	14	11.7	263	1
22	5280	14	19.1	246	1
23	5280	12	18.8	309	1
24	5280	13	13.6	444	1
25	5280	15	15.7	338	1
26	5280	16	18.3	495	1
27	5280	13	18.7	233	1
28	5280	13	15.3	210	1
29	5280	14	11.9	392	1
30	5280	14	11.9	250	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	11	96.4			0.058273	1
1	1	13	88.6			0.925063	
2	2	18	69.9	1996		1.511544	
3	2	16	96.3	1016		2.567002	
4	2	15	67.7	1804		3.039441	
5	2	5	90.5	1009		3.90566	
6	2	9	91.6	1462		4.622878	
7	1	7	85.5			5.508993	
8	1	12	71.1			6.342832	
9	2	20	85.4	1856		7.087129	
10	2	19	75.6	1532		7.50736	
11	2	5	81.8	1942		8.928067	
12	2	14	83.2	1851		9.459769	
13	2	10	96.4	1072		9.887165	
14	2	11	67.8	1093		10.920826	
15	2	15	84.7	1610		11.277924	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	57.4			0.041193	1
1	2	15	52.2	1266		1.241476	
2	3	9	96.3	1145	1836	1.676313	
3	3	18	82.9	1842	1763	2.266001	
4	2	14	58.2	1299		2.825964	
5	3	13	82.8	1183	1801	3.332883	
6	2	8	82.3	1926		4.050999	
7	3	13	65.6	1616	1175	4.55054	
8	3	10	84.3	1042	1250	5.248262	
9	1	14	84.1			6.22061	
10	2	5	53.3	1764		6.530374	
11	2	15	91.2	1922		6.966653	
12	2	19	52.3	1290		7.6955	
13	2	9	58.7	1532		8.675572	
14	3	16	83.3	1930	1105	9.141465	
15	2	17	72	1785		9.559595	
16	1	7	98.2			10.200548	
17	2	9	60.2	1089		11.052051	
18	1	19	65.9			11.447495	

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	75.1			0.623947	1
1	1	12	57.6			2.174202	
2	1	17	92.1			2.31284	
3	1	12	71.9			4.130907	
4	3	10	92.8	1676	1681	4.999082	
5	1	19	62.2			5.906126	
6	1	12	92.3			7.455937	
7	1	12	94.9			8.33358	
8	2	12	72.6	1090		8.809871	
9	1	14	64.5			10.431173	
10	2	13	60.6	1299		11.258315	

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	11	84.3			0.24206	1
1	2	8	65.6	1454		0.845912	
2	1	18	76.3			1.222299	
3	2	7	94.8	1077		2.324378	
4	2	6	78.7	1287		2.964188	
5	2	14	86.7	1683		3.439519	
6	1	11	80.3			4.063771	
7	2	12	61.8	1472		4.379696	
8	2	9	88.4	1147		5.287332	
9	2	6	61.9	1303		5.473456	
10	1	18	65.1			6.380223	
11	3	19	98.9	1191	1384	7.087039	
12	1	15	50.8			7.532948	
13	1	12	57.4			8.095601	
14	3	19	66.8	1834	1973	8.921076	
15	2	9	92	1750		9.552592	
16	3	13	56.3	1896	1032	9.817	
17	1	6	61.9			10.531023	
18	2	11	80.5	1042		10.936815	
19	2	17	56.3	1497		11.843826	

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	20	89.1			0.670035	1
1	1	16	57.5			1.346146	
2	3	19	83.9	1218	1398	1.857952	
3	3	11	71.8	1795	1442	2.36318	
4	1	7	81.6			3.190324	
5	1	7	60.8			3.986795	
6	2	12	75.2	1630		4.45122	
7	2	14	80.3	1964		5.486281	
8	2	8	94.4	1550		5.742926	
9	1	17	54.5			6.540286	
10	3	19	56.1	1301	1614	7.519829	
11	2	14	62.1	1165		7.981435	
12	2	7	67.8	1803		8.638793	
13	3	13	61.8	1116	1791	9.409018	
14	1	12	78.5			9.909204	
15	1	19	53			11.056702	
16	2	6	53.5	1141		11.505642	

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	8	66.7	1108	1470	0.175483	1
1	2	18	91.3	1616		2.506909	
2	1	5	67.9			3.784582	
3	3	13	90.1	1408	1369	4.986468	
4	2	9	88	1252		5.504353	
5	2	15	55.3	1394		7.344238	
6	2	12	88.7	1479		8.144083	
7	3	15	86.6	1527	1645	10.153364	
8	3	10	69.3	1352	1374	11.58125	

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	12	55.2	1667		0.085221	1
1	3	10	62.7	1228	1120	1.010484	
2	3	12	54.8	1156	1994	1.501675	
3	2	10	66.4	1941		2.063368	
4	1	17	58.9			2.931446	
5	3	14	61.1	1788	1450	3.747656	
6	2	11	99.6	1855		4.307572	
7	2	6	58.7	1748		4.439342	
8	2	18	79.7	1066		5.545943	
9	2	19	94.4	1498		6.189656	
10	3	18	52.5	1385	1555	6.894683	
11	2	15	97.4	1423		7.386903	
12	2	16	63.5	1072		7.781086	
13	3	17	58.6	1814	1898	8.609601	
14	3	6	78.6	1315	1330	9.439891	
15	3	17	90.4	1315	2000	10.093855	
16	3	18	64.2	1879	1823	10.295579	
17	2	15	57.3	1129		11.224181	
18	2	10	66.5	1362		11.805965	

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	12	93.2	1537		0.564154	1
1	3	9	84.2	1959	1389	2.124377	
2	3	15	94.4	1366	1292	3.228851	
3	2	20	66.9	1970		4.275491	
4	3	15	87.3	1823	1947	5.222265	
5	2	16	58.5	1918		6.502236	
6	2	10	91.3	1704		7.79572	
7	2	8	84.9	1567		8.520653	
8	1	20	89.8			9.77982	
9	1	6	90.9			10.886121	

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	16	82.4	1237		0.084202	1
1	1	17	59.8			0.784097	
2	2	7	55.2	1356		2.159448	
3	2	11	98.6	1122		2.812056	
4	3	20	57.4	1531	1587	3.038578	
5	2	17	55	1957		3.864449	
6	2	15	75.5	1478		4.634394	
7	3	18	50.3	1068	1739	5.710045	
8	2	17	80.9	1306		6.09279	
9	3	10	57.8	1906	1754	7.214073	
10	2	9	71.3	1788		7.631786	
11	3	12	73.7	1275	1822	8.69916	
12	2	9	80	1627		9.6879	
13	3	13	72	1351	1474	9.839565	
14	2	7	70.7	1458		11.094789	
15	1	16	63.3			11.551714	

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	10	56.4	1943		0.702508	1
1	1	13	80.6			1.148627	
2	3	6	93.1	1526	1337	2.59345	
3	2	6	97.6	1247		3.537422	
4	1	11	62.8			4.143205	
5	1	8	71.5			5.457478	
6	2	8	80.9	1735		5.770284	
7	2	18	54.3	1013		7.352754	
8	2	7	50.7	1124		7.685751	
9	1	15	68.1			8.965302	
10	1	10	54.4			9.95286	
11	3	18	92.8	1804	1501	10.250728	
12	2	8	97.3	1989		11.575647	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	51.4	1351		0.321613	1
1	2	7	94.1	1021		2.067955	
2	1	13	55			2.786586	
3	2	9	54.4	1773		4.407512	
4	2	6	92.9	1836		5.677676	
5	3	10	67.2	1888	1324	6.747741	
6	1	19	75.2			8.189975	
7	3	10	74.4	1910	1585	10.624983	
8	1	15	90			11.788578	

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	11	70.8	1560	1599	1.197299	1
1	3	12	74.9	1755	1921	2.42833	
2	1	13	66.8			3.591077	
3	3	17	66.2	1595	1718	5.286091	
4	2	16	52.2	1726		6.386018	
5	3	18	91.2	1033	1798	7.811237	
6	2	8	69.1	1756		9.307724	
7	2	18	80.8	1625		11.497543	

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	87.7			0.069435	1
1	2	11	56	1763		1.149765	
2	2	12	97.3	1105		2.164645	
3	1	9	77.8			2.320184	
4	2	12	71.3	1051		3.421151	
5	2	13	80.8	1472		4.168829	
6	2	9	63	1224		4.729367	
7	2	16	97.3	1294		5.577365	
8	3	14	59.5	1440	1227	6.134072	
9	1	19	92.2			7.462046	
10	3	20	96.4	1944	1418	7.546264	
11	2	18	70.3	1625		8.268693	
12	1	7	76.8			9.086639	
13	2	18	80.9	1834		9.949561	
14	2	5	95.8	1877		10.651084	
15	3	5	52.7	1973	1996	11.304394	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	95.2			0.725886	1
1	2	11	54.5	1542		0.842715	
2	2	16	71.2	1873		2.066848	
3	1	18	54.4			2.463951	
4	2	5	92.9	1154		3.585187	
5	2	12	76.1	1668		4.019883	
6	1	8	81.9			5.145279	
7	1	18	92.1			5.807844	
8	3	18	65.6	1439	1730	6.09144	
9	1	7	51			7.168439	
10	2	19	75.1	1524		7.874964	
11	2	17	61.1	1187		8.700713	
12	3	11	77.2	1609	1353	9.192768	
13	2	14	94.2	1868		10.460697	
14	2	16	56.1	1074		10.555643	
15	1	18	99.1			11.579561	

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	18	94.5	1504	1905	0.889924	1
1	3	12	93.9	1334	1663	2.22054	
2	2	18	72.8	1820		3.550334	
3	2	13	50.5	1278		4.975687	
4	1	6	86.3			5.810871	
5	2	10	80.5	1159		7.904285	
6	3	14	99.5	1905	1182	9.21393	
7	2	8	94.8	1429		9.791397	
8	2	18	61.4	1999		11.866888	

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	20	76.3	1957	1658	0.442745	1
1	1	9	87.6			1.104087	
2	1	13	67.9			1.924192	
3	3	6	81.1	1752	1914	2.810035	
4	2	9	60.3	1382		3.97523	
5	3	20	50.4	1480	1651	4.731984	
6	3	20	75.4	1726	1046	6.425273	
7	2	11	54.6	1119		6.580751	
8	2	7	53	1163		8.303294	
9	1	14	95.3			9.006345	
10	2	20	99.1	1671		9.847323	
11	3	15	91.6	1120	1768	11.042244	
12	2	13	66.1	1936		11.553753	

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	10	56.7	1702	1844	1.242011	1
1	3	9	63.5	1164	1865	1.444253	
2	3	9	89.3	1458	1755	3.266768	
3	3	7	98.4	1693	1282	4.236927	
4	2	11	86	1274		5.801128	
5	3	6	87.4	1780	1237	7.247079	
6	1	6	50.9			9.208774	
7	3	7	83.4	1885	1464	9.578314	
8	3	6	62.9	1659	1772	11.2346	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	86	1683		0.464426	1
1	3	6	84.5	1868	1870	1.461727	
2	3	6	84	1611	1543	2.386056	
3	1	11	73			4.358131	
4	2	19	78.5	1531		4.367802	
5	2	12	81.6	1854		5.76168	
6	2	15	51.3	1621		6.902652	
7	3	7	87.2	1068	1268	8.577415	
8	1	18	73.6			9.478764	
9	2	14	74	1027		10.199357	
10	1	7	59.6			11.073247	

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	89.8	1658		0.170077	1
1	2	17	73.6	1129		1.17224	
2	1	13	99.1			1.426223	
3	3	8	64.1	1904	1279	2.046268	
4	2	5	72.4	1756		3.086143	
5	2	11	95.9	1706		3.70014	
6	3	18	55.8	1077	1834	4.288555	
7	1	8	81.8			4.952178	
8	2	11	64.4	1354		5.954176	
9	2	16	97.8	1017		6.422808	
10	2	16	94.6	1958		7.089464	
11	2	17	63	1153		7.605069	
12	2	18	97.8	1491		8.072328	
13	1	17	63.8			9.108377	
14	2	19	95.8	1852		9.688192	
15	1	13	81.4			10.010919	
16	2	18	51.4	1253		11.142917	
17	1	14	73.4			11.613747	

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	8	66.6	1452		0.664861	1
1	1	19	54.4			0.876509	
2	2	7	73	1272		1.509101	
3	3	20	54.1	1818	1596	2.523194	
4	3	15	54.8	1891	1907	3.417235	
5	3	7	97	1078	1586	3.652925	
6	2	6	56.6	1685		4.258777	
7	3	8	65.9	1935	1913	5.130821	
8	1	8	96.8			5.881597	
9	2	16	70.5	1602		6.606326	
10	2	15	82.4	1582		7.646885	
11	2	7	97.8	1893		8.290617	
12	3	20	89.6	1378	1616	9.154293	
13	1	11	65.3			9.450819	
14	3	19	78.6	1266	1185	10.322491	
15	1	6	81.7			10.910559	
16	2	7	52.3	1726		11.876485	

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	84.2	1530	1758	0.263807	1
1	3	17	87	1709	1977	2.233161	
2	2	12	85.3	1625		3.918896	
3	2	15	95.5	1656		5.231315	
4	2	18	77.1	1589		7.021938	
5	2	13	86.7	1582		8.871897	
6	2	18	97.5	1621		9.49857	
7	2	11	65.3	1640		10.986269	

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	13	76.8	1373	1569	0.283681	1
1	1	18	98.5			2.043609	
2	2	10	71	1146		2.937687	
3	2	19	89.9	1010		4.037193	
4	2	11	75.8	1376		4.773351	
5	2	9	65.8	1948		5.580779	
6	1	9	66.1			6.753922	
7	3	15	77.2	1221	1043	8.218841	
8	3	10	73.8	1516	1591	9.380612	
9	2	8	60.1	1663		9.859876	
10	3	10	93.8	1187	1027	10.940419	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	72	1097	1608	1.095818	1
1	2	13	52.1	1062		1.97642	
2	2	8	71	1571		3.628569	
3	1	8	99			4.284711	
4	2	19	64.8	1006		6.3293	
5	2	10	52.8	1676		6.805608	
6	3	13	58.2	1717	1690	8.738066	
7	2	19	91	1932		9.733447	
8	3	8	54.1	1778	1761	11.049861	

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	18	81			0.719122	1
1	2	8	75	1979		1.81621	
2	1	14	61.2			2.199814	
3	2	8	62.4	1592		3.916912	
4	2	14	85.4	1194		4.911094	
5	3	5	60	1093	1298	6.039925	
6	1	10	94.7			6.722951	
7	1	19	70.6			8.213598	
8	2	17	73.3	1725		8.973554	
9	1	14	95			10.28818	
10	2	7	91.5	1092		11.185417	

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	12	66.4			0.077837	1
1	2	15	99.1	1533		1.082468	
2	2	19	58.6	1072		1.399804	
3	2	14	58.4	1873		1.857086	
4	1	16	77.4			2.40521	
5	3	12	88.9	1012	1607	3.179914	
6	2	13	83.7	1257		3.608409	
7	1	16	61.8			4.773502	
8	2	18	92.4	1600		5.298193	
9	1	17	65.4			5.865849	
10	2	9	66.5	1814		6.060499	
11	3	12	65.3	1682	1984	6.909997	
12	2	18	61.3	1246		7.566739	
13	1	10	72.1			7.976948	
14	1	16	89.1			8.660388	
15	1	19	59.9			9.440106	
16	3	14	64.5	1270	1126	10.074798	
17	2	9	74.2	1285		10.405861	
18	3	15	90.2	1880	1045	11.282679	
19	3	11	56.8	1588	1947	11.816375	

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	9	90.2	1215		0.16734	1
1	3	12	74.4	1778	1377	1.708534	
2	2	19	70.8	1642		2.11009	
3	1	19	63.9			3.654624	
4	1	10	50.1			4.535858	
5	2	7	84.1	1767		5.075035	
6	2	16	79.9	1686		6.961936	
7	1	9	55.6			7.412699	
8	2	12	77.2	1934		8.530231	
9	2	19	56.3	1073		9.18653	
10	2	8	75.8	1439		10.149511	
11	2	7	57.4	1761		11.285816	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	62.5			0.540697	1
1	3	19	59.8	1157	1866	0.947899	
2	2	16	95.6	1116		1.809548	
3	1	18	52.6			2.303485	
4	2	8	96.2	1355		3.026734	
5	2	19	99.2	1118		3.659946	
6	1	13	97.5			4.373648	
7	1	18	53.8			5.000507	
8	2	7	71.7	1837		5.674665	
9	1	12	76.5			6.717753	
10	2	17	63.1	1054		7.065215	
11	2	13	86.4	1624		7.902266	
12	2	9	98.5	1619		8.984967	
13	3	16	77.4	1036	1063	9.454805	
14	2	19	90.8	1644		10.367705	
15	2	16	61.9	1394		10.847177	
16	1	11	96.7			11.598768	

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	18	67.1	1047		0.691981	1
1	1	18	52.6			1.093179	
2	1	14	82.9			2.163955	
3	1	11	69.8			2.736009	
4	2	10	80.8	1286		3.494629	
5	1	7	67.7			4.027536	
6	3	19	86.8	1148	1903	5.057437	
7	2	17	57.8	1886		5.830596	
8	1	18	51.1			6.632809	
9	2	12	90.3	1286		7.627716	
10	3	17	66.6	1485	1680	8.760981	
11	2	8	68.2	1123		8.863323	
12	2	6	68.8	1709		9.916818	
13	2	12	52.9	1041		11.19456	
14	2	20	97.4	1860		11.803712	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	63.2	1170		0.130261	1
1	2	17	82.2	1886		1.772365	
2	2	7	78.8	1395		2.713143	
3	2	8	95.8	1703		3.30506	
4	2	20	81.7	1458		4.350513	
5	1	17	57.9			5.390985	
6	2	20	64.4	1623		5.98465	
7	2	19	60	1146		6.843428	
8	2	7	79	1090		8.002286	
9	1	9	62.9			8.987613	
10	2	11	68.6	1221		9.4998	
11	2	8	52.4	1255		10.57862	
12	1	13	71.2			11.863039	

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	65.3	1284		0.089837	1
1	2	5	96.1	1457		1.122029	
2	2	13	88.3	1048		1.648457	
3	1	18	81.4			2.550369	
4	2	6	93.5	1831		2.970557	
5	1	13	66.6			3.540415	
6	2	9	99.7	1598		4.657711	
7	1	12	58.5			5.035875	
8	2	6	93.1	1159		5.537674	
9	2	13	65	1721		6.335068	
10	2	9	74.5	1608		6.753594	
11	3	19	63.8	1102	1675	7.701975	
12	2	10	95.7	1052		8.599476	
13	1	16	85.3			9.325235	
14	2	20	66.4	1857		9.419504	
15	2	19	76.2	1704		10.070898	
16	1	19	79			10.778191	
17	2	5	84.4	1086		11.360663	

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	5280.0, 5612.0, 5618.0, 5316.0, 5279.0, 5471.0, 5308.0, 5381.0, 5631.0, 5376.0, 5311.0, 5333.0, 5303.0, 5538.0, 5599.0, 5407.0, 5657.0, 5604.0, 5396.0, 5681.0, 5709.0, 5664.0, 5575.0, 5477.0, 5684.0, 5261.0, 5522.0, 5672.0, 5492.0, 5613.0, 5573.0, 5607.0, 5503.0, 5374.0, 5268.0, 5582.0, 5712.0, 5288.0, 5490.0, 5682.0, 5724.0, 5435.0, 5399.0, 5611.0, 5402.0, 5606.0, 5364.0, 5595.0, 5361.0, 5676.0, 5299.0, 5386.0, 5359.0, 5653.0, 5397.0, 5566.0, 5338.0, 5440.0, 5638.0, 5385.0, 5470.0, 5510.0, 5588.0, 5322.0, 5427.0, 5341.0, 5343.0, 5702.0, 5450.0, 5371.0, 5559.0, 5685.0, 5540.0, 5515.0, 5480.0, 5715.0, 5693.0, 5372.0, 5403.0, 5483.0, 5267.0, 5276.0, 5720.0, 5391.0, 5718.0, 5424.0, 5495.0, 5514.0, 5415.0, 5379.0, 5422.0, 5462.0, 5683.0, 5506.0, 5384.0, 5649.0, 5717.0, 5342.0, 5287.0, 5710.0 (number of hits: 6)
2	5280	9	1	333	1	5329.0, 5653.0, 5671.0, 5356.0, 5531.0, 5699.0, 5587.0, 5528.0, 5573.0, 5495.0, 5476.0, 5332.0, 5293.0, 5363.0, 5618.0, 5273.0, 5625.0, 5426.0, 5643.0, 5494.0, 5549.0, 5659.0, 5572.0, 5693.0, 5611.0, 5656.0, 5375.0, 5392.0, 5580.0, 5479.0, 5326.0, 5251.0, 5448.0, 5441.0, 5416.0, 5713.0, 5279.0, 5716.0, 5489.0, 5460.0, 5418.0, 5668.0, 5456.0, 5415.0, 5262.0, 5515.0, 5499.0, 5333.0, 5303.0, 5278.0, 5464.0, 5612.0, 5430.0, 5275.0, 5575.0, 5714.0, 5545.0, 5281.0, 5724.0, 5535.0, 5703.0, 5282.0, 5396.0, 5287.0, 5596.0, 5602.0, 5296.0, 5317.0, 5417.0, 5350.0, 5669.0, 5652.0, 5563.0, 5506.0, 5707.0, 5403.0, 5478.0, 5682.0, 5491.0, 5589.0, 5686.0, 5286.0, 5370.0, 5624.0, 5414.0, 5544.0, 5411.0, 5360.0, 5290.0, 5651.0, 5372.0, 5532.0, 5454.0, 5325.0, 5529.0, 5284.0, 5488.0, 5684.0, 5406.0, 5323.0 (number of hits: 6)
3	5280	9	1	333	1	5485.0, 5290.0, 5423.0, 5709.0, 5523.0, 5348.0, 5406.0, 5396.0, 5412.0, 5566.0, 5530.0, 5494.0, 5378.0, 5546.0, 5572.0, 5353.0, 5564.0, 5264.0, 5643.0, 5460.0, 5625.0, 5719.0, 5269.0, 5302.0, 5544.0, 5280.0, 5455.0, 5702.0, 5659.0, 5684.0, 5256.0, 5631.0, 5313.0, 5718.0, 5492.0, 5434.0, 5376.0, 5607.0, 5543.0, 5711.0, 5446.0, 5420.0, 5526.0, 5528.0, 5276.0, 5498.0, 5404.0, 5320.0, 5433.0, 5644.0, 5461.0, 5470.0, 5449.0, 5254.0, 5383.0, 5443.0, 5714.0, 5555.0, 5587.0, 5497.0,

						5427.0, 5583.0, 5472.0, 5617.0, 5584.0, 5301.0, 5352.0, 5325.0, 5716.0, 5609.0, 5271.0, 5615.0, 5296.0, 5389.0, 5580.0, 5633.0, 5468.0, 5665.0, 5439.0, 5517.0, 5326.0, 5314.0, 5647.0, 5589.0, 5419.0, 5416.0, 5694.0, 5291.0, 5278.0, 5686.0, 5311.0, 5375.0, 5366.0, 5488.0, 5595.0, 5372.0, 5445.0, 5534.0, 5527.0, 5696.0 (number of hits: 8)
4	5280	9	1	333	1	5532.0, 5583.0, 5603.0, 5605.0, 5268.0, 5592.0, 5529.0, 5325.0, 5456.0, 5541.0, 5443.0, 5671.0, 5617.0, 5710.0, 5346.0, 5472.0, 5648.0, 5476.0, 5638.0, 5311.0, 5450.0, 5415.0, 5631.0, 5304.0, 5705.0, 5500.0, 5664.0, 5412.0, 5643.0, 5509.0, 5507.0, 5251.0, 5547.0, 5485.0, 5384.0, 5351.0, 5422.0, 5663.0, 5381.0, 5260.0, 5326.0, 5645.0, 5378.0, 5266.0, 5608.0, 5338.0, 5611.0, 5459.0, 5478.0, 5526.0, 5697.0, 5289.0, 5330.0, 5666.0, 5567.0, 5418.0, 5633.0, 5551.0, 5446.0, 5408.0, 5612.0, 5582.0, 5453.0, 5481.0, 5401.0, 5627.0, 5327.0, 5542.0, 5417.0, 5506.0, 5265.0, 5604.0, 5484.0, 5642.0, 5628.0, 5581.0, 5703.0, 5700.0, 5357.0, 5585.0, 5431.0, 5426.0, 5396.0, 5359.0, 5382.0, 5524.0, 5595.0, 5355.0, 5270.0, 5635.0, 5316.0, 5626.0, 5286.0, 5362.0, 5253.0, 5385.0, 5718.0, 5533.0, 5406.0, 5479.0 (number of hits: 4)
5	5280	9	1	333	1	5370.0, 5342.0, 5409.0, 5545.0, 5649.0, 5564.0, 5268.0, 5257.0, 5639.0, 5296.0, 5620.0, 5635.0, 5428.0, 5356.0, 5340.0, 5373.0, 5391.0, 5513.0, 5680.0, 5606.0, 5510.0, 5291.0, 5336.0, 5434.0, 5685.0, 5478.0, 5444.0, 5586.0, 5555.0, 5305.0, 5410.0, 5260.0, 5312.0, 5285.0, 5540.0, 5397.0, 5720.0, 5517.0, 5449.0, 5310.0, 5278.0, 5270.0, 5629.0, 5701.0, 5467.0, 5581.0, 5554.0, 5592.0, 5435.0, 5506.0, 5563.0, 5381.0, 5271.0, 5433.0, 5341.0, 5474.0, 5628.0, 5589.0, 5559.0, 5311.0, 5502.0, 5264.0, 5670.0, 5459.0, 5610.0, 5503.0, 5552.0, 5472.0, 5416.0, 5430.0, 5321.0, 5507.0, 5688.0, 5363.0, 5454.0, 5683.0, 5579.0, 5423.0, 5263.0, 5460.0, 5562.0, 5575.0, 5368.0, 5377.0, 5530.0, 5288.0, 5354.0, 5542.0, 5432.0, 5339.0, 5290.0, 5379.0, 5638.0, 5712.0, 5251.0, 5365.0, 5382.0, 5702.0, 5436.0, 5616.0 (number of hits: 9)
6	5280	9	1	333	1	5684.0, 5681.0, 5299.0, 5577.0, 5409.0, 5667.0, 5529.0, 5413.0, 5633.0, 5437.0, 5661.0, 5494.0, 5549.0, 5690.0, 5610.0, 5319.0, 5306.0, 5665.0, 5541.0, 5680.0, 5574.0, 5533.0, 5279.0, 5482.0, 5486.0, 5263.0, 5613.0, 5609.0, 5451.0, 5362.0, 5580.0, 5379.0, 5446.0, 5371.0, 5493.0, 5634.0, 5518.0, 5679.0, 5281.0, 5363.0, 5511.0, 5372.0, 5355.0, 5338.0, 5476.0

						5632.0, 5592.0, 5469.0, 5433.0, 5691.0, 5719.0, 5280.0, 5260.0, 5334.0, 5421.0, 5638.0, 5655.0, 5605.0, 5472.0, 5600.0, 5639.0, 5400.0, 5629.0, 5462.0, 5671.0, 5716.0, 5271.0, 5261.0, 5430.0, 5467.0, 5402.0, 5654.0, 5422.0, 5538.0, 5454.0, 5620.0, 5656.0, 5490.0, 5310.0, 5285.0, 5618.0, 5552.0, 5560.0, 5390.0, 5300.0, 5315.0, 5358.0, 5652.0, 5483.0, 5582.0, 5686.0, 5710.0, 5608.0, 5688.0, 5707.0, 5673.0, 5503.0, 5677.0, 5616.0, 5519.0 (number of hits: 5)
7	5280	9	1	333	1	5270.0, 5659.0, 5591.0, 5694.0, 5696.0, 5434.0, 5457.0, 5404.0, 5318.0, 5355.0, 5460.0, 5330.0, 5493.0, 5658.0, 5286.0, 5427.0, 5492.0, 5440.0, 5548.0, 5627.0, 5310.0, 5395.0, 5723.0, 5293.0, 5606.0, 5586.0, 5528.0, 5702.0, 5721.0, 5272.0, 5405.0, 5358.0, 5441.0, 5389.0, 5417.0, 5544.0, 5598.0, 5282.0, 5711.0, 5296.0, 5671.0, 5442.0, 5518.0, 5605.0, 5652.0, 5512.0, 5556.0, 5533.0, 5393.0, 5357.0, 5328.0, 5500.0, 5409.0, 5366.0, 5661.0, 5670.0, 5454.0, 5692.0, 5321.0, 5354.0, 5301.0, 5718.0, 5686.0, 5660.0, 5327.0, 5281.0, 5490.0, 5471.0, 5642.0, 5498.0, 5716.0, 5482.0, 5683.0, 5362.0, 5621.0, 5443.0, 5312.0, 5379.0, 5511.0, 5665.0, 5558.0, 5699.0, 5516.0, 5261.0, 5343.0, 5340.0, 5373.0, 5595.0, 5582.0, 5577.0, 5631.0, 5503.0, 5633.0, 5654.0, 5274.0, 5413.0, 5632.0, 5311.0, 5402.0, 5415.0 (number of hits: 7)
8	5280	9	1	333	1	5364.0, 5468.0, 5327.0, 5317.0, 5600.0, 5549.0, 5457.0, 5267.0, 5674.0, 5445.0, 5336.0, 5675.0, 5304.0, 5692.0, 5660.0, 5574.0, 5484.0, 5661.0, 5302.0, 5332.0, 5588.0, 5586.0, 5615.0, 5435.0, 5619.0, 5284.0, 5382.0, 5386.0, 5591.0, 5490.0, 5546.0, 5710.0, 5564.0, 5536.0, 5532.0, 5422.0, 5449.0, 5362.0, 5561.0, 5366.0, 5409.0, 5397.0, 5717.0, 5293.0, 5567.0, 5384.0, 5321.0, 5486.0, 5385.0, 5594.0, 5507.0, 5572.0, 5681.0, 5334.0, 5543.0, 5610.0, 5691.0, 5307.0, 5584.0, 5537.0, 5593.0, 5426.0, 5499.0, 5282.0, 5668.0, 5538.0, 5672.0, 5688.0, 5522.0, 5684.0, 5626.0, 5440.0, 5722.0, 5404.0, 5434.0, 5460.0, 5648.0, 5339.0, 5373.0, 5621.0, 5461.0, 5658.0, 5712.0, 5559.0, 5462.0, 5494.0, 5471.0, 5662.0, 5322.0, 5360.0, 5513.0, 5631.0, 5372.0, 5521.0, 5391.0, 5290.0, 5407.0, 5257.0, 5714.0, 5458.0 (number of hits: 5)
9	5280	9	1	333	1	5309.0, 5306.0, 5668.0, 5292.0, 5544.0, 5579.0, 5559.0, 5577.0, 5589.0, 5268.0, 5341.0, 5469.0, 5319.0, 5692.0, 5482.0, 5420.0, 5467.0, 5279.0, 5418.0, 5695.0, 5322.0, 5702.0, 5520.0, 5301.0, 5719.0, 5612.0, 5388.0, 5389.0, 5522.0, 5362.0,

						5648.0, 5298.0, 5489.0, 5315.0, 5260.0, 5376.0, 5250.0, 5604.0, 5345.0, 5256.0, 5517.0, 5468.0, 5383.0, 5600.0, 5673.0, 5409.0, 5272.0, 5253.0, 5308.0, 5550.0, 5410.0, 5428.0, 5427.0, 5291.0, 5277.0, 5694.0, 5251.0, 5644.0, 5372.0, 5271.0, 5446.0, 5448.0, 5419.0, 5633.0, 5436.0, 5690.0, 5472.0, 5564.0, 5535.0, 5650.0, 5392.0, 5483.0, 5371.0, 5687.0, 5543.0, 5264.0, 5422.0, 5493.0, 5634.0, 5458.0, 5375.0, 5638.0, 5374.0, 5552.0, 5361.0, 5280.0, 5484.0, 5501.0, 5625.0, 5713.0, 5316.0, 5287.0, 5288.0, 5456.0, 5265.0, 5680.0, 5677.0, 5714.0, 5617.0, 5546.0 (number of hits: 9)
10	5280	9	1	333	1	5519.0, 5283.0, 5415.0, 5404.0, 5380.0, 5700.0, 5252.0, 5389.0, 5265.0, 5603.0, 5522.0, 5421.0, 5620.0, 5492.0, 5323.0, 5293.0, 5339.0, 5466.0, 5308.0, 5433.0, 5452.0, 5287.0, 5595.0, 5626.0, 5377.0, 5584.0, 5381.0, 5367.0, 5360.0, 5383.0, 5350.0, 5638.0, 5680.0, 5373.0, 5629.0, 5315.0, 5554.0, 5664.0, 5532.0, 5647.0, 5693.0, 5607.0, 5254.0, 5275.0, 5398.0, 5394.0, 5285.0, 5713.0, 5318.0, 5703.0, 5580.0, 5393.0, 5291.0, 5529.0, 5348.0, 5425.0, 5489.0, 5447.0, 5411.0, 5689.0, 5612.0, 5326.0, 5437.0, 5442.0, 5445.0, 5493.0, 5476.0, 5567.0, 5317.0, 5618.0, 5686.0, 5314.0, 5477.0, 5325.0, 5667.0, 5526.0, 5640.0, 5549.0, 5329.0, 5671.0, 5657.0, 5430.0, 5528.0, 5555.0, 5511.0, 5264.0, 5470.0, 5431.0, 5660.0, 5345.0, 5347.0, 5397.0, 5590.0, 5400.0, 5403.0, 5453.0, 5456.0, 5327.0, 5307.0, 5409.0 (number of hits: 7)
11	5280	9	1	333	1	5332.0, 5345.0, 5661.0, 5318.0, 5635.0, 5645.0, 5642.0, 5353.0, 5600.0, 5611.0, 5715.0, 5546.0, 5316.0, 5660.0, 5258.0, 5392.0, 5588.0, 5359.0, 5401.0, 5371.0, 5587.0, 5663.0, 5405.0, 5479.0, 5614.0, 5714.0, 5536.0, 5721.0, 5662.0, 5659.0, 5302.0, 5475.0, 5680.0, 5577.0, 5695.0, 5260.0, 5615.0, 5279.0, 5265.0, 5565.0, 5489.0, 5561.0, 5378.0, 5297.0, 5707.0, 5467.0, 5641.0, 5264.0, 5369.0, 5518.0, 5636.0, 5648.0, 5325.0, 5379.0, 5362.0, 5311.0, 5461.0, 5537.0, 5263.0, 5550.0, 5445.0, 5691.0, 5711.0, 5511.0, 5669.0, 5712.0, 5634.0, 5618.0, 5464.0, 5436.0, 5398.0, 5393.0, 5313.0, 5708.0, 5667.0, 5344.0, 5473.0, 5701.0, 5621.0, 5301.0, 5450.0, 5510.0, 5495.0, 5509.0, 5309.0, 5594.0, 5411.0, 5564.0, 5543.0, 5710.0, 5666.0, 5559.0, 5507.0, 5418.0, 5322.0, 5548.0, 5459.0, 5449.0, 5270.0, 5336.0 (number of hits: 6)
12	5280	9	1	333	1	5311.0, 5251.0, 5451.0, 5647.0, 5587.0, 5563.0, 5519.0, 5690.0, 5420.0, 5709.0, 5378.0, 5513.0, 5539.0, 5670.0, 5372.0,

						5270.0, 5549.0, 5320.0, 5442.0, 5646.0, 5484.0, 5645.0, 5376.0, 5633.0, 5679.0, 5676.0, 5335.0, 5467.0, 5662.0, 5294.0, 5337.0, 5397.0, 5266.0, 5656.0, 5557.0, 5550.0, 5255.0, 5384.0, 5433.0, 5688.0, 5314.0, 5704.0, 5667.0, 5485.0, 5300.0, 5718.0, 5298.0, 5497.0, 5717.0, 5600.0, 5394.0, 5570.0, 5627.0, 5490.0, 5608.0, 5285.0, 5427.0, 5474.0, 5434.0, 5496.0, 5315.0, 5340.0, 5483.0, 5491.0, 5259.0, 5548.0, 5580.0, 5672.0, 5596.0, 5365.0, 5441.0, 5339.0, 5349.0, 5287.0, 5533.0, 5407.0, 5444.0, 5671.0, 5286.0, 5347.0, 5331.0, 5406.0, 5466.0, 5706.0, 5594.0, 5660.0, 5708.0, 5263.0, 5269.0, 5313.0, 5502.0, 5644.0, 5387.0, 5493.0, 5531.0, 5716.0, 5574.0, 5544.0, 5499.0, 5413.0 (number of hits: 9)
13	5280	9	1	333	1	5311.0, 5579.0, 5625.0, 5343.0, 5250.0, 5419.0, 5504.0, 5508.0, 5269.0, 5445.0, 5633.0, 5649.0, 5327.0, 5293.0, 5454.0, 5531.0, 5378.0, 5586.0, 5551.0, 5482.0, 5556.0, 5428.0, 5583.0, 5512.0, 5326.0, 5304.0, 5373.0, 5432.0, 5395.0, 5341.0, 5673.0, 5319.0, 5634.0, 5357.0, 5322.0, 5386.0, 5479.0, 5329.0, 5381.0, 5391.0, 5585.0, 5568.0, 5659.0, 5460.0, 5679.0, 5609.0, 5496.0, 5313.0, 5614.0, 5541.0, 5590.0, 5385.0, 5536.0, 5674.0, 5682.0, 5270.0, 5602.0, 5616.0, 5408.0, 5285.0, 5469.0, 5645.0, 5474.0, 5266.0, 5306.0, 5687.0, 5425.0, 5477.0, 5622.0, 5603.0, 5501.0, 5405.0, 5465.0, 5337.0, 5392.0, 5647.0, 5401.0, 5615.0, 5637.0, 5630.0, 5291.0, 5662.0, 5611.0, 5593.0, 5584.0, 5680.0, 5390.0, 5516.0, 5707.0, 5719.0, 5435.0, 5658.0, 5608.0, 5720.0, 5646.0, 5510.0, 5617.0, 5330.0, 5606.0, 5356.0 (number of hits: 7)
14	5280	9	1	333	1	5667.0, 5691.0, 5445.0, 5661.0, 5624.0, 5628.0, 5383.0, 5489.0, 5260.0, 5374.0, 5346.0, 5400.0, 5342.0, 5324.0, 5570.0, 5464.0, 5407.0, 5493.0, 5517.0, 5693.0, 5444.0, 5592.0, 5541.0, 5586.0, 5522.0, 5439.0, 5642.0, 5326.0, 5290.0, 5471.0, 5603.0, 5540.0, 5363.0, 5455.0, 5452.0, 5318.0, 5677.0, 5366.0, 5685.0, 5564.0, 5254.0, 5265.0, 5442.0, 5364.0, 5434.0, 5687.0, 5702.0, 5679.0, 5480.0, 5658.0, 5266.0, 5635.0, 5355.0, 5633.0, 5391.0, 5501.0, 5639.0, 5459.0, 5466.0, 5636.0, 5252.0, 5524.0, 5325.0, 5476.0, 5649.0, 5409.0, 5506.0, 5470.0, 5555.0, 5690.0, 5351.0, 5302.0, 5430.0, 5425.0, 5507.0, 5330.0, 5288.0, 5595.0, 5581.0, 5303.0, 5551.0, 5608.0, 5361.0, 5523.0, 5272.0, 5511.0, 5345.0, 5640.0, 5512.0, 5520.0, 5510.0, 5707.0, 5593.0, 5629.0, 5473.0, 5490.0, 5348.0, 5285.0, 5365.0, 5627.0 (number of hits: 5)

15	5280	9	1	333	1	5276.0, 5347.0, 5309.0, 5280.0, 5591.0, 5482.0, 5589.0, 5324.0, 5433.0, 5270.0, 5266.0, 5333.0, 5511.0, 5515.0, 5413.0, 5395.0, 5296.0, 5676.0, 5639.0, 5716.0, 5535.0, 5327.0, 5351.0, 5633.0, 5722.0, 5455.0, 5559.0, 5423.0, 5464.0, 5458.0, 5715.0, 5700.0, 5564.0, 5609.0, 5627.0, 5516.0, 5624.0, 5326.0, 5536.0, 5592.0, 5496.0, 5328.0, 5656.0, 5469.0, 5389.0, 5618.0, 5445.0, 5671.0, 5500.0, 5563.0, 5450.0, 5335.0, 5570.0, 5401.0, 5308.0, 5644.0, 5662.0, 5670.0, 5485.0, 5371.0, 5290.0, 5578.0, 5723.0, 5315.0, 5613.0, 5574.0, 5272.0, 5675.0, 5719.0, 5393.0, 5643.0, 5645.0, 5285.0, 5679.0, 5677.0, 5528.0, 5603.0, 5498.0, 5588.0, 5420.0, 5411.0, 5663.0, 5251.0, 5305.0, 5295.0, 5626.0, 5680.0, 5298.0, 5422.0, 5376.0, 5520.0, 5525.0, 5519.0, 5355.0, 5483.0, 5590.0, 5260.0, 5533.0, 5505.0, 5400.0 (number of hits: 8)
16	5280	9	1	333	1	5670.0, 5330.0, 5429.0, 5588.0, 5539.0, 5460.0, 5311.0, 5427.0, 5514.0, 5531.0, 5649.0, 5489.0, 5257.0, 5608.0, 5561.0, 5512.0, 5572.0, 5318.0, 5660.0, 5722.0, 5591.0, 5341.0, 5703.0, 5290.0, 5306.0, 5366.0, 5348.0, 5424.0, 5412.0, 5523.0, 5260.0, 5385.0, 5679.0, 5345.0, 5446.0, 5719.0, 5720.0, 5256.0, 5291.0, 5710.0, 5285.0, 5376.0, 5356.0, 5441.0, 5360.0, 5614.0, 5263.0, 5453.0, 5553.0, 5590.0, 5527.0, 5389.0, 5481.0, 5691.0, 5545.0, 5575.0, 5535.0, 5405.0, 5487.0, 5320.0, 5298.0, 5557.0, 5594.0, 5716.0, 5343.0, 5504.0, 5319.0, 5415.0, 5546.0, 5693.0, 5367.0, 5384.0, 5661.0, 5350.0, 5339.0, 5383.0, 5266.0, 5377.0, 5252.0, 5254.0, 5284.0, 5692.0, 5250.0, 5392.0, 5396.0, 5536.0, 5500.0, 5567.0, 5293.0, 5435.0, 5550.0, 5584.0, 5328.0, 5400.0, 5596.0, 5616.0, 5563.0, 5609.0, 5558.0, 5521.0 (number of hits: 7)
17	5280	9	1	333	1	5346.0, 5497.0, 5423.0, 5694.0, 5288.0, 5312.0, 5714.0, 5428.0, 5709.0, 5402.0, 5447.0, 5530.0, 5347.0, 5354.0, 5302.0, 5614.0, 5542.0, 5374.0, 5450.0, 5498.0, 5672.0, 5445.0, 5350.0, 5509.0, 5294.0, 5454.0, 5469.0, 5258.0, 5660.0, 5385.0, 5685.0, 5465.0, 5527.0, 5535.0, 5321.0, 5716.0, 5391.0, 5377.0, 5290.0, 5529.0, 5422.0, 5306.0, 5464.0, 5581.0, 5480.0, 5251.0, 5481.0, 5297.0, 5254.0, 5386.0, 5392.0, 5659.0, 5255.0, 5503.0, 5689.0, 5557.0, 5608.0, 5587.0, 5334.0, 5563.0, 5568.0, 5323.0, 5417.0, 5381.0, 5378.0, 5495.0, 5478.0, 5299.0, 5275.0, 5656.0, 5487.0, 5690.0, 5362.0, 5697.0, 5305.0, 5592.0, 5646.0, 5419.0, 5460.0, 5705.0, 5409.0, 5311.0, 5410.0, 5276.0, 5287.0, 5516.0, 5543.0, 5588.0, 5565.0, 5719.0,

						5502.0, 5537.0, 5651.0, 5301.0, 5647.0, 5580.0, 5668.0, 5713.0, 5389.0, 5273.0 (number of hits: 12)
18	5280	9	1	333	1	5488.0, 5547.0, 5387.0, 5316.0, 5613.0, 5681.0, 5452.0, 5274.0, 5275.0, 5429.0, 5388.0, 5500.0, 5550.0, 5598.0, 5440.0, 5390.0, 5347.0, 5535.0, 5533.0, 5267.0, 5317.0, 5289.0, 5336.0, 5625.0, 5371.0, 5722.0, 5421.0, 5563.0, 5496.0, 5392.0, 5385.0, 5402.0, 5545.0, 5582.0, 5346.0, 5657.0, 5302.0, 5342.0, 5501.0, 5477.0, 5595.0, 5252.0, 5525.0, 5590.0, 5542.0, 5654.0, 5379.0, 5680.0, 5377.0, 5663.0, 5601.0, 5721.0, 5708.0, 5258.0, 5503.0, 5381.0, 5278.0, 5580.0, 5526.0, 5410.0, 5285.0, 5293.0, 5719.0, 5684.0, 5375.0, 5570.0, 5295.0, 5607.0, 5378.0, 5514.0, 5382.0, 5703.0, 5458.0, 5483.0, 5326.0, 5524.0, 5482.0, 5471.0, 5561.0, 5362.0, 5424.0, 5697.0, 5451.0, 5474.0, 5585.0, 5332.0, 5282.0, 5485.0, 5495.0, 5610.0, 5389.0, 5553.0, 5319.0, 5294.0, 5711.0, 5576.0, 5521.0, 5250.0, 5492.0, 5717.0 (number of hits: 6)
19	5280	9	1	333	1	5724.0, 5374.0, 5438.0, 5313.0, 5557.0, 5380.0, 5420.0, 5619.0, 5604.0, 5704.0, 5480.0, 5507.0, 5667.0, 5596.0, 5686.0, 5612.0, 5378.0, 5375.0, 5349.0, 5358.0, 5319.0, 5343.0, 5460.0, 5273.0, 5433.0, 5405.0, 5445.0, 5275.0, 5283.0, 5256.0, 5521.0, 5711.0, 5500.0, 5476.0, 5599.0, 5544.0, 5485.0, 5528.0, 5328.0, 5279.0, 5267.0, 5451.0, 5280.0, 5535.0, 5435.0, 5295.0, 5648.0, 5519.0, 5650.0, 5284.0, 5458.0, 5509.0, 5462.0, 5680.0, 5402.0, 5556.0, 5258.0, 5522.0, 5404.0, 5626.0, 5669.0, 5424.0, 5540.0, 5470.0, 5403.0, 5270.0, 5663.0, 5329.0, 5259.0, 5436.0, 5579.0, 5477.0, 5303.0, 5644.0, 5584.0, 5428.0, 5539.0, 5406.0, 5699.0, 5580.0, 5365.0, 5253.0, 5251.0, 5643.0, 5722.0, 5652.0, 5549.0, 5671.0, 5583.0, 5610.0, 5700.0, 5564.0, 5442.0, 5350.0, 5475.0, 5392.0, 5582.0, 5307.0, 5486.0, 5701.0 (number of hits: 4)
20	5280	9	1	333	1	5251.0, 5656.0, 5492.0, 5361.0, 5645.0, 5678.0, 5665.0, 5312.0, 5676.0, 5334.0, 5255.0, 5662.0, 5395.0, 5520.0, 5652.0, 5612.0, 5565.0, 5597.0, 5635.0, 5385.0, 5383.0, 5357.0, 5627.0, 5472.0, 5525.0, 5546.0, 5464.0, 5432.0, 5547.0, 5399.0, 5303.0, 5526.0, 5681.0, 5299.0, 5296.0, 5478.0, 5549.0, 5499.0, 5409.0, 5326.0, 5721.0, 5466.0, 5564.0, 5393.0, 5268.0, 5581.0, 5413.0, 5654.0, 5470.0, 5514.0, 5669.0, 5259.0, 5710.0, 5445.0, 5386.0, 5614.0, 5310.0, 5335.0, 5720.0, 5628.0, 5494.0, 5350.0, 5670.0, 5415.0, 5407.0, 5497.0, 5373.0, 5252.0, 5501.0, 5317.0, 5569.0, 5639.0, 5322.0, 5428.0, 5578.0,

						5609.0, 5468.0, 5253.0, 5346.0, 5684.0, 5457.0, 5355.0, 5410.0, 5590.0, 5419.0, 5345.0, 5329.0, 5706.0, 5707.0, 5442.0, 5338.0, 5611.0, 5621.0, 5658.0, 5344.0, 5443.0, 5577.0, 5591.0, 5515.0, 5463.0 (number of hits: 5)
21	5280	9	1	333	1	5441.0, 5671.0, 5653.0, 5721.0, 5439.0, 5401.0, 5405.0, 5655.0, 5345.0, 5399.0, 5492.0, 5709.0, 5335.0, 5528.0, 5449.0, 5688.0, 5423.0, 5681.0, 5554.0, 5255.0, 5677.0, 5463.0, 5516.0, 5425.0, 5567.0, 5566.0, 5430.0, 5403.0, 5649.0, 5679.0, 5557.0, 5351.0, 5486.0, 5596.0, 5461.0, 5574.0, 5694.0, 5365.0, 5497.0, 5637.0, 5561.0, 5275.0, 5715.0, 5589.0, 5676.0, 5606.0, 5371.0, 5612.0, 5379.0, 5479.0, 5464.0, 5613.0, 5333.0, 5620.0, 5428.0, 5583.0, 5269.0, 5352.0, 5489.0, 5354.0, 5306.0, 5697.0, 5523.0, 5536.0, 5495.0, 5427.0, 5513.0, 5700.0, 5271.0, 5515.0, 5634.0, 5387.0, 5453.0, 5348.0, 5388.0, 5573.0, 5298.0, 5276.0, 5706.0, 5316.0, 5280.0, 5290.0, 5502.0, 5435.0, 5426.0, 5535.0, 5373.0, 5635.0, 5251.0, 5327.0, 5494.0, 5454.0, 5580.0, 5670.0, 5695.0, 5586.0, 5657.0, 5470.0, 5341.0, 5511.0 (number of hits: 3)
22	5280	9	1	333	1	5622.0, 5438.0, 5635.0, 5666.0, 5373.0, 5588.0, 5271.0, 5580.0, 5340.0, 5436.0, 5511.0, 5706.0, 5469.0, 5422.0, 5293.0, 5646.0, 5679.0, 5378.0, 5690.0, 5353.0, 5649.0, 5310.0, 5411.0, 5302.0, 5626.0, 5705.0, 5336.0, 5579.0, 5554.0, 5330.0, 5441.0, 5498.0, 5466.0, 5628.0, 5486.0, 5510.0, 5573.0, 5698.0, 5530.0, 5548.0, 5463.0, 5348.0, 5339.0, 5477.0, 5421.0, 5650.0, 5390.0, 5307.0, 5545.0, 5722.0, 5303.0, 5678.0, 5483.0, 5366.0, 5713.0, 5443.0, 5278.0, 5700.0, 5453.0, 5697.0, 5399.0, 5471.0, 5350.0, 5254.0, 5396.0, 5294.0, 5675.0, 5560.0, 5629.0, 5501.0, 5696.0, 5459.0, 5601.0, 5539.0, 5687.0, 5533.0, 5317.0, 5693.0, 5662.0, 5435.0, 5381.0, 5391.0, 5652.0, 5589.0, 5723.0, 5620.0, 5570.0, 5419.0, 5671.0, 5558.0, 5407.0, 5434.0, 5408.0, 5514.0, 5319.0, 5586.0, 5488.0, 5295.0, 5520.0, 5334.0 (number of hits: 7)
23	5280	9	1	333	1	5513.0, 5698.0, 5541.0, 5640.0, 5445.0, 5651.0, 5501.0, 5712.0, 5627.0, 5377.0, 5256.0, 5708.0, 5271.0, 5290.0, 5660.0, 5437.0, 5367.0, 5316.0, 5380.0, 5546.0, 5293.0, 5275.0, 5381.0, 5429.0, 5396.0, 5593.0, 5443.0, 5468.0, 5571.0, 5502.0, 5398.0, 5611.0, 5444.0, 5303.0, 5576.0, 5494.0, 5337.0, 5475.0, 5504.0, 5717.0, 5400.0, 5492.0, 5654.0, 5338.0, 5505.0, 5702.0, 5634.0, 5695.0, 5302.0, 5311.0, 5265.0, 5355.0, 5487.0, 5301.0, 5498.0, 5426.0, 5605.0, 5683.0, 5309.0, 5709.0,

						5626.0, 5307.0, 5628.0, 5436.0, 5339.0, 5621.0, 5573.0, 5415.0, 5402.0, 5347.0, 5439.0, 5466.0, 5416.0, 5399.0, 5462.0, 5515.0, 5663.0, 5484.0, 5594.0, 5368.0, 5697.0, 5411.0, 5584.0, 5665.0, 5254.0, 5667.0, 5536.0, 5391.0, 5447.0, 5459.0, 5305.0, 5389.0, 5312.0, 5327.0, 5359.0, 5533.0, 5511.0, 5407.0, 5567.0, 5543.0 (number of hits: 10)
24	5280	9	1	333	1	5308.0, 5535.0, 5267.0, 5516.0, 5361.0, 5532.0, 5399.0, 5597.0, 5409.0, 5312.0, 5429.0, 5306.0, 5638.0, 5395.0, 5610.0, 5487.0, 5558.0, 5303.0, 5320.0, 5340.0, 5396.0, 5455.0, 5652.0, 5719.0, 5358.0, 5577.0, 5448.0, 5584.0, 5694.0, 5505.0, 5317.0, 5637.0, 5463.0, 5338.0, 5476.0, 5430.0, 5602.0, 5313.0, 5706.0, 5349.0, 5657.0, 5413.0, 5387.0, 5580.0, 5555.0, 5407.0, 5722.0, 5350.0, 5676.0, 5504.0, 5321.0, 5457.0, 5293.0, 5549.0, 5392.0, 5629.0, 5596.0, 5552.0, 5408.0, 5454.0, 5643.0, 5588.0, 5423.0, 5507.0, 5427.0, 5533.0, 5348.0, 5649.0, 5341.0, 5712.0, 5550.0, 5710.0, 5356.0, 5299.0, 5568.0, 5544.0, 5495.0, 5255.0, 5517.0, 5391.0, 5284.0, 5538.0, 5253.0, 5633.0, 5405.0, 5542.0, 5397.0, 5251.0, 5700.0, 5554.0, 5290.0, 5530.0, 5575.0, 5385.0, 5527.0, 5684.0, 5403.0, 5415.0, 5642.0, 5564.0 (number of hits: 8)
25	5280	9	1	333	1	5408.0, 5619.0, 5689.0, 5440.0, 5474.0, 5269.0, 5438.0, 5529.0, 5469.0, 5390.0, 5366.0, 5651.0, 5692.0, 5663.0, 5301.0, 5626.0, 5275.0, 5711.0, 5701.0, 5496.0, 5603.0, 5367.0, 5629.0, 5377.0, 5356.0, 5494.0, 5276.0, 5526.0, 5407.0, 5719.0, 5710.0, 5508.0, 5543.0, 5604.0, 5521.0, 5319.0, 5506.0, 5400.0, 5330.0, 5309.0, 5544.0, 5259.0, 5368.0, 5513.0, 5567.0, 5491.0, 5574.0, 5644.0, 5473.0, 5624.0, 5448.0, 5705.0, 5273.0, 5638.0, 5702.0, 5607.0, 5636.0, 5565.0, 5470.0, 5258.0, 5376.0, 5332.0, 5398.0, 5280.0, 5436.0, 5675.0, 5664.0, 5693.0, 5615.0, 5538.0, 5445.0, 5677.0, 5402.0, 5343.0, 5549.0, 5410.0, 5631.0, 5485.0, 5585.0, 5261.0, 5639.0, 5560.0, 5611.0, 5641.0, 5331.0, 5685.0, 5633.0, 5387.0, 5570.0, 5401.0, 5660.0, 5580.0, 5530.0, 5712.0, 5571.0, 5255.0, 5522.0, 5627.0, 5524.0, 5477.0 (number of hits: 2)
26	5280	9	1	333	1	5554.0, 5556.0, 5511.0, 5718.0, 5499.0, 5460.0, 5659.0, 5651.0, 5382.0, 5547.0, 5545.0, 5663.0, 5381.0, 5578.0, 5582.0, 5694.0, 5670.0, 5656.0, 5598.0, 5303.0, 5453.0, 5706.0, 5561.0, 5683.0, 5324.0, 5350.0, 5468.0, 5300.0, 5258.0, 5448.0, 5643.0, 5268.0, 5327.0, 5597.0, 5436.0, 5680.0, 5529.0, 5634.0, 5501.0, 5476.0, 5284.0, 5299.0, 5567.0, 5559.0, 5490.0

						5546.0, 5617.0, 5459.0, 5649.0, 5606.0, 5504.0, 5482.0, 5592.0, 5588.0, 5503.0, 5692.0, 5383.0, 5657.0, 5412.0, 5352.0, 5539.0, 5618.0, 5310.0, 5349.0, 5345.0, 5325.0, 5721.0, 5636.0, 5292.0, 5616.0, 5500.0, 5533.0, 5387.0, 5484.0, 5611.0, 5690.0, 5558.0, 5439.0, 5444.0, 5480.0, 5337.0, 5562.0, 5392.0, 5260.0, 5287.0, 5704.0, 5713.0, 5395.0, 5438.0, 5521.0, 5557.0, 5622.0, 5408.0, 5394.0, 5612.0, 5710.0, 5491.0, 5563.0, 5296.0, 5542.0 (number of hits: 7)
27	5280	9	1	333	1	5290.0, 5712.0, 5658.0, 5671.0, 5323.0, 5309.0, 5603.0, 5336.0, 5337.0, 5687.0, 5469.0, 5540.0, 5431.0, 5612.0, 5512.0, 5398.0, 5659.0, 5446.0, 5262.0, 5461.0, 5586.0, 5533.0, 5649.0, 5462.0, 5633.0, 5570.0, 5610.0, 5568.0, 5675.0, 5280.0, 5410.0, 5361.0, 5269.0, 5268.0, 5315.0, 5690.0, 5472.0, 5682.0, 5451.0, 5314.0, 5677.0, 5418.0, 5602.0, 5574.0, 5628.0, 5411.0, 5495.0, 5264.0, 5454.0, 5484.0, 5295.0, 5699.0, 5460.0, 5528.0, 5626.0, 5452.0, 5596.0, 5674.0, 5711.0, 5601.0, 5644.0, 5392.0, 5516.0, 5412.0, 5283.0, 5591.0, 5679.0, 5605.0, 5261.0, 5443.0, 5327.0, 5517.0, 5345.0, 5530.0, 5344.0, 5554.0, 5513.0, 5406.0, 5562.0, 5608.0, 5456.0, 5438.0, 5572.0, 5367.0, 5405.0, 5274.0, 5514.0, 5297.0, 5502.0, 5388.0, 5642.0, 5506.0, 5582.0, 5607.0, 5604.0, 5598.0, 5260.0, 5464.0, 5319.0, 5693.0 (number of hits: 5)
28	5280	9	1	333	1	5478.0, 5342.0, 5493.0, 5388.0, 5452.0, 5551.0, 5557.0, 5397.0, 5683.0, 5510.0, 5268.0, 5416.0, 5339.0, 5694.0, 5415.0, 5659.0, 5714.0, 5282.0, 5316.0, 5630.0, 5298.0, 5366.0, 5548.0, 5276.0, 5389.0, 5292.0, 5488.0, 5615.0, 5671.0, 5455.0, 5457.0, 5437.0, 5297.0, 5706.0, 5300.0, 5454.0, 5335.0, 5420.0, 5414.0, 5655.0, 5341.0, 5576.0, 5387.0, 5427.0, 5573.0, 5329.0, 5380.0, 5579.0, 5406.0, 5326.0, 5363.0, 5546.0, 5577.0, 5417.0, 5512.0, 5483.0, 5355.0, 5623.0, 5542.0, 5705.0, 5475.0, 5431.0, 5581.0, 5482.0, 5540.0, 5558.0, 5465.0, 5530.0, 5646.0, 5357.0, 5539.0, 5274.0, 5255.0, 5543.0, 5568.0, 5321.0, 5627.0, 5370.0, 5308.0, 5323.0, 5284.0, 5570.0, 5400.0, 5473.0, 5317.0, 5528.0, 5651.0, 5638.0, 5502.0, 5448.0, 5718.0, 5405.0, 5604.0, 5636.0, 5645.0, 5278.0, 5461.0, 5637.0, 5698.0, 5513.0 (number of hits: 5)
29	5280	9	1	333	1	5601.0, 5530.0, 5594.0, 5593.0, 5455.0, 5475.0, 5266.0, 5312.0, 5668.0, 5496.0, 5487.0, 5254.0, 5702.0, 5319.0, 5715.0, 5427.0, 5512.0, 5301.0, 5532.0, 5603.0, 5651.0, 5655.0, 5493.0, 5691.0, 5607.0, 5558.0, 5698.0, 5381.0, 5674.0, 5482.0,

						5251.0, 5523.0, 5574.0, 5645.0, 5550.0, 5616.0, 5681.0, 5268.0, 5323.0, 5287.0, 5414.0, 5654.0, 5486.0, 5724.0, 5636.0, 5695.0, 5639.0, 5394.0, 5689.0, 5340.0, 5547.0, 5328.0, 5276.0, 5683.0, 5608.0, 5361.0, 5288.0, 5584.0, 5678.0, 5374.0, 5261.0, 5555.0, 5464.0, 5596.0, 5481.0, 5389.0, 5334.0, 5359.0, 5717.0, 5687.0, 5264.0, 5684.0, 5461.0, 5302.0, 5313.0, 5583.0, 5615.0, 5700.0, 5331.0, 5504.0, 5590.0, 5473.0, 5336.0, 5676.0, 5296.0, 5573.0, 5719.0, 5644.0, 5252.0, 5704.0, 5308.0, 5452.0, 5544.0, 5545.0, 5270.0, 5673.0, 5269.0, 5637.0, 5456.0, 5515.0 (number of hits: 8)
30	5280	9	1	333	1	5465.0, 5316.0, 5535.0, 5458.0, 5598.0, 5390.0, 5611.0, 5490.0, 5525.0, 5567.0, 5333.0, 5617.0, 5519.0, 5614.0, 5544.0, 5642.0, 5305.0, 5667.0, 5691.0, 5338.0, 5618.0, 5409.0, 5476.0, 5560.0, 5323.0, 5433.0, 5360.0, 5584.0, 5304.0, 5491.0, 5407.0, 5475.0, 5317.0, 5508.0, 5340.0, 5672.0, 5573.0, 5698.0, 5392.0, 5640.0, 5252.0, 5373.0, 5444.0, 5295.0, 5341.0, 5354.0, 5558.0, 5556.0, 5368.0, 5522.0, 5659.0, 5355.0, 5686.0, 5275.0, 5310.0, 5572.0, 5602.0, 5312.0, 5662.0, 5696.0, 5450.0, 5380.0, 5603.0, 5666.0, 5479.0, 5690.0, 5621.0, 5532.0, 5377.0, 5613.0, 5596.0, 5654.0, 5650.0, 5599.0, 5502.0, 5332.0, 5594.0, 5396.0, 5461.0, 5438.0, 5516.0, 5496.0, 5257.0, 5538.0, 5692.0, 5394.0, 5542.0, 5720.0, 5562.0, 5399.0, 5591.0, 5422.0, 5351.0, 5608.0, 5284.0, 5524.0, 5264.0, 5268.0, 5612.0, 5374.0 (number of hits: 5)

5580 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	90 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	90 %	60%	Pass
Aggregate (Type1 to 4)	120	94.175 %	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	1.1	172	1
2	5580	24	2.3	155	1
3	5580	27	2.2	152	1
4	5580	26	1.7	209	1
5	5580	25	4.2	180	1
6	5580	24	2.8	167	1
7	5580	26	1	222	1
8	5580	29	3.1	169	1
9	5580	23	4.4	165	1
10	5580	27	1.5	217	1
11	5580	23	1	151	1
12	5580	27	2.5	194	1
13	5580	26	1.9	221	1
14	5580	27	1.9	227	1
15	5580	24	2.5	213	1
16	5580	29	4.6	208	1
17	5580	25	3.9	165	1
18	5580	29	3.9	223	1
19	5580	26	1.1	227	1
20	5580	25	4.8	212	1
21	5580	24	3.3	222	1
22	5580	26	3	211	1
23	5580	28	2.2	175	1
24	5580	26	4.7	172	0
25	5580	29	1.6	212	1
26	5580	29	3.9	215	1
27	5580	28	2.3	215	0
28	5580	28	2.2	179	0
29	5580	26	3.1	165	1
30	5580	29	2.7	194	1
Detection Percentage: 90 % (>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	16	7.6	408	1
2	5580	17	7.2	252	1
3	5580	17	9.9	459	1
4	5580	18	7.2	434	1
5	5580	16	10	246	1
6	5580	17	7.6	372	1
7	5580	17	8.4	446	1
8	5580	16	9.9	273	1
9	5580	17	9	216	1
10	5580	18	8.3	346	1
11	5580	17	6.8	217	1
12	5580	16	6.2	304	1
13	5580	18	8.7	338	1
14	5580	16	9.5	452	1
15	5580	18	6.9	260	1
16	5580	18	9.4	319	1
17	5580	17	8.3	481	1
18	5580	16	6.9	222	1
19	5580	17	7.8	482	1
20	5580	17	8.6	337	1
21	5580	17	8.8	495	1
22	5580	17	6	285	1
23	5580	16	10	385	1
24	5580	18	6.7	363	1
25	5580	17	8.8	459	1
26	5580	17	7.2	253	1
27	5580	17	9.2	233	1
28	5580	18	9.8	273	0
29	5580	17	7.9	462	1
30	5580	18	8.7	347	1
Detection Percentage: 96.7 % (>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	16	16.4	204	1
2	5580	14	13.5	487	1
3	5580	14	13.8	268	1
4	5580	16	12.7	296	1
5	5580	12	18.2	277	1
6	5580	16	11.8	321	1
7	5580	14	16.7	464	1
8	5580	13	14.7	460	1
9	5580	13	17.9	267	1
10	5580	14	20	276	1
11	5580	13	12.8	315	1
12	5580	16	13.7	299	1
13	5580	12	16.7	213	1
14	5580	16	16	282	1
15	5580	13	16.5	357	1
16	5580	15	15.1	230	1
17	5580	13	13.3	450	1
18	5580	15	19.5	469	1
19	5580	16	11.8	274	0
20	5580	13	11.8	485	1
21	5580	14	13.7	410	1
22	5580	16	13	403	0
23	5580	15	13.8	406	1
24	5580	12	16.7	255	1
25	5580	12	17.8	379	1
26	5580	12	14.7	346	1
27	5580	15	11.1	224	1
28	5580	13	14.8	201	1
29	5580	14	17.9	417	0
30	5580	14	14.4	225	1
Detection Percentage: 90 % (>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	20	71.9	1206	1420	0.436689	1
1	3	6	69.2	1401	1372	1.085527	
2	1	10	51.6			2.204477	
3	2	14	96.2	1286		3.110083	
4	2	17	77.1	1420		4.461779	
5	2	12	65.6	1540		5.349638	
6	3	18	91.8	1109	1133	5.757361	
7	3	8	67.5	1314	1024	6.630952	
8	2	19	75.5	1623		7.610814	
9	2	14	65	1871		8.566211	
10	2	5	63.5	1899		10.050086	
11	2	14	78.7	1530		10.247653	
12	3	19	75.5	1869	1967	11.688476	

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	10	94.1	1548		0.165225	1
1	2	13	72	1321		1.191094	
2	1	20	59.2			1.43066	
3	1	11	79.1			2.301239	
4	2	10	75.7	1583		2.878658	
5	1	18	60.7			3.170026	
6	2	5	73.3	1375		3.827226	
7	2	11	54.1	1844		4.37042	
8	2	18	53.6	1162		5.237696	
9	1	10	93.8			5.773856	
10	2	18	75.6	1607		6.259175	
11	2	10	69.6	1886		6.659559	
12	2	11	79.1	1952		7.58789	
13	2	15	62.5	1525		8.006563	
14	3	6	76.5	1483	1331	8.761953	
15	2	18	67.2	1380		9.200498	
16	2	16	55	1972		9.66469	
17	2	14	74	1315		10.306055	
18	3	19	82.5	1735	1159	11.219278	
19	2	19	62	1969		11.674982	

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	14	76.7	1569		1.245834	1
1	2	7	66.8	1256		2.943369	
2	2	18	99.4	1737		3.359238	
3	2	13	77.6	1650		5.275225	
4	2	9	90.1	1763		7.449506	
5	2	9	55.8	1942		7.515973	
6	2	8	71.5	1780		9.512039	
7	2	15	65.8	1606		11.729004	

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	14	99.8	1230		0.54062	1
1	2	13	77	1821		1.702779	
2	3	20	59.7	1047	1044	2.968036	
3	2	15	54.2	1668		3.931951	
4	1	9	60.6			4.176323	
5	1	5	65.5			5.430904	
6	3	13	60.3	1366	1379	6.840018	
7	2	17	91.7	1177		7.926422	
8	2	16	83.3	1625		8.017593	
9	3	6	94.8	1492	1405	9.330612	
10	1	19	92			10.666053	
11	2	15	72.1	1558		11.167397	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	90.7	1054	1892	0.517129	1
1	2	19	96.9	1477		1.676456	
2	2	15	95.9	1610		2.024752	
3	3	14	85.3	1405	1106	3.085821	
4	3	8	67.9	1261	1994	3.487014	
5	2	11	91.9	1419		4.650842	
6	3	17	52.9	1038	1506	5.357629	
7	2	11	56.3	1879		6.685477	
8	1	10	83			7.640747	
9	1	9	53.4			8.532727	
10	1	15	74.3			8.724447	
11	3	8	73.7	1605	1755	10.181916	
12	3	20	79.1	1402	1944	11.102906	
13	1	12	89.7			11.803254	

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	5	55.1	1896	1260	0.483554	1
1	1	13	80			1.543009	
2	1	9	91			2.92589	
3	1	15	68.1			4.110026	
4	3	14	78.2	1253	1897	4.444358	
5	2	17	68.8	1040		6.263451	
6	2	13	97.3	1633		7.464644	
7	2	13	57.6	1182		8.377818	
8	2	17	67	1780		9.738515	
9	2	9	68.5	1759		10.213053	
10	2	5	79.4	1290		11.805606	

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	12	86.1	1976		0.241153	1
1	3	18	88.6	1301	1691	1.680853	
2	2	10	67.8	1242		2.144613	
3	1	8	64.6			2.778167	
4	2	8	64.7	1094		3.979039	
5	1	15	50.2			4.727019	
6	1	18	85.8			5.547607	
7	2	13	64.4	1145		6.2891	
8	2	14	94.4	1132		6.979533	
9	2	19	71.1	1770		7.815259	
10	2	14	89.2	1448		9.037988	
11	2	18	73.2	1736		10.037322	
12	2	16	65.7	1071		10.56149	
13	2	10	53.6	1648		11.755361	

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	16	95.6	1822	1050	0.260285	1
1	3	6	72	1035	1443	1.065733	
2	2	13	70.8	1546		1.430304	
3	3	16	96	1837	1205	2.101585	
4	1	8	54.6			2.69604	
5	2	10	77.1	1022		3.663976	
6	2	5	87.8	1486		3.908448	
7	2	16	66.6	1445		4.74309	
8	2	18	79.5	1773		5.418086	
9	2	14	68.7	1702		5.958491	
10	3	9	68.7	1949	1733	6.686789	
11	1	7	96.1			7.46631	
12	1	6	74.5			7.620739	
13	2	20	82.3	1126		8.755293	
14	2	7	75.5	1209		8.894673	
15	2	20	64.7	1498		9.620585	
16	1	11	53.6			10.317832	
17	2	20	80.6	1451		11.126751	
18	3	15	90.9	1531	1201	11.558395	

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	9	69.7			0.067129	1
1	3	9	76.1	1005	1878	1.481747	
2	2	12	95.1	1881		2.04837	
3	3	13	92.1	1050	1841	3.138262	
4	2	12	87	1781		3.284061	
5	2	9	63.2	1905		4.364057	
6	3	14	92.1	1680	1915	5.505882	
7	2	20	58.4	1611		6.312223	
8	3	13	73.9	1068	1966	6.588084	
9	2	19	75	1783		7.973184	
10	1	5	95.4			8.590644	
11	1	12	90			9.033033	
12	3	18	51.9	1010	1881	9.983934	
13	1	14	81.3			10.751986	
14	2	17	52.3	1469		11.613666	

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	10	90.6	1330	1572	0.814596	1
1	3	13	92	1703	1830	1.000277	
2	3	12	92.5	1640	1620	2.84946	
3	2	20	70.2	1960		3.318866	
4	2	13	90.5	1517		4.876216	
5	2	19	91.5	1029		5.551262	
6	2	14	50.8	1868		6.534153	
7	2	11	68	1359		7.404467	
8	1	16	87.7			8.350168	
9	2	16	93	1025		9.594491	
10	3	6	70.7	1026	1722	10.573849	
11	1	14	51.5			11.602279	

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	18	83.4	1509	1935	0.384104	1
1	2	16	55	1374		2.114358	
2	2	14	88.5	1250		2.678836	
3	1	13	93.4			4.32402	
4	2	19	54.9	1481		4.817089	
5	3	13	53.8	1451	1893	6.593557	
6	2	6	77.2	1268		8.080499	
7	1	16	64.8			8.766036	
8	3	17	78.5	1498	1764	10.176708	
9	2	8	70.4	1632		11.760845	

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	18	61.7	1976		0.522757	1
1	2	14	87.9	1889		0.897464	
2	3	8	65	1774	1376	1.680943	
3	2	15	98	1266		2.314769	
4	3	6	66.9	1773	1298	3.056615	
5	1	11	92.4			3.353201	
6	3	9	96.4	1997	1216	4.295516	
7	1	11	54.5			4.744252	
8	2	11	53.1	1781		5.329007	
9	2	6	63.3	1177		6.200572	
10	1	13	71.3			6.690852	
11	3	16	92	1187	1303	7.367319	
12	2	16	64.5	1366		7.680784	
13	2	7	55.1	1951		8.308781	
14	2	20	59.6	1138		9.335983	
15	3	19	88.2	1957	1180	10.081413	
16	2	10	81.6	1631		10.726259	
17	1	7	83.6			10.790708	
18	2	11	99.8	1183		11.455058	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	64.1	1592	1383	0.620918	1
1	2	9	77.2	1104		0.965832	
2	1	12	75.9			1.568011	
3	2	12	91	1884		2.372244	
4	1	9	98.7			2.77064	
5	3	15	96.9	1413	1138	3.583627	
6	3	14	80.3	1082	1281	4.29391	
7	2	18	64.5	1647		4.432269	
8	2	9	50.5	1804		5.564249	
9	3	11	69.3	1003	1045	5.792556	
10	3	12	75.7	1572	1510	6.450746	
11	2	6	93.8	1926		7.008917	
12	1	15	77.3			8.118946	
13	1	12	86.4			8.794354	
14	2	18	56.5	1829		9.180346	
15	3	13	66.7	1885	1277	9.74968	
16	1	14	51.9			10.201772	
17	3	7	72	1417	1943	11.360113	
18	2	7	70.4	1172		11.802317	

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	14	55.2	1734		1.29511	1
1	2	9	77.8	1471		2.873026	
2	2	18	90.5	1275		3.061202	
3	3	8	92	1035	1531	5.809396	
4	3	18	73.1	1037	1608	6.295294	
5	1	12	77			8.306372	
6	1	11	50.2			10.079594	
7	1	16	60.2			11.5262	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	50.8	1093		0.128306	1
1	3	15	66.9	1494	1137	2.110931	
2	3	19	97.9	1332	1049	2.910279	
3	3	8	83.2	1166	1852	4.657126	
4	2	7	84.3	1816		6.199232	
5	1	17	67.9			7.221107	
6	1	19	62.5			9.118711	
7	2	18	70.9	1390		9.67408	
8	2	18	69.7	1339		11.879127	

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	19	61.3	1971	1480	1.114756	1
1	2	8	71.5	1589		2.513697	
2	2	16	64.1	1120		3.531863	
3	2	20	59.4	1765		4.685147	
4	2	11	68.1	1090		6.464098	
5	2	18	86.9	1202		7.055727	
6	1	19	58.1			8.919531	
7	1	17	87.8			10.204501	
8	1	11	59.3			11.609329	

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	18	79.7	1452		0.718477	1
1	3	16	74.4	1929	1978	1.175189	
2	3	15	64	1356	1797	1.829071	
3	1	19	52.6			2.945937	
4	2	10	73.4	1175		4.248914	
5	1	13	51.8			4.406849	
6	2	10	75.2	1639		5.292793	
7	2	10	51.4	1557		6.581407	
8	3	17	64.4	1883	1114	7.305385	
9	2	11	58.6	1539		8.120792	
10	1	10	99.9			8.668777	
11	2	17	62.8	1825		10.145535	
12	2	11	50.6	1211		10.47191	
13	2	19	75	1720		11.795453	

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	15	94.5			0.524588	1
1	2	7	91.2	1206		1.199796	
2	2	18	74.9	1562		2.153625	
3	3	9	99.8	1600	1294	3.097465	
4	1	19	73.8			4.194924	
5	2	20	65.6	1979		5.087013	
6	2	19	87.5	1255		5.263808	
7	2	6	51.9	1346		6.649713	
8	2	18	74.5	1245		7.681401	
9	2	7	75.9	1940		8.029426	
10	2	7	56.3	1492		9.219395	
11	2	18	70.9	1109		10.011053	
12	3	8	97.5	1615	1231	10.529946	
13	2	20	54.5	1467		11.495934	

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	8	59	1651		0.501613	1
1	3	16	56.4	1310	1890	1.18842	
2	2	17	57	1806		2.116101	
3	1	7	85.3			2.647156	
4	3	17	55.2	1891	1249	3.79358	
5	2	13	80.2	1634		4.186982	
6	2	16	88.6	1046		4.974175	
7	2	17	82.1	1527		5.840843	
8	1	9	89.9			6.710938	
9	1	19	72.9			7.485001	
10	3	7	64.7	1522	1067	8.513523	
11	3	10	70.5	1102	1804	9.55385	
12	2	12	59.2	1125		10.026183	
13	1	8	51.9			10.780279	
14	2	18	67.3	1256		11.627434	

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	7	58.4	1587		0.04602	1
1	2	14	58.4	1421		2.320341	
2	1	5	61.7			3.480605	
3	1	11	80.4			4.477528	
4	2	12	61.7	1969		5.422397	
5	1	6	91.1			7.887972	
6	2	12	85.6	1206		8.357515	
7	2	17	78.4	1528		9.632206	
8	2	14	97.3	1353		11.9941	

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	7	84.7			0.19595	1
1	2	8	67	1732		0.768813	
2	2	12	63	1320		1.339716	
3	3	15	78.5	1502	1747	2.184479	
4	1	18	56.6			3.307596	
5	3	17	56	1837	1035	3.758963	
6	1	17	78.3			4.204653	
7	2	8	77.2	1949		4.99443	
8	2	7	71.9	1661		5.62573	
9	1	18	77.3			6.066517	
10	1	18	70.5			7.05475	
11	2	16	55	1698		7.868388	
12	3	7	83.6	1172	1148	8.388158	
13	1	5	89.6			9.322291	
14	1	16	87.3			9.992397	
15	3	12	67.1	1062	1289	10.366447	
16	1	14	51.2			10.909628	
17	2	10	72.9	1064		11.744298	

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	7	87.5	1821	1652	0.893297	1
1	2	8	72.7	1386		1.781223	
2	2	18	84.2	1146		3.133905	
3	2	9	77	1972		4.29154	
4	3	15	75.9	1422	1633	5.012873	
5	2	20	89.2	1691		5.81209	
6	3	15	64.6	1802	1533	7.235669	
7	2	15	51.7	1324		8.667945	
8	2	7	59.2	1591		9.550419	
9	1	15	70.5			9.847887	
10	2	9	57.5	1437		11.937066	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	73.9	1495	1875	0.406581	1
1	3	13	83.5	1584	1364	2.541018	
2	2	18	70.6	1883		4.420517	
3	2	9	62.8	1313		5.936378	
4	3	19	89.5	1097	1938	7.490516	
5	3	6	52.9	1100	1785	8.802562	
6	3	7	90.4	1026	1125	9.182944	
7	3	7	59.9	1731	1979	11.991971	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	86.2	1407		0.11875	1
1	3	9	56.8	1080	1197	0.891166	
2	3	13	80.1	1244	1206	1.907654	
3	2	12	84.1	1468		2.276417	
4	3	19	64.3	1353	1369	2.738417	
5	1	13	62.2			3.842781	
6	2	18	67.5	1547		4.587542	
7	2	12	86.7	1977		4.741988	
8	3	5	52.2	1904	1943	5.425174	
9	1	8	60.4			6.395436	
10	1	6	71.2			6.83929	
11	3	17	50.8	1149	1999	7.808897	
12	1	12	89.4			8.283853	
13	3	16	53.6	1121	1894	9.294973	
14	3	17	86.1	1785	1335	9.341039	
15	2	9	99.6	1141		10.128584	
16	2	14	74.9	1169		11.220706	
17	2	13	62.8	1374		11.57685	

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	17	78.3	1742	1437	0.312117	1
1	2	6	74.5	1998		0.986077	
2	2	9	77.7	1031		1.677029	
3	1	14	94.8			2.462709	
4	2	5	95	1226		2.792193	
5	2	15	50.5	1887		3.445171	
6	2	10	76.7	1934		4.320332	
7	1	10	72.9			4.516479	
8	1	20	64.3			5.477229	
9	2	19	78.6	1386		5.888505	
10	1	5	92.1			6.619444	
11	2	16	61.7	1377		7.158689	
12	3	19	55.3	1547	1398	7.87095	
13	1	14	69.3			8.769092	
14	2	16	68.3	1101		9.113312	
15	2	16	58.8	1827		10.086549	
16	2	11	55.4	1082		10.322982	
17	2	7	70.1	1417		11.119175	
18	2	9	56.6	1661		11.633613	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	73.3			0.366571	1
1	3	7	97.5	1346	1022	1.052377	
2	2	17	89	1861		1.810334	
3	2	19	57.3	1324		2.435489	
4	3	17	74.1	1901	1254	3.225654	
5	3	11	99.7	1403	1432	3.536241	
6	3	12	86.3	1499	1214	4.00211	
7	3	9	71.3	1221	1254	5.016639	
8	2	18	66.3	1314		5.363006	
9	3	13	99	1207	1711	6.08938	
10	3	8	89	1494	1555	6.699652	
11	3	18	89.4	1591	1498	7.475286	
12	2	7	86.2	1732		8.532086	
13	2	12	53.7	1637		8.878314	
14	2	12	66.7	1141		9.50615	
15	2	13	89.4	1473		10.13367	
16	2	13	59.2	1262		11.039916	
17	2	10	93	1663		11.942276	

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	98.4	1824		0.738983	1
1	1	16	57.9			1.96955	
2	2	17	84.3	1874		2.425001	
3	2	13	99.4	1082		4.212025	
4	1	18	81.3			5.516071	
5	1	18	60.8			6.991359	
6	2	6	82.5	1026		7.478183	
7	1	18	75			9.078013	
8	2	8	98.1	1479		9.766059	
9	3	8	67.4	1610	1815	11.793529	

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	67.3	1275		0.250718	1
1	2	17	72.7	1825		1.137793	
2	3	17	77.2	1028	1857	1.597873	
3	3	8	76.5	1877	1140	2.001439	
4	1	9	92.9			3.260038	
5	1	9	95.4			3.556367	
6	1	11	51.5			4.576652	
7	1	7	92.5			5.125345	
8	3	20	65.3	1437	1821	5.377712	
9	3	16	72.8	1041	1124	6.251073	
10	1	13	99.9			7.245563	
11	3	6	91.3	1528	1341	7.828495	
12	3	8	53.4	1688	1070	8.371884	
13	2	18	99.2	1101		9.022346	
14	1	5	68.3			9.762917	
15	1	18	97.1			10.190653	
16	1	9	96.4			11.126593	
17	3	14	99.4	1602	1921	11.431412	

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	7	99.9			0.330645	1
1	1	10	68.9			1.779186	
2	3	18	69.6	1990	1002	2.615588	
3	3	14	76	1116	1079	3.544175	
4	2	7	60.1	1065		4.940054	
5	3	17	67.5	1699	1991	5.218636	
6	3	20	80.8	1920	1302	6.842489	
7	1	8	98.1			7.973063	
8	2	19	71	1068		8.255032	
9	2	11	71.7	1668		9.669911	
10	2	6	88.8	1278		10.995312	
11	2	17	87.7	1646		11.501357	

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	8	59.9	1868		0.556157	1
1	3	17	65.5	1210	1937	0.898603	
2	2	10	71.1	1329		1.604622	
3	1	8	59.7			2.083007	
4	2	5	93.2	1586		2.776112	
5	3	18	72.5	1554	1873	3.222298	
6	2	17	65	1939		4.272597	
7	2	19	84.1	1730		4.637013	
8	2	15	96.7	1480		5.101198	
9	1	19	58.6			5.989866	
10	2	19	90.9	1530		6.531154	
11	2	11	81.9	1168		6.976015	
12	1	10	94.3			7.739457	
13	3	6	60.4	1120	1203	8.563243	
14	2	20	93.2	1336		9.121935	
15	3	15	97.9	1042	1189	9.718872	
16	2	7	54.3	1659		10.39526	
17	3	11	97.4	1420	1251	10.806286	
18	2	18	72	1889		11.611355	

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	5372.0, 5396.0, 5562.0, 5394.0, 5485.0, 5302.0, 5309.0, 5416.0, 5634.0, 5509.0, 5442.0, 5613.0, 5609.0, 5312.0, 5289.0, 5564.0, 5329.0, 5310.0, 5423.0, 5272.0, 5591.0, 5345.0, 5347.0, 5559.0, 5400.0, 5718.0, 5556.0, 5261.0, 5702.0, 5331.0, 5343.0, 5467.0, 5625.0, 5602.0, 5633.0, 5697.0, 5530.0, 5456.0, 5639.0, 5399.0, 5519.0, 5353.0, 5466.0, 5626.0, 5570.0, 5521.0, 5581.0, 5657.0, 5677.0, 5278.0, 5362.0, 5424.0, 5488.0, 5498.0, 5260.0, 5440.0, 5709.0, 5569.0, 5699.0, 5273.0, 5587.0, 5528.0, 5282.0, 5476.0, 5555.0, 5501.0, 5588.0, 5428.0, 5315.0, 5723.0, 5271.0, 5654.0, 5689.0, 5269.0, 5427.0, 5450.0, 5526.0, 5455.0, 5386.0, 5355.0, 5301.0, 5594.0, 5525.0, 5342.0, 5585.0, 5642.0, 5648.0, 5670.0, 5284.0, 5515.0, 5503.0, 5360.0, 5622.0, 5546.0, 5685.0, 5403.0, 5410.0, 5379.0, 5720.0, 5325.0 (number of hits: 6)
2	5580	9	1	333	1	5327.0, 5416.0, 5381.0, 5592.0, 5526.0, 5628.0, 5635.0, 5701.0, 5507.0, 5511.0, 5704.0, 5312.0, 5504.0, 5597.0, 5470.0, 5453.0, 5574.0, 5705.0, 5391.0, 5560.0, 5660.0, 5461.0, 5424.0, 5360.0, 5529.0, 5310.0, 5586.0, 5268.0, 5445.0, 5653.0, 5685.0, 5683.0, 5697.0, 5642.0, 5692.0, 5443.0, 5604.0, 5623.0, 5351.0, 5676.0, 5256.0, 5356.0, 5679.0, 5524.0, 5285.0, 5379.0, 5358.0, 5684.0, 5494.0, 5375.0, 5395.0, 5422.0, 5389.0, 5610.0, 5544.0, 5383.0, 5281.0, 5330.0, 5681.0, 5713.0, 5414.0, 5606.0, 5306.0, 5376.0, 5566.0, 5345.0, 5276.0, 5467.0, 5654.0, 5700.0, 5252.0, 5585.0, 5714.0, 5290.0, 5473.0, 5471.0, 5622.0, 5694.0, 5661.0, 5674.0, 5603.0, 5399.0, 5483.0, 5506.0, 5369.0, 5475.0, 5484.0, 5326.0, 5394.0, 5271.0, 5409.0, 5687.0, 5589.0, 5702.0, 5374.0, 5362.0, 5634.0, 5540.0, 5305.0, 5255.0 (number of hits: 6)
3	5580	9	1	333	1	5448.0, 5659.0, 5370.0, 5663.0, 5647.0, 5268.0, 5609.0, 5553.0, 5504.0, 5445.0, 5261.0, 5689.0, 5414.0, 5446.0, 5683.0, 5579.0, 5475.0, 5619.0, 5367.0, 5469.0, 5269.0, 5349.0, 5550.0, 5410.0, 5513.0, 5280.0, 5660.0, 5258.0, 5712.0, 5462.0, 5420.0, 5563.0, 5272.0, 5601.0, 5665.0, 5656.0, 5695.0, 5629.0, 5348.0, 5559.0, 5389.0, 5320.0, 5276.0, 5433.0, 5545.0, 5716.0, 5585.0, 5573.0, 5295.0, 5580.0, 5408.0, 5604.0, 5536.0, 5622.0, 5363.0, 5596.0, 5523.0, 5463.0, 5335.0, 5521.0,

						5484.0, 5347.0, 5442.0, 5533.0, 5606.0, 5392.0, 5338.0, 5541.0, 5570.0, 5546.0, 5315.0, 5554.0, 5562.0, 5467.0, 5254.0, 5684.0, 5636.0, 5405.0, 5544.0, 5312.0, 5516.0, 5537.0, 5519.0, 5264.0, 5538.0, 5607.0, 5449.0, 5675.0, 5558.0, 5426.0, 5398.0, 5557.0, 5342.0, 5404.0, 5458.0, 5693.0, 5532.0, 5250.0, 5364.0, 5691.0 (number of hits: 2)
4	5580	9	1	333	1	5314.0, 5698.0, 5694.0, 5365.0, 5291.0, 5483.0, 5374.0, 5354.0, 5615.0, 5523.0, 5420.0, 5432.0, 5564.0, 5358.0, 5295.0, 5343.0, 5605.0, 5641.0, 5306.0, 5478.0, 5333.0, 5348.0, 5533.0, 5655.0, 5667.0, 5472.0, 5445.0, 5561.0, 5679.0, 5260.0, 5544.0, 5588.0, 5382.0, 5384.0, 5602.0, 5470.0, 5653.0, 5476.0, 5436.0, 5263.0, 5685.0, 5315.0, 5529.0, 5507.0, 5621.0, 5296.0, 5633.0, 5665.0, 5549.0, 5392.0, 5562.0, 5643.0, 5386.0, 5495.0, 5624.0, 5336.0, 5473.0, 5711.0, 5444.0, 5508.0, 5270.0, 5714.0, 5323.0, 5579.0, 5484.0, 5400.0, 5583.0, 5511.0, 5446.0, 5327.0, 5367.0, 5439.0, 5337.0, 5578.0, 5604.0, 5300.0, 5538.0, 5481.0, 5429.0, 5312.0, 5279.0, 5717.0, 5520.0, 5339.0, 5516.0, 5606.0, 5629.0, 5566.0, 5683.0, 5664.0, 5331.0, 5576.0, 5554.0, 5311.0, 5466.0, 5571.0, 5356.0, 5670.0, 5410.0, 5318.0 (number of hits: 8)
5	5580	9	1	333	1	5310.0, 5467.0, 5438.0, 5329.0, 5520.0, 5654.0, 5690.0, 5448.0, 5311.0, 5344.0, 5495.0, 5511.0, 5282.0, 5683.0, 5262.0, 5532.0, 5389.0, 5655.0, 5252.0, 5372.0, 5640.0, 5708.0, 5418.0, 5412.0, 5283.0, 5308.0, 5570.0, 5251.0, 5722.0, 5510.0, 5519.0, 5427.0, 5296.0, 5551.0, 5376.0, 5461.0, 5711.0, 5447.0, 5642.0, 5496.0, 5405.0, 5700.0, 5482.0, 5698.0, 5402.0, 5460.0, 5457.0, 5648.0, 5301.0, 5686.0, 5325.0, 5431.0, 5589.0, 5377.0, 5479.0, 5350.0, 5370.0, 5717.0, 5550.0, 5382.0, 5316.0, 5260.0, 5588.0, 5638.0, 5564.0, 5381.0, 5581.0, 5398.0, 5610.0, 5299.0, 5624.0, 5425.0, 5612.0, 5639.0, 5266.0, 5540.0, 5554.0, 5362.0, 5579.0, 5417.0, 5526.0, 5693.0, 5413.0, 5688.0, 5571.0, 5591.0, 5443.0, 5346.0, 5263.0, 5401.0, 5598.0, 5601.0, 5327.0, 5680.0, 5490.0, 5268.0, 5545.0, 5549.0, 5595.0, 5395.0 (number of hits: 6)
6	5580	9	1	333	1	5588.0, 5366.0, 5665.0, 5700.0, 5584.0, 5678.0, 5612.0, 5438.0, 5711.0, 5401.0, 5626.0, 5471.0, 5436.0, 5591.0, 5363.0, 5258.0, 5274.0, 5706.0, 5303.0, 5538.0, 5357.0, 5629.0, 5402.0, 5566.0, 5519.0, 5652.0, 5413.0, 5510.0, 5382.0, 5407.0, 5619.0, 5719.0, 5556.0, 5312.0, 5422.0, 5720.0, 5687.0, 5526.0, 5667.0, 5467.0, 5721.0, 5618.0, 5496.0, 5435.0, 5625.0,

						5549.0, 5344.0, 5271.0, 5284.0, 5601.0, 5419.0, 5717.0, 5285.0, 5654.0, 5473.0, 5391.0, 5328.0, 5704.0, 5639.0, 5351.0, 5541.0, 5533.0, 5557.0, 5445.0, 5646.0, 5394.0, 5697.0, 5707.0, 5683.0, 5516.0, 5518.0, 5723.0, 5371.0, 5645.0, 5352.0, 5694.0, 5354.0, 5487.0, 5703.0, 5580.0, 5501.0, 5664.0, 5542.0, 5647.0, 5400.0, 5417.0, 5392.0, 5682.0, 5606.0, 5527.0, 5251.0, 5464.0, 5365.0, 5693.0, 5474.0, 5317.0, 5550.0, 5430.0, 5610.0, 5379.0 (number of hits: 3)
7	5580	9	1	333	1	5603.0, 5564.0, 5322.0, 5466.0, 5281.0, 5639.0, 5397.0, 5291.0, 5289.0, 5595.0, 5534.0, 5513.0, 5336.0, 5543.0, 5537.0, 5590.0, 5290.0, 5316.0, 5439.0, 5527.0, 5507.0, 5625.0, 5354.0, 5488.0, 5410.0, 5315.0, 5588.0, 5505.0, 5301.0, 5360.0, 5499.0, 5549.0, 5705.0, 5551.0, 5444.0, 5263.0, 5452.0, 5286.0, 5641.0, 5462.0, 5511.0, 5430.0, 5613.0, 5425.0, 5423.0, 5347.0, 5283.0, 5330.0, 5694.0, 5446.0, 5284.0, 5574.0, 5497.0, 5666.0, 5718.0, 5400.0, 5616.0, 5669.0, 5599.0, 5304.0, 5447.0, 5464.0, 5337.0, 5681.0, 5481.0, 5620.0, 5624.0, 5441.0, 5487.0, 5685.0, 5661.0, 5358.0, 5424.0, 5258.0, 5658.0, 5722.0, 5682.0, 5692.0, 5450.0, 5297.0, 5451.0, 5526.0, 5711.0, 5715.0, 5512.0, 5660.0, 5365.0, 5676.0, 5416.0, 5310.0, 5483.0, 5437.0, 5409.0, 5375.0, 5482.0, 5653.0, 5654.0, 5351.0, 5253.0, 5583.0 (number of hits: 8)
8	5580	9	1	333	1	5590.0, 5720.0, 5435.0, 5542.0, 5562.0, 5441.0, 5316.0, 5673.0, 5437.0, 5432.0, 5563.0, 5404.0, 5534.0, 5586.0, 5262.0, 5616.0, 5661.0, 5567.0, 5493.0, 5517.0, 5390.0, 5448.0, 5596.0, 5601.0, 5290.0, 5716.0, 5360.0, 5281.0, 5304.0, 5602.0, 5527.0, 5451.0, 5355.0, 5632.0, 5423.0, 5255.0, 5366.0, 5386.0, 5345.0, 5446.0, 5481.0, 5351.0, 5724.0, 5347.0, 5447.0, 5267.0, 5594.0, 5597.0, 5656.0, 5565.0, 5310.0, 5299.0, 5574.0, 5450.0, 5344.0, 5373.0, 5610.0, 5541.0, 5566.0, 5525.0, 5285.0, 5622.0, 5321.0, 5555.0, 5604.0, 5312.0, 5369.0, 5543.0, 5505.0, 5554.0, 5598.0, 5641.0, 5382.0, 5392.0, 5666.0, 5636.0, 5544.0, 5271.0, 5438.0, 5500.0, 5532.0, 5384.0, 5608.0, 5458.0, 5709.0, 5671.0, 5547.0, 5495.0, 5420.0, 5370.0, 5698.0, 5511.0, 5280.0, 5683.0, 5672.0, 5535.0, 5705.0, 5264.0, 5452.0, 5718.0 (number of hits: 6)
9	5580	9	1	333	1	5512.0, 5394.0, 5267.0, 5639.0, 5718.0, 5424.0, 5539.0, 5676.0, 5552.0, 5505.0, 5640.0, 5250.0, 5668.0, 5656.0, 5340.0, 5454.0, 5695.0, 5508.0, 5269.0, 5518.0, 5287.0, 5443.0, 5621.0, 5719.0, 5680.0, 5627.0, 5341.0, 5362.0, 5480.0, 5316.0,

						5583.0, 5377.0, 5607.0, 5415.0, 5402.0, 5643.0, 5417.0, 5514.0, 5449.0, 5374.0, 5495.0, 5278.0, 5451.0, 5532.0, 5555.0, 5549.0, 5497.0, 5642.0, 5510.0, 5293.0, 5613.0, 5610.0, 5537.0, 5662.0, 5281.0, 5501.0, 5513.0, 5353.0, 5398.0, 5437.0, 5675.0, 5273.0, 5466.0, 5625.0, 5519.0, 5430.0, 5557.0, 5469.0, 5355.0, 5383.0, 5359.0, 5693.0, 5664.0, 5382.0, 5708.0, 5368.0, 5568.0, 5465.0, 5292.0, 5256.0, 5331.0, 5320.0, 5692.0, 5569.0, 5395.0, 5698.0, 5570.0, 5622.0, 5356.0, 5361.0, 5629.0, 5470.0, 5658.0, 5707.0, 5661.0, 5478.0, 5294.0, 5426.0, 5556.0, 5327.0 (number of hits: 4)
10	5580	9	1	333	1	5393.0, 5677.0, 5574.0, 5509.0, 5695.0, 5348.0, 5490.0, 5351.0, 5467.0, 5391.0, 5405.0, 5349.0, 5699.0, 5252.0, 5533.0, 5293.0, 5487.0, 5444.0, 5373.0, 5641.0, 5355.0, 5583.0, 5556.0, 5491.0, 5504.0, 5389.0, 5300.0, 5530.0, 5642.0, 5262.0, 5269.0, 5344.0, 5338.0, 5364.0, 5494.0, 5606.0, 5429.0, 5621.0, 5457.0, 5417.0, 5545.0, 5681.0, 5515.0, 5302.0, 5524.0, 5442.0, 5331.0, 5609.0, 5588.0, 5435.0, 5655.0, 5254.0, 5478.0, 5339.0, 5502.0, 5319.0, 5654.0, 5271.0, 5538.0, 5714.0, 5688.0, 5343.0, 5311.0, 5647.0, 5718.0, 5274.0, 5652.0, 5431.0, 5427.0, 5519.0, 5273.0, 5377.0, 5528.0, 5552.0, 5454.0, 5516.0, 5563.0, 5418.0, 5616.0, 5700.0, 5448.0, 5412.0, 5451.0, 5281.0, 5685.0, 5376.0, 5603.0, 5560.0, 5286.0, 5453.0, 5637.0, 5636.0, 5403.0, 5550.0, 5668.0, 5651.0, 5660.0, 5301.0, 5678.0, 5548.0 (number of hits: 6)
11	5580	9	1	333	1	5580.0, 5710.0, 5344.0, 5706.0, 5533.0, 5539.0, 5316.0, 5697.0, 5583.0, 5518.0, 5300.0, 5333.0, 5643.0, 5436.0, 5266.0, 5468.0, 5330.0, 5624.0, 5716.0, 5401.0, 5619.0, 5588.0, 5497.0, 5560.0, 5648.0, 5574.0, 5363.0, 5317.0, 5557.0, 5301.0, 5686.0, 5713.0, 5694.0, 5589.0, 5311.0, 5636.0, 5590.0, 5399.0, 5522.0, 5550.0, 5484.0, 5505.0, 5608.0, 5511.0, 5551.0, 5601.0, 5257.0, 5638.0, 5368.0, 5433.0, 5276.0, 5602.0, 5352.0, 5373.0, 5555.0, 5573.0, 5582.0, 5714.0, 5405.0, 5546.0, 5711.0, 5469.0, 5384.0, 5651.0, 5610.0, 5457.0, 5669.0, 5657.0, 5481.0, 5493.0, 5490.0, 5692.0, 5529.0, 5506.0, 5477.0, 5313.0, 5292.0, 5364.0, 5467.0, 5523.0, 5703.0, 5381.0, 5614.0, 5271.0, 5659.0, 5461.0, 5406.0, 5586.0, 5473.0, 5626.0, 5532.0, 5552.0, 5279.0, 5491.0, 5664.0, 5569.0, 5634.0, 5479.0, 5340.0, 5689.0 (number of hits: 5)
12	5580	9	1	333	1	5569.0, 5647.0, 5291.0, 5271.0, 5391.0, 5526.0, 5297.0, 5419.0, 5465.0, 5464.0, 5589.0, 5556.0, 5454.0, 5299.0, 5445.0,

						5300.0, 5670.0, 5605.0, 5546.0, 5254.0, 5298.0, 5431.0, 5364.0, 5404.0, 5259.0, 5551.0, 5557.0, 5507.0, 5702.0, 5684.0, 5416.0, 5633.0, 5709.0, 5651.0, 5532.0, 5675.0, 5591.0, 5609.0, 5320.0, 5583.0, 5716.0, 5252.0, 5528.0, 5593.0, 5623.0, 5456.0, 5276.0, 5301.0, 5388.0, 5479.0, 5492.0, 5582.0, 5619.0, 5563.0, 5714.0, 5472.0, 5442.0, 5477.0, 5370.0, 5447.0, 5305.0, 5415.0, 5401.0, 5461.0, 5566.0, 5329.0, 5366.0, 5494.0, 5590.0, 5585.0, 5539.0, 5363.0, 5498.0, 5402.0, 5336.0, 5645.0, 5535.0, 5553.0, 5678.0, 5571.0, 5706.0, 5390.0, 5306.0, 5608.0, 5383.0, 5351.0, 5485.0, 5385.0, 5584.0, 5348.0, 5371.0, 5427.0, 5288.0, 5312.0, 5333.0, 5502.0, 5682.0, 5722.0, 5493.0, 5540.0 (number of hits: 10)
13	5580	9	1	333	1	5260.0, 5364.0, 5455.0, 5589.0, 5441.0, 5399.0, 5281.0, 5719.0, 5380.0, 5449.0, 5319.0, 5316.0, 5508.0, 5488.0, 5373.0, 5349.0, 5717.0, 5288.0, 5481.0, 5642.0, 5709.0, 5679.0, 5435.0, 5571.0, 5593.0, 5417.0, 5456.0, 5722.0, 5551.0, 5575.0, 5558.0, 5457.0, 5578.0, 5594.0, 5459.0, 5369.0, 5330.0, 5405.0, 5408.0, 5438.0, 5461.0, 5253.0, 5697.0, 5451.0, 5710.0, 5484.0, 5540.0, 5324.0, 5480.0, 5637.0, 5323.0, 5649.0, 5462.0, 5467.0, 5565.0, 5539.0, 5654.0, 5515.0, 5493.0, 5433.0, 5694.0, 5514.0, 5545.0, 5574.0, 5282.0, 5666.0, 5388.0, 5414.0, 5671.0, 5446.0, 5579.0, 5644.0, 5611.0, 5720.0, 5263.0, 5687.0, 5701.0, 5676.0, 5422.0, 5383.0, 5398.0, 5257.0, 5350.0, 5443.0, 5527.0, 5256.0, 5371.0, 5634.0, 5385.0, 5534.0, 5470.0, 5608.0, 5482.0, 5469.0, 5448.0, 5301.0, 5586.0, 5683.0, 5397.0, 5498.0 (number of hits: 2)
14	5580	9	1	333	1	5609.0, 5661.0, 5493.0, 5281.0, 5565.0, 5414.0, 5397.0, 5438.0, 5406.0, 5621.0, 5422.0, 5637.0, 5475.0, 5313.0, 5473.0, 5370.0, 5606.0, 5389.0, 5266.0, 5579.0, 5503.0, 5514.0, 5461.0, 5618.0, 5645.0, 5451.0, 5558.0, 5365.0, 5705.0, 5717.0, 5589.0, 5585.0, 5298.0, 5368.0, 5385.0, 5657.0, 5325.0, 5573.0, 5331.0, 5644.0, 5510.0, 5255.0, 5627.0, 5528.0, 5536.0, 5544.0, 5532.0, 5572.0, 5258.0, 5269.0, 5349.0, 5293.0, 5427.0, 5363.0, 5578.0, 5351.0, 5399.0, 5531.0, 5580.0, 5250.0, 5327.0, 5489.0, 5378.0, 5526.0, 5648.0, 5446.0, 5567.0, 5666.0, 5574.0, 5704.0, 5321.0, 5468.0, 5620.0, 5274.0, 5556.0, 5412.0, 5294.0, 5302.0, 5480.0, 5594.0, 5543.0, 5306.0, 5428.0, 5524.0, 5529.0, 5333.0, 5437.0, 5678.0, 5502.0, 5560.0, 5507.0, 5721.0, 5442.0, 5337.0, 5715.0, 5264.0, 5347.0, 5498.0, 5271.0, 5539.0 (number of hits: 6)

15	5580	9	1	333	1	5323.0, 5689.0, 5280.0, 5580.0, 5313.0, 5322.0, 5589.0, 5305.0, 5351.0, 5583.0, 5591.0, 5526.0, 5300.0, 5547.0, 5657.0, 5603.0, 5487.0, 5612.0, 5572.0, 5485.0, 5596.0, 5445.0, 5690.0, 5291.0, 5672.0, 5595.0, 5403.0, 5604.0, 5671.0, 5256.0, 5302.0, 5455.0, 5723.0, 5541.0, 5510.0, 5398.0, 5462.0, 5384.0, 5571.0, 5448.0, 5437.0, 5309.0, 5374.0, 5475.0, 5447.0, 5262.0, 5479.0, 5548.0, 5659.0, 5624.0, 5708.0, 5488.0, 5394.0, 5527.0, 5411.0, 5275.0, 5626.0, 5683.0, 5606.0, 5289.0, 5282.0, 5434.0, 5285.0, 5276.0, 5717.0, 5554.0, 5599.0, 5265.0, 5368.0, 5388.0, 5713.0, 5587.0, 5253.0, 5365.0, 5712.0, 5261.0, 5267.0, 5391.0, 5390.0, 5358.0, 5551.0, 5332.0, 5707.0, 5269.0, 5503.0, 5562.0, 5525.0, 5292.0, 5613.0, 5348.0, 5317.0, 5535.0, 5651.0, 5486.0, 5417.0, 5412.0, 5342.0, 5578.0, 5338.0, 5407.0 (number of hits: 9)
16	5580	9	1	333	1	5426.0, 5586.0, 5402.0, 5632.0, 5619.0, 5540.0, 5660.0, 5438.0, 5303.0, 5366.0, 5254.0, 5675.0, 5272.0, 5688.0, 5461.0, 5261.0, 5607.0, 5335.0, 5617.0, 5510.0, 5253.0, 5489.0, 5356.0, 5681.0, 5657.0, 5691.0, 5351.0, 5644.0, 5552.0, 5686.0, 5349.0, 5719.0, 5465.0, 5408.0, 5623.0, 5348.0, 5250.0, 5446.0, 5292.0, 5313.0, 5424.0, 5594.0, 5290.0, 5535.0, 5419.0, 5417.0, 5588.0, 5399.0, 5565.0, 5715.0, 5696.0, 5692.0, 5451.0, 5638.0, 5415.0, 5264.0, 5571.0, 5627.0, 5508.0, 5410.0, 5308.0, 5330.0, 5548.0, 5624.0, 5300.0, 5323.0, 5383.0, 5271.0, 5252.0, 5486.0, 5469.0, 5320.0, 5378.0, 5516.0, 5321.0, 5365.0, 5584.0, 5439.0, 5305.0, 5684.0, 5331.0, 5457.0, 5377.0, 5400.0, 5392.0, 5702.0, 5542.0, 5463.0, 5304.0, 5583.0, 5343.0, 5491.0, 5403.0, 5642.0, 5284.0, 5537.0, 5473.0, 5562.0, 5661.0, 5389.0 (number of hits: 8)
17	5580	9	1	333	1	5551.0, 5417.0, 5501.0, 5461.0, 5345.0, 5388.0, 5426.0, 5575.0, 5272.0, 5450.0, 5606.0, 5301.0, 5412.0, 5418.0, 5602.0, 5512.0, 5413.0, 5595.0, 5634.0, 5384.0, 5633.0, 5609.0, 5312.0, 5372.0, 5387.0, 5286.0, 5717.0, 5474.0, 5306.0, 5676.0, 5664.0, 5328.0, 5420.0, 5546.0, 5582.0, 5532.0, 5277.0, 5539.0, 5414.0, 5358.0, 5696.0, 5498.0, 5446.0, 5434.0, 5405.0, 5557.0, 5303.0, 5571.0, 5538.0, 5371.0, 5535.0, 5265.0, 5479.0, 5702.0, 5503.0, 5558.0, 5574.0, 5325.0, 5408.0, 5549.0, 5614.0, 5342.0, 5680.0, 5541.0, 5302.0, 5478.0, 5659.0, 5463.0, 5556.0, 5488.0, 5714.0, 5381.0, 5329.0, 5435.0, 5511.0, 5443.0, 5416.0, 5668.0, 5411.0, 5437.0, 5314.0, 5432.0, 5455.0, 5335.0, 5588.0, 5679.0, 5700.0, 5256.0, 5682.0, 5346.0,

						5701.0, 5712.0, 5452.0, 5377.0, 5628.0, 5374.0, 5383.0, 5708.0, 5273.0, 5327.0 (number of hits: 7)
18	5580	9	1	333	1	5661.0, 5484.0, 5699.0, 5423.0, 5414.0, 5475.0, 5556.0, 5601.0, 5471.0, 5378.0, 5487.0, 5275.0, 5436.0, 5395.0, 5470.0, 5642.0, 5559.0, 5283.0, 5716.0, 5424.0, 5301.0, 5312.0, 5272.0, 5647.0, 5251.0, 5310.0, 5327.0, 5614.0, 5651.0, 5537.0, 5441.0, 5442.0, 5563.0, 5469.0, 5513.0, 5688.0, 5398.0, 5720.0, 5572.0, 5426.0, 5691.0, 5379.0, 5706.0, 5546.0, 5252.0, 5290.0, 5473.0, 5721.0, 5536.0, 5419.0, 5490.0, 5626.0, 5302.0, 5569.0, 5401.0, 5440.0, 5376.0, 5321.0, 5444.0, 5319.0, 5328.0, 5253.0, 5494.0, 5515.0, 5417.0, 5383.0, 5374.0, 5592.0, 5325.0, 5519.0, 5396.0, 5422.0, 5382.0, 5675.0, 5324.0, 5628.0, 5343.0, 5268.0, 5535.0, 5294.0, 5449.0, 5366.0, 5271.0, 5634.0, 5531.0, 5648.0, 5543.0, 5502.0, 5352.0, 5541.0, 5372.0, 5508.0, 5488.0, 5589.0, 5318.0, 5420.0, 5718.0, 5385.0, 5599.0, 5280.0 (number of hits: 6)
19	5580	9	1	333	1	5311.0, 5401.0, 5257.0, 5333.0, 5360.0, 5640.0, 5678.0, 5486.0, 5503.0, 5418.0, 5305.0, 5364.0, 5628.0, 5513.0, 5695.0, 5399.0, 5434.0, 5575.0, 5297.0, 5346.0, 5264.0, 5256.0, 5668.0, 5577.0, 5280.0, 5266.0, 5329.0, 5304.0, 5380.0, 5488.0, 5598.0, 5687.0, 5405.0, 5453.0, 5425.0, 5540.0, 5638.0, 5336.0, 5301.0, 5251.0, 5315.0, 5563.0, 5562.0, 5591.0, 5568.0, 5533.0, 5420.0, 5702.0, 5657.0, 5445.0, 5664.0, 5478.0, 5573.0, 5395.0, 5567.0, 5673.0, 5723.0, 5285.0, 5449.0, 5686.0, 5498.0, 5385.0, 5300.0, 5642.0, 5699.0, 5639.0, 5679.0, 5524.0, 5582.0, 5402.0, 5659.0, 5553.0, 5378.0, 5276.0, 5708.0, 5458.0, 5327.0, 5696.0, 5580.0, 5487.0, 5531.0, 5325.0, 5485.0, 5435.0, 5676.0, 5291.0, 5509.0, 5286.0, 5606.0, 5671.0, 5353.0, 5663.0, 5529.0, 5661.0, 5454.0, 5584.0, 5260.0, 5439.0, 5718.0, 5374.0 (number of hits: 9)
20	5580	9	1	333	1	5567.0, 5466.0, 5415.0, 5482.0, 5559.0, 5387.0, 5710.0, 5293.0, 5686.0, 5609.0, 5368.0, 5565.0, 5648.0, 5409.0, 5723.0, 5323.0, 5290.0, 5303.0, 5502.0, 5406.0, 5318.0, 5416.0, 5254.0, 5448.0, 5356.0, 5388.0, 5632.0, 5684.0, 5325.0, 5401.0, 5596.0, 5419.0, 5414.0, 5441.0, 5516.0, 5474.0, 5592.0, 5282.0, 5499.0, 5267.0, 5400.0, 5628.0, 5445.0, 5587.0, 5453.0, 5311.0, 5524.0, 5714.0, 5679.0, 5511.0, 5258.0, 5471.0, 5510.0, 5608.0, 5347.0, 5344.0, 5652.0, 5626.0, 5680.0, 5678.0, 5260.0, 5450.0, 5334.0, 5259.0, 5477.0, 5348.0, 5257.0, 5436.0, 5297.0, 5722.0, 5513.0, 5404.0, 5586.0, 5549.0, 5373.0,

						5650.0, 5403.0, 5569.0, 5435.0, 5618.0, 5548.0, 5651.0, 5693.0, 5455.0, 5551.0, 5683.0, 5685.0, 5370.0, 5487.0, 5456.0, 5515.0, 5512.0, 5691.0, 5484.0, 5720.0, 5360.0, 5468.0, 5319.0, 5454.0, 5423.0 (number of hits: 5)
21	5580	9	1	333	1	5432.0, 5654.0, 5602.0, 5540.0, 5319.0, 5466.0, 5260.0, 5381.0, 5318.0, 5259.0, 5646.0, 5556.0, 5282.0, 5553.0, 5322.0, 5275.0, 5558.0, 5670.0, 5312.0, 5300.0, 5510.0, 5623.0, 5456.0, 5538.0, 5461.0, 5612.0, 5528.0, 5256.0, 5671.0, 5625.0, 5589.0, 5449.0, 5468.0, 5581.0, 5576.0, 5516.0, 5586.0, 5515.0, 5452.0, 5325.0, 5547.0, 5531.0, 5647.0, 5514.0, 5393.0, 5285.0, 5399.0, 5371.0, 5665.0, 5476.0, 5673.0, 5439.0, 5436.0, 5535.0, 5722.0, 5382.0, 5384.0, 5281.0, 5279.0, 5527.0, 5627.0, 5678.0, 5418.0, 5342.0, 5536.0, 5643.0, 5620.0, 5321.0, 5351.0, 5521.0, 5441.0, 5420.0, 5251.0, 5566.0, 5544.0, 5594.0, 5698.0, 5397.0, 5700.0, 5717.0, 5674.0, 5482.0, 5427.0, 5370.0, 5502.0, 5562.0, 5579.0, 5705.0, 5633.0, 5435.0, 5662.0, 5652.0, 5413.0, 5529.0, 5422.0, 5369.0, 5689.0, 5486.0, 5284.0, 5392.0 (number of hits: 3)
22	5580	9	1	333	1	5511.0, 5321.0, 5500.0, 5626.0, 5279.0, 5452.0, 5522.0, 5306.0, 5557.0, 5699.0, 5360.0, 5682.0, 5439.0, 5455.0, 5498.0, 5280.0, 5254.0, 5601.0, 5615.0, 5331.0, 5723.0, 5389.0, 5644.0, 5546.0, 5650.0, 5724.0, 5424.0, 5429.0, 5647.0, 5359.0, 5577.0, 5684.0, 5529.0, 5570.0, 5440.0, 5459.0, 5554.0, 5255.0, 5420.0, 5470.0, 5474.0, 5513.0, 5467.0, 5693.0, 5642.0, 5585.0, 5341.0, 5471.0, 5464.0, 5537.0, 5564.0, 5639.0, 5408.0, 5542.0, 5305.0, 5356.0, 5609.0, 5388.0, 5443.0, 5707.0, 5683.0, 5548.0, 5701.0, 5524.0, 5560.0, 5677.0, 5340.0, 5558.0, 5641.0, 5569.0, 5658.0, 5528.0, 5337.0, 5553.0, 5487.0, 5265.0, 5396.0, 5507.0, 5401.0, 5690.0, 5670.0, 5346.0, 5457.0, 5260.0, 5392.0, 5473.0, 5531.0, 5338.0, 5698.0, 5444.0, 5509.0, 5397.0, 5580.0, 5466.0, 5451.0, 5662.0, 5519.0, 5581.0, 5394.0, 5671.0 (number of hits: 2)
23	5580	9	1	333	1	5606.0, 5683.0, 5448.0, 5293.0, 5691.0, 5371.0, 5673.0, 5575.0, 5262.0, 5705.0, 5324.0, 5331.0, 5684.0, 5381.0, 5451.0, 5320.0, 5558.0, 5671.0, 5629.0, 5285.0, 5259.0, 5723.0, 5342.0, 5300.0, 5617.0, 5528.0, 5557.0, 5348.0, 5330.0, 5648.0, 5264.0, 5273.0, 5416.0, 5522.0, 5457.0, 5379.0, 5530.0, 5651.0, 5321.0, 5255.0, 5724.0, 5661.0, 5589.0, 5627.0, 5298.0, 5489.0, 5355.0, 5584.0, 5550.0, 5460.0, 5251.0, 5450.0, 5536.0, 5469.0, 5406.0, 5579.0, 5567.0, 5591.0, 5483.0, 5455.0,

						5687.0, 5404.0, 5391.0, 5453.0, 5544.0, 5260.0, 5367.0, 5669.0, 5502.0, 5563.0, 5392.0, 5607.0, 5346.0, 5626.0, 5420.0, 5588.0, 5376.0, 5523.0, 5421.0, 5718.0, 5269.0, 5356.0, 5674.0, 5399.0, 5461.0, 5710.0, 5341.0, 5615.0, 5430.0, 5266.0, 5446.0, 5278.0, 5467.0, 5560.0, 5516.0, 5456.0, 5468.0, 5327.0, 5271.0, 5702.0 (number of hits: 4)
24	5580	9	1	333	1	5718.0, 5463.0, 5591.0, 5270.0, 5626.0, 5269.0, 5678.0, 5555.0, 5379.0, 5507.0, 5413.0, 5255.0, 5459.0, 5411.0, 5565.0, 5476.0, 5597.0, 5594.0, 5294.0, 5524.0, 5485.0, 5639.0, 5253.0, 5278.0, 5638.0, 5260.0, 5251.0, 5320.0, 5541.0, 5373.0, 5708.0, 5272.0, 5421.0, 5495.0, 5579.0, 5649.0, 5312.0, 5669.0, 5619.0, 5450.0, 5282.0, 5486.0, 5315.0, 5414.0, 5688.0, 5293.0, 5301.0, 5712.0, 5354.0, 5353.0, 5400.0, 5551.0, 5600.0, 5283.0, 5323.0, 5608.0, 5475.0, 5343.0, 5521.0, 5492.0, 5675.0, 5633.0, 5271.0, 5368.0, 5477.0, 5318.0, 5431.0, 5631.0, 5523.0, 5653.0, 5505.0, 5359.0, 5345.0, 5491.0, 5546.0, 5512.0, 5268.0, 5536.0, 5299.0, 5516.0, 5472.0, 5387.0, 5615.0, 5451.0, 5537.0, 5480.0, 5298.0, 5258.0, 5683.0, 5596.0, 5528.0, 5679.0, 5371.0, 5328.0, 5449.0, 5538.0, 5405.0, 5664.0, 5433.0, 5681.0 (number of hits: 6)
25	5580	9	1	333	1	5428.0, 5370.0, 5297.0, 5651.0, 5711.0, 5324.0, 5457.0, 5579.0, 5377.0, 5268.0, 5448.0, 5516.0, 5477.0, 5325.0, 5535.0, 5684.0, 5456.0, 5285.0, 5630.0, 5553.0, 5656.0, 5572.0, 5465.0, 5432.0, 5557.0, 5315.0, 5659.0, 5532.0, 5414.0, 5394.0, 5349.0, 5483.0, 5599.0, 5523.0, 5568.0, 5647.0, 5365.0, 5294.0, 5256.0, 5373.0, 5513.0, 5642.0, 5275.0, 5361.0, 5474.0, 5293.0, 5718.0, 5427.0, 5430.0, 5387.0, 5654.0, 5517.0, 5306.0, 5703.0, 5496.0, 5679.0, 5514.0, 5310.0, 5498.0, 5624.0, 5454.0, 5334.0, 5504.0, 5468.0, 5575.0, 5590.0, 5402.0, 5399.0, 5321.0, 5716.0, 5676.0, 5299.0, 5450.0, 5328.0, 5409.0, 5383.0, 5478.0, 5283.0, 5722.0, 5608.0, 5329.0, 5713.0, 5381.0, 5433.0, 5527.0, 5650.0, 5555.0, 5252.0, 5295.0, 5585.0, 5489.0, 5617.0, 5421.0, 5592.0, 5305.0, 5634.0, 5481.0, 5601.0, 5274.0, 5382.0 (number of hits: 9)
26	5580	9	1	333	1	5527.0, 5427.0, 5601.0, 5448.0, 5611.0, 5536.0, 5686.0, 5310.0, 5398.0, 5393.0, 5465.0, 5597.0, 5618.0, 5485.0, 5309.0, 5319.0, 5512.0, 5669.0, 5698.0, 5470.0, 5333.0, 5603.0, 5546.0, 5445.0, 5461.0, 5614.0, 5548.0, 5708.0, 5496.0, 5500.0, 5540.0, 5608.0, 5462.0, 5356.0, 5517.0, 5273.0, 5672.0, 5652.0, 5431.0, 5584.0, 5707.0, 5400.0, 5633.0, 5619.0, 5649.0,

						5685.0, 5307.0, 5410.0, 5452.0, 5372.0, 5659.0, 5365.0, 5632.0, 5457.0, 5287.0, 5464.0, 5582.0, 5579.0, 5705.0, 5278.0, 5419.0, 5487.0, 5638.0, 5441.0, 5689.0, 5250.0, 5296.0, 5363.0, 5260.0, 5293.0, 5449.0, 5650.0, 5544.0, 5695.0, 5520.0, 5687.0, 5653.0, 5429.0, 5576.0, 5437.0, 5539.0, 5530.0, 5430.0, 5602.0, 5549.0, 5346.0, 5547.0, 5328.0, 5508.0, 5428.0, 5291.0, 5696.0, 5515.0, 5458.0, 5469.0, 5286.0, 5542.0, 5566.0, 5639.0, 5709.0 (number of hits: 8)
27	5580	9	1	333	1	5349.0, 5551.0, 5495.0, 5305.0, 5345.0, 5719.0, 5280.0, 5715.0, 5273.0, 5250.0, 5621.0, 5303.0, 5326.0, 5446.0, 5271.0, 5302.0, 5355.0, 5586.0, 5404.0, 5470.0, 5665.0, 5591.0, 5622.0, 5284.0, 5330.0, 5584.0, 5502.0, 5670.0, 5258.0, 5515.0, 5532.0, 5562.0, 5422.0, 5712.0, 5703.0, 5477.0, 5416.0, 5511.0, 5544.0, 5293.0, 5543.0, 5265.0, 5546.0, 5588.0, 5327.0, 5441.0, 5716.0, 5561.0, 5679.0, 5380.0, 5403.0, 5638.0, 5661.0, 5415.0, 5550.0, 5257.0, 5619.0, 5674.0, 5523.0, 5499.0, 5625.0, 5721.0, 5693.0, 5507.0, 5595.0, 5644.0, 5590.0, 5569.0, 5411.0, 5493.0, 5437.0, 5360.0, 5372.0, 5432.0, 5292.0, 5607.0, 5655.0, 5457.0, 5617.0, 5608.0, 5419.0, 5307.0, 5395.0, 5632.0, 5654.0, 5545.0, 5671.0, 5450.0, 5701.0, 5420.0, 5613.0, 5362.0, 5694.0, 5598.0, 5624.0, 5611.0, 5294.0, 5684.0, 5466.0, 5434.0 (number of hits: 7)
28	5580	9	1	333	1	5259.0, 5609.0, 5722.0, 5520.0, 5658.0, 5348.0, 5387.0, 5486.0, 5660.0, 5515.0, 5292.0, 5484.0, 5268.0, 5334.0, 5522.0, 5547.0, 5638.0, 5600.0, 5439.0, 5679.0, 5681.0, 5488.0, 5700.0, 5478.0, 5374.0, 5299.0, 5674.0, 5518.0, 5257.0, 5265.0, 5285.0, 5539.0, 5383.0, 5408.0, 5432.0, 5492.0, 5289.0, 5577.0, 5597.0, 5574.0, 5416.0, 5489.0, 5516.0, 5508.0, 5438.0, 5579.0, 5389.0, 5483.0, 5573.0, 5652.0, 5535.0, 5672.0, 5392.0, 5505.0, 5578.0, 5656.0, 5607.0, 5261.0, 5352.0, 5709.0, 5322.0, 5298.0, 5469.0, 5306.0, 5434.0, 5636.0, 5284.0, 5286.0, 5685.0, 5480.0, 5506.0, 5589.0, 5376.0, 5317.0, 5691.0, 5330.0, 5367.0, 5534.0, 5477.0, 5557.0, 5511.0, 5466.0, 5406.0, 5465.0, 5697.0, 5256.0, 5706.0, 5287.0, 5331.0, 5460.0, 5631.0, 5454.0, 5665.0, 5343.0, 5462.0, 5314.0, 5648.0, 5288.0, 5676.0, 5329.0 (number of hits: 10)
29	5580	9	1	333	1	5501.0, 5558.0, 5650.0, 5585.0, 5509.0, 5363.0, 5397.0, 5559.0, 5563.0, 5593.0, 5331.0, 5637.0, 5261.0, 5507.0, 5511.0, 5306.0, 5271.0, 5469.0, 5477.0, 5402.0, 5588.0, 5618.0, 5441.0, 5715.0, 5675.0, 5383.0, 5367.0, 5362.0, 5494.0, 5485.0,

						5251.0, 5273.0, 5634.0, 5268.0, 5398.0, 5719.0, 5483.0, 5416.0, 5498.0, 5378.0, 5533.0, 5285.0, 5352.0, 5445.0, 5626.0, 5686.0, 5552.0, 5439.0, 5350.0, 5287.0, 5393.0, 5274.0, 5557.0, 5299.0, 5410.0, 5262.0, 5484.0, 5656.0, 5685.0, 5708.0, 5348.0, 5630.0, 5386.0, 5332.0, 5690.0, 5591.0, 5617.0, 5342.0, 5711.0, 5562.0, 5679.0, 5510.0, 5338.0, 5418.0, 5595.0, 5334.0, 5694.0, 5421.0, 5450.0, 5525.0, 5376.0, 5506.0, 5692.0, 5572.0, 5542.0, 5337.0, 5456.0, 5660.0, 5534.0, 5515.0, 5554.0, 5411.0, 5645.0, 5526.0, 5267.0, 5394.0, 5419.0, 5613.0, 5288.0, 5360.0 (number of hits: 5)
30	5580	9	1	333	1	5485.0, 5566.0, 5643.0, 5676.0, 5555.0, 5269.0, 5598.0, 5550.0, 5531.0, 5638.0, 5541.0, 5563.0, 5588.0, 5387.0, 5580.0, 5375.0, 5473.0, 5457.0, 5327.0, 5570.0, 5260.0, 5421.0, 5702.0, 5571.0, 5673.0, 5423.0, 5534.0, 5252.0, 5422.0, 5329.0, 5425.0, 5467.0, 5306.0, 5639.0, 5433.0, 5357.0, 5596.0, 5456.0, 5328.0, 5499.0, 5505.0, 5308.0, 5348.0, 5619.0, 5264.0, 5637.0, 5396.0, 5442.0, 5544.0, 5542.0, 5622.0, 5389.0, 5333.0, 5528.0, 5403.0, 5415.0, 5453.0, 5332.0, 5273.0, 5634.0, 5450.0, 5323.0, 5480.0, 5344.0, 5710.0, 5330.0, 5685.0, 5342.0, 5476.0, 5486.0, 5616.0, 5462.0, 5369.0, 5521.0, 5461.0, 5721.0, 5336.0, 5385.0, 5595.0, 5723.0, 5683.0, 5497.0, 5350.0, 5539.0, 5610.0, 5281.0, 5274.0, 5468.0, 5537.0, 5474.0, 5447.0, 5567.0, 5337.0, 5701.0, 5397.0, 5640.0, 5582.0, 5607.0, 5438.0, 5560.0 (number of hits: 2)

5270 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	96.7 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate (Type1 to 4)	120	95.825 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5270 MHz, 40 MHz Bandwidth**Table-1 Radar Type 1 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	18	1	1428	1
2	5270	18	1	1428	1
3	5270	18	1	1428	1
4	5270	18	1	1428	1
5	5270	18	1	1428	1
6	5270	18	1	1428	1
7	5270	18	1	1428	1
8	5270	18	1	1428	1
9	5270	18	1	1428	1
10	5270	18	1	1428	1
11	5270	18	1	1428	1
12	5270	18	1	1428	1
13	5270	18	1	1428	1
14	5270	18	1	1428	1
15	5270	18	1	1428	1
16	5270	18	1	1428	1
17	5270	18	1	1428	1
18	5270	18	1	1428	1
19	5270	18	1	1428	1
20	5270	18	1	1428	1
21	5270	18	1	1428	1
22	5270	18	1	1428	1
23	5270	18	1	1428	1
24	5270	18	1	1428	1
25	5270	18	1	1428	1
26	5270	18	1	1428	1
27	5270	18	1	1428	1
28	5270	18	1	1428	1
29	5270	18	1	1428	1
30	5270	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	5270	26	3.8	217	1
2	5270	24	2.2	176	1
3	5270	25	4.8	218	1
4	5270	28	1.1	227	1
5	5270	26	2.5	160	1
6	5270	26	2	150	1
7	5270	23	1.8	224	1
8	5270	26	2.9	214	1
9	5270	29	3.3	195	1
10	5270	24	3	229	1
11	5270	23	3.9	193	1
12	5270	28	4.2	158	1
13	5270	27	3.7	211	1
14	5270	29	1	165	1
15	5270	28	3.5	185	1
16	5270	23	1.2	226	1
17	5270	29	1	166	1
18	5270	23	2.5	219	1
19	5270	29	4.8	221	1
20	5270	25	2.7	188	1
21	5270	27	3	182	1
22	5270	28	3.4	166	1
23	5270	28	4.1	179	1
24	5270	29	1.8	167	1
25	5270	24	4.1	160	1
26	5270	24	3.6	157	1
27	5270	26	2.6	176	1
28	5270	24	2.9	191	1
29	5270	26	4.1	161	0
30	5270	24	1	184	1
Detection Percentage: 96.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	18	6.5	229	1
2	5270	16	7.3	245	1
3	5270	18	8.4	375	1
4	5270	18	9.8	215	1
5	5270	17	7.5	315	1
6	5270	17	6.3	264	1
7	5270	18	8.3	223	1
8	5270	16	6.6	367	1
9	5270	18	6.8	328	1
10	5270	18	6.4	209	1
11	5270	18	6.8	401	0
12	5270	16	7.4	285	1
13	5270	18	6.4	286	1
14	5270	17	8.6	412	1
15	5270	18	9.6	236	1
16	5270	17	6.3	421	0
17	5270	18	8.3	256	1
18	5270	18	7.5	452	1
19	5270	16	7.5	214	1
20	5270	16	6	435	1
21	5270	16	6.6	330	1
22	5270	18	7.2	443	1
23	5270	18	6.3	316	1
24	5270	16	9.3	323	1
25	5270	18	9.2	400	1
26	5270	18	8.6	488	1
27	5270	16	7.4	431	1
28	5270	18	6.2	483	1
29	5270	17	9.1	352	1
30	5270	18	9	384	1
Detection Percentage: 93.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	13	20	350	1
2	5270	12	11.1	369	1
3	5270	16	14.7	481	1
4	5270	15	17.8	239	1
5	5270	15	17.4	427	1
6	5270	14	14.7	344	1
7	5270	16	18.5	425	1
8	5270	14	13	461	1
9	5270	15	17.2	217	1
10	5270	15	12.9	224	1
11	5270	13	12.2	399	1
12	5270	15	13.1	368	1
13	5270	12	12.6	432	0
14	5270	16	17	324	1
15	5270	13	18.6	378	1
16	5270	13	13.2	298	1
17	5270	12	12.7	295	1
18	5270	12	12.7	335	1
19	5270	12	11.1	444	1
20	5270	14	18.3	476	1
21	5270	16	12.9	327	1
22	5270	15	14.1	422	1
23	5270	13	15.7	330	1
24	5270	13	13.4	405	1
25	5270	12	18	467	1
26	5270	16	12.9	433	0
27	5270	15	18.6	270	1
28	5270	16	14.4	477	1
29	5270	12	12.4	414	1
30	5270	13	16.4	471	1
Detection Percentage: 93.3 % (>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	8	75.6			0.041688	1
1	3	10	91.2	1049	1540	1.182514	
2	2	6	99.7	1952		2.01834	
3	3	7	58.2	1965	1039	3.507112	
4	2	8	62.5	1884		3.804377	
5	2	5	55.9	1043		4.847593	
6	3	17	52	1480	1185	6.073548	
7	2	18	93.5	1935		6.674699	
8	2	8	95.6	1458		7.42856	
9	1	12	77.7			8.974367	
10	2	15	58.6	1293		9.632926	
11	2	17	53.1	1657		10.438803	
12	2	14	94.5	1044		11.472904	

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	18	82.2			0.214102	1
1	1	17	84.7			1.101428	
2	2	7	52.8	1031		1.829425	
3	3	5	74.4	1673	1865	2.495398	
4	2	20	63.3	1049		3.464156	
5	2	19	73.2	1958		4.470027	
6	2	7	83	1349		5.070531	
7	2	14	84.9	1280		5.962051	
8	2	5	88.8	1702		6.30684	
9	2	20	99	1500		6.888429	
10	2	12	60.8	1321		8.165031	
11	2	6	80.7	1479		8.942634	
12	2	11	86.5	1541		9.197134	
13	3	11	57.9	1709	1557	9.999406	
14	2	8	66.8	1154		10.862828	
15	3	9	92.6	1799	1306	11.92196	

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	10	73.1			0.535549	1
1	2	7	97.2	1907		1.632622	
2	3	20	78.6	1777	1577	1.848505	
3	1	20	96.3			3.311657	
4	2	8	90.7	1271		3.898851	
5	2	6	62.2	1465		4.429069	
6	2	8	55.6	1218		5.868799	
7	2	8	55.3	1227		6.814547	
8	1	16	71.7			7.587083	
9	1	17	61.4			8.262869	
10	2	9	85	1120		8.653752	
11	2	11	57.7	1895		10.175877	
12	2	7	63.3	1932		11.085478	
13	3	15	99.2	1380	1790	11.196412	

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	10	51.1	1397	1414	0.453658	1
1	3	12	81.5	1823	1064	0.712877	
2	1	19	83.1			1.701103	
3	1	17	62.4			2.32009	
4	2	14	69.3	1593		2.539393	
5	2	16	69.3	1950		3.768071	
6	2	8	74	1361		4.370653	
7	2	17	77.2	1102		4.680977	
8	2	15	55.8	1969		5.343058	
9	3	15	81.3	1490	1960	6.281918	
10	1	10	53			6.342481	
11	2	12	85.6	1880		7.216669	
12	2	9	95.4	1232		7.911261	
13	3	8	52.8	1149	1405	8.233338	
14	1	13	95.8			9.162464	
15	2	7	93.2	1408		9.726361	
16	3	16	61	1958	1007	10.159	
17	2	15	78	1830		10.879774	
18	2	9	61	1570		11.534305	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	69.6	1311	1966	0.266625	1
1	2	10	98.9	1720		1.181629	
2	1	9	87.8			1.98153	
3	2	15	77	1724		2.976303	
4	3	12	86	1602	1006	3.213021	
5	1	7	67.7			4.598805	
6	3	8	64	1790	1825	5.408105	
7	2	18	70.5	1931		5.704609	
8	1	18	52			7.153139	
9	2	19	53.8	1435		7.378787	
10	2	8	59.2	1635		8.521204	
11	1	9	61.2			9.190888	
12	1	18	50.8			9.857804	
13	3	12	71.2	1394	1442	10.467976	
14	3	16	97.4	1205	1343	11.987559	

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	78.4	1535	1415	1.007481	1
1	3	15	58.9	1585	1645	1.988063	
2	2	10	80.6	1587		2.706145	
3	2	20	79.2	1568		3.905604	
4	2	20	98.5	1455		5.293278	
5	1	17	84.1			7.031004	
6	1	19	53.9			7.322107	
7	3	19	63.9	1994	1663	8.510185	
8	2	18	87.7	1336		10.398727	
9	2	7	73.1	1930		11.855141	

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	13	61	1517		0.734176	1
1	1	16	63.7			1.171114	
2	2	10	53.1	1205		1.759523	
3	1	16	51.4			3.355686	
4	2	18	89.5	1288		3.860124	
5	2	10	89.2	1520		4.352784	
6	2	13	85.8	1496		5.465335	
7	2	10	97.3	1477		6.384803	
8	1	8	88			7.091825	
9	1	19	86.1			8.412683	
10	1	10	60.4			8.993198	
11	3	16	95.8	1192	1108	9.698051	
12	2	15	87.1	1493		10.308653	
13	2	19	69.4	1606		11.893185	

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	19	81.4	1475	1723	0.514365	1
1	1	15	72			1.164292	
2	2	13	71.5	1475		1.787387	
3	1	13	50.8			2.927796	
4	2	10	56.5	1530		3.838679	
5	3	8	89.7	1094	1165	4.427804	
6	2	7	96.8	1798		5.435359	
7	3	20	74.9	1548	1632	5.803362	
8	2	17	93.6	1383		6.41664	
9	3	9	53.5	1371	1916	7.223338	
10	2	6	88.1	1945		8.457773	
11	2	16	82.6	1663		9.449166	
12	2	7	69.5	1510		9.765617	
13	2	18	71	1799		10.525925	
14	3	13	94.9	1103	1424	11.835647	

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	20	69.8	1769		0.132551	1
1	1	14	67.6			2.135812	
2	3	14	97.9	1748	1915	3.064264	
3	2	7	66.1	1847		4.851315	
4	2	7	87.3	1392		6.26499	
5	1	9	59.6			6.746013	
6	2	6	52.5	1964		8.004594	
7	2	20	61.7	1222		9.567868	
8	1	12	56.6			10.774593	

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	9	83.5	1584		0.384375	1
1	3	17	60.9	1030	1755	1.068677	
2	2	10	70.1	1746		2.398256	
3	2	14	70.1	1995		3.481205	
4	2	16	61.8	1082		4.359487	
5	2	14	73.7	1896		5.07172	
6	3	12	61.1	1944	1047	5.599951	
7	2	9	58.1	1950		7.192301	
8	1	20	65.4			7.73062	
9	2	7	55.6	1782		9.111038	
10	1	20	71.3			9.348008	
11	2	6	84.6	1429		10.614403	
12	2	14	98	1314		11.71997	

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	8	66.2	1270	1211	0.59502	1
1	2	8	62.7	1820		1.641142	
2	1	8	99			2.852851	
3	2	14	97.4	1884		4.376465	
4	1	9	83.7			4.90671	
5	1	13	70.8			6.218123	
6	1	16	78.2			8.307208	
7	2	17	72	1953		9.383805	
8	2	10	74	1320		10.102663	
9	2	8	68.5	1702		11.655625	

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	11	54.9			0.473667	1
1	2	11	57.6	1911		1.117186	
2	3	18	50.6	1932	1473	2.246299	
3	2	19	83.9	1793		3.874446	
4	2	11	61.7	1299		4.590057	
5	1	8	74			5.849853	
6	1	9	52.5			6.667748	
7	2	10	86.2	1137		7.720845	
8	1	6	56.5			8.911213	
9	2	10	96.8	1888		9.835254	
10	3	10	54.2	1899	1224	10.33662	
11	1	16	72.9			11.491435	

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	17	56.5	1120		0.591167	1
1	1	19	99.3			0.712292	
2	2	19	80.1	1151		1.384767	
3	3	9	51.9	1177	1703	2.584368	
4	2	10	94.4	1525		2.702509	
5	3	9	80.7	1294	1682	3.905149	
6	3	9	89.4	1080	1577	4.511417	
7	2	19	73.3	1998		5.171071	
8	3	14	73.7	1682	1439	5.542795	
9	3	8	58.3	1254	1584	6.114985	
10	2	19	89.4	1381		7.214923	
11	2	10	81.3	1197		7.940236	
12	1	11	50.7			8.236266	
13	2	20	68.3	1218		8.821147	
14	2	14	81.5	1835		9.8562	
15	2	12	92.4	1980		10.612399	
16	3	18	98.3	1237	1592	11.029567	
17	3	15	94.7	1570	1554	11.552395	

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	19	50.2	1396		0.254996	1
1	2	14	86.6	1721		0.809149	
2	2	5	93.5	1522		1.39714	
3	2	15	94.3	1786		2.42603	
4	3	19	61.6	1592	1628	2.87884	
5	2	18	69.7	1958		3.668517	
6	2	20	66.9	1298		3.840787	
7	1	7	82.5			4.423018	
8	1	15	77			5.421408	
9	1	10	69.9			6.15047	
10	2	11	52.9	1771		6.317423	
11	2	13	50.9	1472		7.26329	
12	2	19	97.2	1556		7.813241	
13	3	8	51.6	1423	1862	8.59315	
14	1	8	92.3			9.193286	
15	1	13	78.2			10.026359	
16	1	8	99.1			10.275559	
17	2	10	65.6	1871		11.021477	
18	2	14	55.1	1086		11.376405	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	52.1	1139		0.131537	1
1	2	10	96.4	1317		1.117122	
2	1	15	53.8			1.610927	
3	2	13	92.2	1980		2.707338	
4	2	16	64.5	1901		3.607178	
5	1	17	63			4.362261	
6	1	18	62.4			5.232696	
7	3	14	63.2	1837	1482	5.864842	
8	2	7	80.3	1935		6.055692	
9	2	5	84.1	1686		7.127533	
10	2	13	89.6	1283		8.083191	
11	2	14	87.9	1905		8.329554	
12	1	8	80.4			9.14785	
13	2	19	84.8	1967		9.943719	
14	3	6	58.9	1712	1354	11.003755	
15	3	10	95	1401	1079	11.801335	

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	52.7	1978		0.021186	1
1	2	15	85.3	1875		0.967706	
2	2	15	87.1	1190		1.849928	
3	2	17	86.6	1634		2.072169	
4	3	18	52.9	1796	1422	3.066555	
5	2	18	83.3	1080		3.845536	
6	2	17	83	1289		4.622237	
7	3	13	95.8	1431	1024	4.89495	
8	3	18	59.4	1092	1942	5.972675	
9	3	14	92.7	1063	1639	6.023829	
10	2	6	53.4	1843		6.975465	
11	2	18	70.2	1058		7.589983	
12	2	11	56.9	1138		8.308527	
13	2	10	83	1308		9.092736	
14	3	8	89.5	1967	1684	9.943118	
15	2	14	82.1	1284		10.627951	
16	2	10	81.6	1949		11.124413	
17	2	9	91.8	1270		11.826001	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	92.5			0.194567	1
1	2	10	88.5	1963		1.120965	
2	1	18	61.6			1.542861	
3	2	15	90.2	1710		2.28968	
4	2	18	72.3	1110		3.064952	
5	2	7	97.7	1729		3.683354	
6	1	7	53.7			4.285752	
7	2	17	65	1697		4.898131	
8	2	16	88.3	1523		5.982902	
9	2	6	56.1	1338		6.374112	
10	3	10	71.1	1839	1369	7.220609	
11	1	5	98.4			7.342199	
12	3	5	67.2	1873	1412	8.130104	
13	3	16	84.5	1092	1153	9.078746	
14	3	15	99.6	1118	1744	9.460041	
15	2	8	65.3	1618		10.125359	
16	1	11	73.4			10.978698	
17	1	10	66.2			11.816926	

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	88.3	1357	1391	0.06943	1
1	2	13	79.4	1053		1.585669	
2	3	11	96.7	1255	1676	3.223887	
3	3	11	75.8	1614	1634	4.144558	
4	1	15	58.9			4.835777	
5	1	8	81.3			5.633957	
6	2	8	72.2	1447		7.132144	
7	3	5	64.2	1512	1173	8.662011	
8	2	9	53.4	1887		9.013686	
9	2	8	99.8	1110		10.07713	
10	2	15	64.8	1007		11.593493	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	72			0.665365	1
1	1	10	97.9			1.378	
2	2	12	50.3	1395		2.73649	
3	3	9	56.1	1643	1141	3.742116	
4	2	17	91.6	1750		4.646815	
5	2	11	89.8	1653		5.093549	
6	1	14	85.9			6.67834	
7	3	15	90	1963	1342	7.554192	
8	2	16	82.4	1957		8.981199	
9	2	13	61.3	1372		9.033149	
10	3	20	59.6	1977	1133	10.098005	
11	1	20	81			11.045831	

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	7	72.5	1918		0.183527	1
1	2	11	80.6	1895		1.78083	
2	1	19	89.4			2.111319	
3	3	12	96.3	1566	1239	3.269545	
4	3	13	81.4	1172	1036	4.350264	
5	1	12	69.2			5.298593	
6	2	12	76.2	1187		5.911766	
7	2	6	94.4	1124		6.878894	
8	2	7	92.1	1379		7.877174	
9	3	19	86.1	1986	1504	9.088109	
10	3	14	69.3	1800	1822	9.9178	
11	2	10	76.5	1063		10.834128	
12	3	14	57.8	1882	1798	11.618944	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	56.9	1888		0.54184	1
1	2	18	65.2	1621		1.19663	
2	3	19	56.8	1161	1879	1.292994	
3	3	15	95.2	1797	1451	2.127749	
4	2	14	80.5	1705		2.89444	
5	3	9	50.8	1081	1103	3.4687	
6	1	8	98.3			3.901862	
7	2	9	91	1055		4.496633	
8	1	17	60.3			5.446186	
9	3	14	63.8	1099	1841	6.117454	
10	1	18	95.1			6.713737	
11	2	9	67.7	1872		7.326999	
12	2	8	99.5	1844		7.946876	
13	1	14	87.6			8.746309	
14	3	7	68.6	1227	1142	9.381337	
15	2	14	82.1	1716		9.79891	
16	1	8	52			10.370642	
17	1	15	92.2			11.051104	
18	1	7	69.8			11.63259	

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	17	90.3	1415	1486	0.853438	1
1	1	12	82.8			1.256505	
2	2	9	75.1	1388		3.443915	
3	2	16	87.8	1453		3.824323	
4	3	18	79.4	1097	1183	5.786538	
5	3	17	71.8	1216	1047	7.124079	
6	3	10	66.1	1219	1458	8.363181	
7	2	11	74	1143		8.64573	
8	2	20	68.4	1628		10.716409	
9	3	19	89.2	1449	1672	10.85351	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	56	1735		0.355483	1
1	1	10	69.6			1.725029	
2	1	17	61.2			2.035932	
3	2	10	69.2	1058		3.835966	
4	2	20	60.5	1668		4.404764	
5	2	19	70.1	1173		5.62072	
6	1	15	50.5			6.319559	
7	2	17	52.2	1740		7.589635	
8	2	19	94.5	1617		8.613835	
9	2	7	67.9	1556		9.954594	
10	3	9	58.5	1215	1899	10.629817	
11	1	5	66.8			11.389901	

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	11	74.4			0.329943	1
1	2	16	91.9	1082		1.109658	
2	2	18	64	1920		3.210899	
3	2	9	72.8	1036		3.908752	
4	2	15	99.3	1127		4.930417	
5	3	10	88.3	1709	1568	5.765277	
6	1	8	51			6.7314	
7	1	10	90.8			8.513298	
8	2	9	94	1837		8.72755	
9	3	19	71.5	1382	1022	10.671277	
10	1	15	63.8			11.301046	

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	6	90.7			0.02579	1
1	2	9	98.1	1489		1.044568	
2	1	12	83.1			1.620558	
3	1	7	62.2			2.519858	
4	2	16	98.9	1560		3.537889	
5	2	7	94.6	1884		4.296057	
6	2	7	90.5	1885		5.141539	
7	2	12	79.9	1577		5.911495	
8	3	17	95.2	1961	1148	7.015392	
9	1	7	64			7.818742	
10	2	16	70.9	1404		8.368904	
11	2	18	59.5	1363		9.114175	
12	2	20	62.7	1746		10.191869	
13	2	10	84.7	1926		10.515205	
14	2	15	63.1	1644		11.741887	

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	10	61.3	1581		0.965276	1
1	2	10	93.7	1258		1.779315	
2	2	12	72.9	1563		3.435161	
3	2	14	71.6	1766		3.71996	
4	2	14	75.6	1706		5.179008	
5	3	20	94.8	1271	1929	6.897967	
6	2	7	99.5	1315		7.426441	
7	2	17	99	1649		8.698007	
8	2	12	94.4	1498		10.295532	
9	3	17	67.7	1664	1467	11.416354	

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	10	72.2	1360		0.903756	1
1	2	8	90.1	1487		1.079869	
2	3	15	52.5	1336	1976	1.89078	
3	1	20	57.6			2.956642	
4	1	9	74.7			3.875001	
5	2	16	71.8	1382		4.846133	
6	3	16	51.3	1483	1029	6.307268	
7	1	19	75			7.380777	
8	2	6	69.8	1694		8.270043	
9	1	17	70.3			8.610016	
10	2	11	74.6	1795		10.091775	
11	2	19	58.8	1337		10.980243	
12	3	20	73.3	1220	1741	11.652177	

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	17	82.8	1852		0.145101	1
1	2	19	56.2	1729		0.97345	
2	2	8	58.4	1403		1.433004	
3	1	12	53.6			2.294289	
4	2	19	51	1606		3.210139	
5	3	16	68.5	1373	1538	4.138091	
6	3	9	58.7	1369	1309	4.823348	
7	3	15	77.2	1534	1935	5.100093	
8	3	13	71.6	1417	1974	5.909314	
9	2	15	80.3	1055		6.880701	
10	1	16	87.8			7.521722	
11	2	16	96.7	1994		8.127831	
12	3	16	55.9	1155	1235	9.121335	
13	3	19	90.5	1791	1630	9.71671	
14	1	14	55.8			10.070616	
15	2	19	96.6	1380		10.657389	
16	2	12	57.7	1595		11.380592	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	74.7	1010		0.785661	1
1	3	18	83.8	1048	1641	1.194024	
2	2	19	87.9	1428		3.150666	
3	2	13	80.4	1261		3.596861	
4	2	16	56.7	1762		5.237273	
5	1	16	81.5			6.064681	
6	2	19	99.3	1412		6.822987	
7	3	9	58.4	1700	1884	7.691659	
8	2	14	52	1745		8.781075	
9	2	19	68.1	1850		10.706899	
10	3	16	66.4	1291	1027	10.951655	

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	18	61.5	1807		0.200859	1
1	2	10	53	1380		0.928142	
2	3	8	62	1376	1758	1.494619	
3	3	17	97.7	1558	1007	2.390287	
4	2	9	93.3	1116		3.030927	
5	1	9	59.8			3.577608	
6	1	6	94.9			4.223719	
7	2	12	55	1987		5.227451	
8	3	19	56.4	1856	1204	5.5783	
9	1	10	83.6			6.459566	
10	1	19	78			6.733005	
11	2	17	61.6	1510		7.839441	
12	3	19	63.7	1270	1585	8.10722	
13	3	7	77.1	1534	1382	9.04563	
14	3	17	71.3	1368	1378	9.837782	
15	2	9	90.1	1159		10.228262	
16	2	5	90.4	1967		11.132797	
17	2	19	63.7	1690		11.846074	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5270	9	1	333	1	5522.0, 5278.0, 5311.0, 5285.0, 5411.0, 5559.0, 5706.0, 5510.0, 5577.0, 5399.0, 5441.0, 5438.0, 5482.0, 5380.0, 5487.0, 5564.0, 5439.0, 5406.0, 5408.0, 5684.0, 5321.0, 5271.0, 5503.0, 5336.0, 5534.0, 5520.0, 5410.0, 5385.0, 5373.0, 5386.0, 5467.0, 5470.0, 5346.0, 5469.0, 5272.0, 5461.0, 5451.0, 5509.0, 5642.0, 5500.0, 5700.0, 5330.0, 5539.0, 5712.0, 5657.0, 5314.0, 5501.0, 5686.0, 5372.0, 5375.0, 5720.0, 5601.0, 5269.0, 5533.0, 5610.0, 5356.0, 5384.0, 5348.0, 5694.0, 5598.0, 5433.0, 5531.0, 5295.0, 5528.0, 5649.0, 5592.0, 5391.0, 5337.0, 5471.0, 5535.0, 5315.0, 5678.0, 5289.0, 5570.0, 5549.0, 5655.0, 5389.0, 5676.0, 5548.0, 5499.0, 5339.0, 5616.0, 5312.0, 5607.0, 5291.0, 5675.0, 5454.0, 5661.0, 5689.0, 5489.0, 5435.0, 5282.0, 5530.0, 5596.0, 5711.0, 5450.0, 5477.0, 5677.0, 5463.0, 5307.0 (number of hits: 8)
2	5270	9	1	333	1	5522.0, 5318.0, 5466.0, 5490.0, 5321.0, 5524.0, 5605.0, 5336.0, 5372.0, 5582.0, 5397.0, 5599.0, 5468.0, 5295.0, 5470.0, 5258.0, 5369.0, 5311.0, 5535.0, 5532.0, 5617.0, 5251.0, 5290.0, 5665.0, 5511.0, 5429.0, 5514.0, 5341.0, 5529.0, 5548.0, 5422.0, 5707.0, 5601.0, 5495.0, 5609.0, 5396.0, 5611.0, 5437.0, 5578.0, 5339.0, 5694.0, 5278.0, 5306.0, 5350.0, 5443.0, 5493.0, 5399.0, 5568.0, 5463.0, 5515.0, 5452.0, 5623.0, 5302.0, 5444.0, 5352.0, 5355.0, 5581.0, 5347.0, 5577.0, 5549.0, 5398.0, 5368.0, 5403.0, 5519.0, 5520.0, 5366.0, 5552.0, 5294.0, 5647.0, 5378.0, 5625.0, 5566.0, 5329.0, 5465.0, 5428.0, 5307.0, 5406.0, 5714.0, 5303.0, 5708.0, 5257.0, 5510.0, 5300.0, 5670.0, 5551.0, 5476.0, 5427.0, 5256.0, 5354.0, 5627.0, 5390.0, 5713.0, 5610.0, 5460.0, 5674.0, 5533.0, 5673.0, 5644.0, 5250.0, 5393.0 (number of hits: 9)
3	5270	9	1	333	1	5483.0, 5302.0, 5439.0, 5535.0, 5254.0, 5713.0, 5436.0, 5393.0, 5611.0, 5490.0, 5465.0, 5700.0, 5250.0, 5711.0, 5496.0, 5253.0, 5452.0, 5358.0, 5381.0, 5389.0, 5670.0, 5479.0, 5650.0, 5337.0, 5346.0, 5304.0, 5263.0, 5544.0, 5456.0, 5628.0, 5441.0, 5502.0, 5683.0, 5706.0, 5667.0, 5620.0, 5653.0, 5723.0, 5693.0, 5523.0, 5344.0, 5594.0, 5520.0, 5418.0, 5716.0, 5576.0, 5610.0, 5678.0, 5473.0, 5663.0, 5365.0, 5635.0, 5562.0, 5273.0, 5703.0, 5629.0, 5310.0, 5621.0, 5297.0, 5592.0,

						5251.0, 5630.0, 5252.0, 5322.0, 5266.0, 5276.0, 5632.0, 5314.0, 5387.0, 5540.0, 5354.0, 5474.0, 5647.0, 5378.0, 5450.0, 5286.0, 5612.0, 5325.0, 5414.0, 5602.0, 5508.0, 5278.0, 5260.0, 5607.0, 5691.0, 5567.0, 5406.0, 5565.0, 5408.0, 5563.0, 5462.0, 5392.0, 5697.0, 5332.0, 5446.0, 5288.0, 5419.0, 5338.0, 5507.0, 5330.0 (number of hits: 7)
4	5270	9	1	333	1	5592.0, 5431.0, 5561.0, 5412.0, 5435.0, 5287.0, 5439.0, 5402.0, 5264.0, 5365.0, 5544.0, 5269.0, 5363.0, 5270.0, 5567.0, 5596.0, 5283.0, 5301.0, 5554.0, 5578.0, 5316.0, 5508.0, 5347.0, 5514.0, 5717.0, 5410.0, 5490.0, 5718.0, 5300.0, 5344.0, 5441.0, 5499.0, 5640.0, 5313.0, 5609.0, 5709.0, 5590.0, 5506.0, 5405.0, 5326.0, 5704.0, 5367.0, 5589.0, 5600.0, 5474.0, 5650.0, 5671.0, 5322.0, 5397.0, 5339.0, 5579.0, 5273.0, 5377.0, 5401.0, 5423.0, 5526.0, 5586.0, 5489.0, 5576.0, 5641.0, 5403.0, 5350.0, 5695.0, 5338.0, 5469.0, 5652.0, 5329.0, 5436.0, 5288.0, 5449.0, 5697.0, 5343.0, 5558.0, 5683.0, 5337.0, 5434.0, 5284.0, 5478.0, 5620.0, 5669.0, 5536.0, 5690.0, 5515.0, 5505.0, 5437.0, 5476.0, 5390.0, 5622.0, 5419.0, 5546.0, 5706.0, 5681.0, 5713.0, 5463.0, 5306.0, 5253.0, 5494.0, 5336.0, 5521.0, 5493.0 (number of hits: 6)
5	5270	9	1	333	1	5311.0, 5701.0, 5478.0, 5509.0, 5690.0, 5425.0, 5309.0, 5496.0, 5546.0, 5484.0, 5291.0, 5652.0, 5574.0, 5341.0, 5527.0, 5522.0, 5560.0, 5528.0, 5476.0, 5306.0, 5304.0, 5451.0, 5597.0, 5713.0, 5665.0, 5721.0, 5536.0, 5583.0, 5612.0, 5358.0, 5671.0, 5482.0, 5657.0, 5563.0, 5485.0, 5602.0, 5266.0, 5368.0, 5622.0, 5621.0, 5626.0, 5297.0, 5310.0, 5317.0, 5501.0, 5474.0, 5682.0, 5596.0, 5321.0, 5386.0, 5606.0, 5348.0, 5661.0, 5259.0, 5586.0, 5633.0, 5593.0, 5390.0, 5500.0, 5638.0, 5517.0, 5529.0, 5571.0, 5439.0, 5625.0, 5630.0, 5568.0, 5359.0, 5444.0, 5392.0, 5353.0, 5515.0, 5581.0, 5280.0, 5594.0, 5620.0, 5343.0, 5461.0, 5722.0, 5449.0, 5330.0, 5619.0, 5717.0, 5559.0, 5466.0, 5677.0, 5562.0, 5582.0, 5420.0, 5273.0, 5618.0, 5299.0, 5325.0, 5598.0, 5277.0, 5542.0, 5385.0, 5373.0, 5363.0, 5648.0 (number of hits: 8)
6	5270	9	1	333	1	5542.0, 5657.0, 5705.0, 5643.0, 5667.0, 5470.0, 5344.0, 5492.0, 5367.0, 5687.0, 5672.0, 5661.0, 5641.0, 5521.0, 5393.0, 5681.0, 5568.0, 5515.0, 5655.0, 5631.0, 5471.0, 5514.0, 5555.0, 5546.0, 5595.0, 5552.0, 5557.0, 5660.0, 5475.0, 5368.0, 5715.0, 5307.0, 5721.0, 5291.0, 5316.0, 5484.0, 5594.0, 5411.0, 5495.0, 5436.0, 5387.0, 5334.0, 5518.0, 5593.0, 5322.0,

						5674.0, 5276.0, 5645.0, 5710.0, 5638.0, 5527.0, 5531.0, 5432.0, 5421.0, 5639.0, 5453.0, 5361.0, 5508.0, 5447.0, 5337.0, 5529.0, 5377.0, 5270.0, 5465.0, 5263.0, 5357.0, 5277.0, 5487.0, 5342.0, 5519.0, 5533.0, 5323.0, 5327.0, 5412.0, 5274.0, 5569.0, 5404.0, 5493.0, 5375.0, 5714.0, 5333.0, 5707.0, 5718.0, 5267.0, 5696.0, 5668.0, 5306.0, 5592.0, 5317.0, 5381.0, 5360.0, 5358.0, 5680.0, 5600.0, 5329.0, 5268.0, 5313.0, 5642.0, 5372.0, 5414.0 (number of hits: 4)
7	5270	9	1	333	1	5525.0, 5404.0, 5370.0, 5548.0, 5281.0, 5355.0, 5660.0, 5569.0, 5337.0, 5494.0, 5705.0, 5588.0, 5612.0, 5295.0, 5703.0, 5666.0, 5609.0, 5545.0, 5551.0, 5665.0, 5614.0, 5439.0, 5478.0, 5509.0, 5561.0, 5267.0, 5289.0, 5621.0, 5714.0, 5322.0, 5647.0, 5411.0, 5607.0, 5366.0, 5418.0, 5565.0, 5252.0, 5595.0, 5654.0, 5278.0, 5347.0, 5293.0, 5468.0, 5454.0, 5648.0, 5631.0, 5307.0, 5585.0, 5305.0, 5528.0, 5633.0, 5398.0, 5529.0, 5562.0, 5635.0, 5616.0, 5333.0, 5351.0, 5375.0, 5708.0, 5447.0, 5342.0, 5722.0, 5421.0, 5663.0, 5463.0, 5495.0, 5457.0, 5573.0, 5425.0, 5584.0, 5555.0, 5400.0, 5671.0, 5541.0, 5636.0, 5408.0, 5472.0, 5532.0, 5287.0, 5520.0, 5506.0, 5721.0, 5720.0, 5718.0, 5533.0, 5470.0, 5391.0, 5330.0, 5444.0, 5379.0, 5448.0, 5319.0, 5396.0, 5516.0, 5546.0, 5706.0, 5497.0, 5653.0, 5651.0 (number of hits: 6)
8	5270	9	1	333	1	5689.0, 5586.0, 5263.0, 5560.0, 5309.0, 5556.0, 5349.0, 5592.0, 5339.0, 5677.0, 5547.0, 5415.0, 5706.0, 5488.0, 5537.0, 5441.0, 5604.0, 5474.0, 5472.0, 5460.0, 5589.0, 5282.0, 5296.0, 5701.0, 5303.0, 5405.0, 5483.0, 5606.0, 5335.0, 5281.0, 5632.0, 5562.0, 5334.0, 5289.0, 5636.0, 5320.0, 5567.0, 5389.0, 5530.0, 5443.0, 5668.0, 5388.0, 5345.0, 5260.0, 5615.0, 5342.0, 5270.0, 5400.0, 5359.0, 5380.0, 5252.0, 5258.0, 5348.0, 5370.0, 5519.0, 5274.0, 5328.0, 5696.0, 5304.0, 5712.0, 5487.0, 5558.0, 5316.0, 5552.0, 5357.0, 5652.0, 5417.0, 5485.0, 5390.0, 5550.0, 5657.0, 5710.0, 5508.0, 5426.0, 5527.0, 5407.0, 5621.0, 5613.0, 5337.0, 5525.0, 5442.0, 5644.0, 5716.0, 5381.0, 5593.0, 5290.0, 5681.0, 5661.0, 5583.0, 5635.0, 5650.0, 5382.0, 5276.0, 5572.0, 5360.0, 5575.0, 5428.0, 5717.0, 5501.0, 5692.0 (number of hits: 6)
9	5270	9	1	333	1	5250.0, 5488.0, 5577.0, 5587.0, 5659.0, 5503.0, 5300.0, 5627.0, 5548.0, 5615.0, 5287.0, 5322.0, 5361.0, 5368.0, 5280.0, 5379.0, 5366.0, 5389.0, 5579.0, 5321.0, 5477.0, 5311.0, 5578.0, 5392.0, 5482.0, 5452.0, 5299.0, 5428.0, 5522.0, 5550.0,

						5272.0, 5324.0, 5567.0, 5319.0, 5290.0, 5352.0, 5418.0, 5708.0, 5566.0, 5507.0, 5546.0, 5419.0, 5553.0, 5689.0, 5510.0, 5398.0, 5541.0, 5723.0, 5387.0, 5485.0, 5480.0, 5701.0, 5534.0, 5691.0, 5529.0, 5263.0, 5614.0, 5289.0, 5472.0, 5719.0, 5396.0, 5641.0, 5315.0, 5640.0, 5538.0, 5597.0, 5252.0, 5626.0, 5468.0, 5706.0, 5688.0, 5362.0, 5278.0, 5442.0, 5646.0, 5504.0, 5446.0, 5464.0, 5384.0, 5456.0, 5416.0, 5285.0, 5527.0, 5654.0, 5259.0, 5502.0, 5395.0, 5657.0, 5397.0, 5380.0, 5716.0, 5386.0, 5639.0, 5526.0, 5672.0, 5699.0, 5649.0, 5271.0, 5580.0, 5317.0 (number of hits: 7)
10	5270	9	1	333	1	5397.0, 5481.0, 5352.0, 5376.0, 5720.0, 5469.0, 5367.0, 5401.0, 5346.0, 5409.0, 5698.0, 5267.0, 5534.0, 5617.0, 5505.0, 5532.0, 5487.0, 5489.0, 5438.0, 5393.0, 5472.0, 5415.0, 5543.0, 5442.0, 5714.0, 5715.0, 5419.0, 5527.0, 5250.0, 5467.0, 5629.0, 5723.0, 5479.0, 5450.0, 5374.0, 5286.0, 5330.0, 5353.0, 5276.0, 5565.0, 5403.0, 5356.0, 5503.0, 5635.0, 5351.0, 5676.0, 5452.0, 5683.0, 5671.0, 5257.0, 5614.0, 5518.0, 5573.0, 5586.0, 5681.0, 5456.0, 5507.0, 5335.0, 5550.0, 5509.0, 5433.0, 5314.0, 5574.0, 5575.0, 5328.0, 5528.0, 5423.0, 5395.0, 5427.0, 5492.0, 5672.0, 5464.0, 5447.0, 5425.0, 5637.0, 5406.0, 5424.0, 5341.0, 5281.0, 5283.0, 5691.0, 5287.0, 5655.0, 5567.0, 5485.0, 5408.0, 5498.0, 5653.0, 5400.0, 5265.0, 5583.0, 5325.0, 5454.0, 5579.0, 5269.0, 5307.0, 5468.0, 5339.0, 5491.0, 5441.0 (number of hits: 4)
11	5270	9	1	333	1	5326.0, 5364.0, 5656.0, 5607.0, 5515.0, 5523.0, 5303.0, 5385.0, 5384.0, 5650.0, 5573.0, 5404.0, 5547.0, 5436.0, 5609.0, 5681.0, 5374.0, 5257.0, 5718.0, 5439.0, 5452.0, 5423.0, 5314.0, 5698.0, 5279.0, 5677.0, 5424.0, 5418.0, 5278.0, 5350.0, 5315.0, 5299.0, 5297.0, 5665.0, 5252.0, 5593.0, 5346.0, 5619.0, 5251.0, 5352.0, 5480.0, 5356.0, 5659.0, 5495.0, 5298.0, 5540.0, 5592.0, 5435.0, 5422.0, 5680.0, 5316.0, 5415.0, 5413.0, 5369.0, 5697.0, 5433.0, 5336.0, 5514.0, 5524.0, 5690.0, 5431.0, 5414.0, 5375.0, 5334.0, 5417.0, 5409.0, 5377.0, 5579.0, 5372.0, 5354.0, 5500.0, 5684.0, 5667.0, 5419.0, 5399.0, 5715.0, 5529.0, 5643.0, 5477.0, 5394.0, 5498.0, 5570.0, 5708.0, 5262.0, 5557.0, 5403.0, 5295.0, 5335.0, 5533.0, 5591.0, 5371.0, 5705.0, 5323.0, 5664.0, 5426.0, 5720.0, 5338.0, 5660.0, 5612.0, 5361.0 (number of hits: 6)
12	5270	9	1	333	1	5530.0, 5266.0, 5684.0, 5581.0, 5503.0, 5331.0, 5527.0, 5250.0, 5350.0, 5411.0, 5508.0, 5593.0, 5419.0, 5683.0, 5486.0,

						5523.0, 5428.0, 5429.0, 5432.0, 5706.0, 5696.0, 5460.0, 5389.0, 5464.0, 5570.0, 5538.0, 5447.0, 5413.0, 5272.0, 5722.0, 5601.0, 5513.0, 5681.0, 5532.0, 5278.0, 5625.0, 5584.0, 5640.0, 5443.0, 5689.0, 5327.0, 5615.0, 5395.0, 5387.0, 5540.0, 5422.0, 5431.0, 5721.0, 5353.0, 5351.0, 5632.0, 5479.0, 5709.0, 5426.0, 5268.0, 5423.0, 5692.0, 5408.0, 5271.0, 5467.0, 5550.0, 5621.0, 5405.0, 5335.0, 5526.0, 5462.0, 5517.0, 5597.0, 5572.0, 5420.0, 5355.0, 5452.0, 5511.0, 5612.0, 5289.0, 5485.0, 5380.0, 5378.0, 5723.0, 5695.0, 5345.0, 5373.0, 5713.0, 5444.0, 5322.0, 5582.0, 5587.0, 5531.0, 5583.0, 5562.0, 5321.0, 5465.0, 5314.0, 5579.0, 5442.0, 5637.0, 5705.0, 5416.0, 5638.0, 5676.0 (number of hits: 2)
13	5270	9	1	333	1	5575.0, 5409.0, 5462.0, 5695.0, 5652.0, 5694.0, 5331.0, 5604.0, 5718.0, 5408.0, 5468.0, 5629.0, 5423.0, 5590.0, 5686.0, 5638.0, 5708.0, 5313.0, 5305.0, 5268.0, 5662.0, 5447.0, 5302.0, 5617.0, 5523.0, 5596.0, 5551.0, 5628.0, 5427.0, 5722.0, 5637.0, 5436.0, 5504.0, 5453.0, 5379.0, 5434.0, 5622.0, 5650.0, 5332.0, 5668.0, 5471.0, 5460.0, 5343.0, 5510.0, 5428.0, 5375.0, 5404.0, 5506.0, 5487.0, 5522.0, 5513.0, 5482.0, 5589.0, 5598.0, 5719.0, 5498.0, 5392.0, 5251.0, 5672.0, 5340.0, 5661.0, 5259.0, 5710.0, 5572.0, 5625.0, 5703.0, 5350.0, 5484.0, 5429.0, 5289.0, 5702.0, 5501.0, 5676.0, 5544.0, 5474.0, 5394.0, 5414.0, 5367.0, 5402.0, 5416.0, 5568.0, 5556.0, 5258.0, 5410.0, 5319.0, 5537.0, 5285.0, 5570.0, 5512.0, 5431.0, 5585.0, 5454.0, 5592.0, 5610.0, 5654.0, 5344.0, 5346.0, 5648.0, 5290.0, 5358.0 (number of hits: 6)
14	5270	9	1	333	1	5385.0, 5334.0, 5572.0, 5684.0, 5270.0, 5598.0, 5416.0, 5513.0, 5488.0, 5665.0, 5712.0, 5267.0, 5386.0, 5561.0, 5506.0, 5650.0, 5590.0, 5717.0, 5280.0, 5286.0, 5298.0, 5357.0, 5565.0, 5391.0, 5284.0, 5564.0, 5253.0, 5288.0, 5261.0, 5709.0, 5522.0, 5319.0, 5322.0, 5670.0, 5310.0, 5377.0, 5265.0, 5689.0, 5570.0, 5317.0, 5510.0, 5348.0, 5645.0, 5329.0, 5432.0, 5347.0, 5274.0, 5575.0, 5705.0, 5443.0, 5460.0, 5456.0, 5349.0, 5260.0, 5266.0, 5582.0, 5520.0, 5254.0, 5448.0, 5272.0, 5716.0, 5295.0, 5407.0, 5671.0, 5300.0, 5327.0, 5639.0, 5597.0, 5362.0, 5547.0, 5492.0, 5411.0, 5602.0, 5356.0, 5457.0, 5441.0, 5425.0, 5494.0, 5452.0, 5588.0, 5678.0, 5632.0, 5661.0, 5463.0, 5421.0, 5591.0, 5409.0, 5323.0, 5332.0, 5648.0, 5534.0, 5635.0, 5345.0, 5518.0, 5271.0, 5418.0, 5662.0, 5538.0, 5550.0, 5262.0 (number of hits: 6)

15	5270	9	1	333	1	5500.0, 5357.0, 5638.0, 5558.0, 5687.0, 5280.0, 5486.0, 5309.0, 5529.0, 5481.0, 5431.0, 5592.0, 5441.0, 5596.0, 5602.0, 5693.0, 5498.0, 5578.0, 5581.0, 5509.0, 5346.0, 5720.0, 5442.0, 5491.0, 5515.0, 5652.0, 5663.0, 5513.0, 5618.0, 5721.0, 5698.0, 5371.0, 5704.0, 5614.0, 5353.0, 5648.0, 5539.0, 5625.0, 5714.0, 5385.0, 5651.0, 5619.0, 5282.0, 5253.0, 5630.0, 5608.0, 5587.0, 5274.0, 5524.0, 5549.0, 5643.0, 5627.0, 5699.0, 5345.0, 5671.0, 5411.0, 5319.0, 5569.0, 5718.0, 5439.0, 5388.0, 5565.0, 5399.0, 5609.0, 5510.0, 5531.0, 5514.0, 5504.0, 5361.0, 5631.0, 5679.0, 5289.0, 5451.0, 5295.0, 5403.0, 5334.0, 5341.0, 5395.0, 5476.0, 5266.0, 5695.0, 5554.0, 5338.0, 5632.0, 5279.0, 5325.0, 5308.0, 5447.0, 5430.0, 5536.0, 5445.0, 5672.0, 5315.0, 5472.0, 5419.0, 5532.0, 5392.0, 5572.0, 5323.0, 5313.0 (number of hits: 5)
16	5270	9	1	333	1	5296.0, 5493.0, 5328.0, 5338.0, 5455.0, 5636.0, 5639.0, 5325.0, 5671.0, 5511.0, 5618.0, 5350.0, 5650.0, 5712.0, 5606.0, 5283.0, 5721.0, 5354.0, 5579.0, 5466.0, 5344.0, 5362.0, 5398.0, 5459.0, 5608.0, 5577.0, 5272.0, 5690.0, 5484.0, 5312.0, 5381.0, 5463.0, 5359.0, 5292.0, 5257.0, 5518.0, 5527.0, 5539.0, 5498.0, 5336.0, 5698.0, 5600.0, 5301.0, 5365.0, 5509.0, 5645.0, 5293.0, 5594.0, 5380.0, 5436.0, 5620.0, 5488.0, 5610.0, 5613.0, 5399.0, 5720.0, 5638.0, 5374.0, 5664.0, 5683.0, 5708.0, 5403.0, 5605.0, 5517.0, 5404.0, 5251.0, 5709.0, 5280.0, 5452.0, 5383.0, 5337.0, 5448.0, 5640.0, 5574.0, 5584.0, 5477.0, 5705.0, 5316.0, 5471.0, 5485.0, 5585.0, 5516.0, 5628.0, 5360.0, 5319.0, 5560.0, 5526.0, 5391.0, 5277.0, 5409.0, 5371.0, 5447.0, 5614.0, 5684.0, 5390.0, 5635.0, 5264.0, 5271.0, 5476.0, 5563.0 (number of hits: 5)
17	5270	9	1	333	1	5602.0, 5348.0, 5630.0, 5614.0, 5451.0, 5585.0, 5391.0, 5513.0, 5683.0, 5489.0, 5457.0, 5373.0, 5716.0, 5305.0, 5437.0, 5374.0, 5665.0, 5409.0, 5700.0, 5330.0, 5425.0, 5558.0, 5717.0, 5695.0, 5393.0, 5584.0, 5532.0, 5595.0, 5616.0, 5397.0, 5696.0, 5452.0, 5410.0, 5443.0, 5697.0, 5604.0, 5406.0, 5486.0, 5480.0, 5637.0, 5382.0, 5351.0, 5447.0, 5589.0, 5317.0, 5536.0, 5527.0, 5553.0, 5661.0, 5444.0, 5274.0, 5552.0, 5565.0, 5399.0, 5253.0, 5278.0, 5286.0, 5294.0, 5331.0, 5530.0, 5647.0, 5329.0, 5419.0, 5334.0, 5518.0, 5422.0, 5537.0, 5429.0, 5551.0, 5519.0, 5424.0, 5292.0, 5509.0, 5299.0, 5321.0, 5466.0, 5392.0, 5582.0, 5380.0, 5610.0, 5328.0, 5421.0, 5577.0, 5511.0, 5502.0, 5262.0, 5352.0, 5304.0, 5515.0, 5357.0

						5378.0, 5656.0, 5559.0, 5516.0, 5460.0, 5403.0, 5542.0, 5428.0, 5688.0, 5303.0 (number of hits: 7)
18	5270	9	1	333	1	5547.0, 5567.0, 5296.0, 5369.0, 5353.0, 5646.0, 5319.0, 5618.0, 5371.0, 5484.0, 5624.0, 5273.0, 5370.0, 5665.0, 5340.0, 5281.0, 5668.0, 5652.0, 5386.0, 5415.0, 5690.0, 5480.0, 5427.0, 5409.0, 5327.0, 5630.0, 5656.0, 5602.0, 5556.0, 5628.0, 5310.0, 5675.0, 5700.0, 5337.0, 5697.0, 5549.0, 5261.0, 5328.0, 5687.0, 5565.0, 5603.0, 5475.0, 5437.0, 5478.0, 5629.0, 5430.0, 5721.0, 5672.0, 5443.0, 5442.0, 5496.0, 5367.0, 5325.0, 5488.0, 5339.0, 5422.0, 5604.0, 5590.0, 5546.0, 5258.0, 5562.0, 5277.0, 5405.0, 5361.0, 5485.0, 5670.0, 5376.0, 5667.0, 5551.0, 5514.0, 5448.0, 5402.0, 5681.0, 5645.0, 5466.0, 5432.0, 5344.0, 5383.0, 5609.0, 5619.0, 5508.0, 5308.0, 5507.0, 5461.0, 5471.0, 5595.0, 5576.0, 5331.0, 5644.0, 5257.0, 5499.0, 5688.0, 5534.0, 5706.0, 5316.0, 5411.0, 5504.0, 5593.0, 5275.0, 5655.0 (number of hits: 3)
19	5270	9	1	333	1	5568.0, 5294.0, 5486.0, 5430.0, 5643.0, 5442.0, 5444.0, 5302.0, 5371.0, 5580.0, 5375.0, 5638.0, 5370.0, 5720.0, 5549.0, 5251.0, 5559.0, 5596.0, 5303.0, 5607.0, 5291.0, 5401.0, 5373.0, 5698.0, 5546.0, 5642.0, 5500.0, 5453.0, 5654.0, 5627.0, 5629.0, 5409.0, 5656.0, 5619.0, 5352.0, 5668.0, 5691.0, 5405.0, 5587.0, 5701.0, 5502.0, 5561.0, 5286.0, 5679.0, 5531.0, 5435.0, 5455.0, 5586.0, 5400.0, 5363.0, 5422.0, 5267.0, 5623.0, 5314.0, 5576.0, 5693.0, 5694.0, 5519.0, 5334.0, 5600.0, 5280.0, 5490.0, 5493.0, 5672.0, 5459.0, 5592.0, 5439.0, 5376.0, 5525.0, 5550.0, 5614.0, 5261.0, 5327.0, 5599.0, 5362.0, 5297.0, 5563.0, 5485.0, 5480.0, 5340.0, 5293.0, 5344.0, 5465.0, 5526.0, 5404.0, 5388.0, 5270.0, 5271.0, 5681.0, 5470.0, 5257.0, 5310.0, 5689.0, 5338.0, 5272.0, 5292.0, 5354.0, 5384.0, 5707.0, 5562.0 (number of hits: 10)
20	5270	9	1	333	1	5407.0, 5683.0, 5373.0, 5289.0, 5508.0, 5687.0, 5555.0, 5351.0, 5274.0, 5669.0, 5459.0, 5615.0, 5632.0, 5290.0, 5308.0, 5486.0, 5440.0, 5306.0, 5452.0, 5301.0, 5533.0, 5711.0, 5583.0, 5706.0, 5619.0, 5695.0, 5413.0, 5590.0, 5397.0, 5487.0, 5446.0, 5507.0, 5310.0, 5358.0, 5649.0, 5473.0, 5281.0, 5584.0, 5466.0, 5479.0, 5317.0, 5252.0, 5501.0, 5475.0, 5293.0, 5513.0, 5604.0, 5524.0, 5603.0, 5578.0, 5264.0, 5381.0, 5643.0, 5636.0, 5484.0, 5641.0, 5576.0, 5472.0, 5698.0, 5704.0, 5335.0, 5344.0, 5509.0, 5408.0, 5356.0, 5269.0, 5350.0, 5663.0, 5553.0, 5551.0, 5690.0, 5520.0, 5654.0, 5429.0, 5670.0,

						5460.0, 5458.0, 5334.0, 5417.0, 5411.0, 5680.0, 5291.0, 5426.0, 5505.0, 5485.0, 5377.0, 5378.0, 5275.0, 5659.0, 5633.0, 5402.0, 5337.0, 5469.0, 5318.0, 5431.0, 5412.0, 5549.0, 5601.0, 5263.0, 5467.0 (number of hits: 8)
21	5270	9	1	333	1	5296.0, 5489.0, 5720.0, 5276.0, 5520.0, 5439.0, 5645.0, 5653.0, 5455.0, 5676.0, 5643.0, 5621.0, 5581.0, 5437.0, 5668.0, 5552.0, 5637.0, 5423.0, 5460.0, 5270.0, 5697.0, 5374.0, 5503.0, 5494.0, 5315.0, 5679.0, 5704.0, 5440.0, 5715.0, 5706.0, 5492.0, 5600.0, 5675.0, 5615.0, 5292.0, 5310.0, 5521.0, 5452.0, 5570.0, 5450.0, 5375.0, 5698.0, 5514.0, 5266.0, 5616.0, 5473.0, 5363.0, 5517.0, 5411.0, 5694.0, 5476.0, 5371.0, 5596.0, 5384.0, 5387.0, 5422.0, 5373.0, 5307.0, 5335.0, 5559.0, 5506.0, 5515.0, 5589.0, 5477.0, 5474.0, 5498.0, 5510.0, 5687.0, 5345.0, 5481.0, 5343.0, 5593.0, 5595.0, 5306.0, 5395.0, 5287.0, 5549.0, 5471.0, 5324.0, 5361.0, 5719.0, 5274.0, 5443.0, 5708.0, 5381.0, 5583.0, 5396.0, 5575.0, 5424.0, 5650.0, 5553.0, 5350.0, 5550.0, 5646.0, 5551.0, 5519.0, 5713.0, 5565.0, 5386.0, 5496.0 (number of hits: 6)
22	5270	9	1	333	1	5547.0, 5531.0, 5688.0, 5557.0, 5342.0, 5710.0, 5447.0, 5440.0, 5424.0, 5682.0, 5280.0, 5569.0, 5562.0, 5307.0, 5407.0, 5443.0, 5627.0, 5536.0, 5618.0, 5564.0, 5281.0, 5422.0, 5297.0, 5369.0, 5603.0, 5672.0, 5667.0, 5610.0, 5532.0, 5568.0, 5428.0, 5612.0, 5595.0, 5437.0, 5481.0, 5497.0, 5305.0, 5450.0, 5518.0, 5308.0, 5648.0, 5661.0, 5253.0, 5451.0, 5656.0, 5408.0, 5646.0, 5455.0, 5696.0, 5593.0, 5487.0, 5411.0, 5502.0, 5310.0, 5322.0, 5421.0, 5711.0, 5474.0, 5705.0, 5432.0, 5651.0, 5584.0, 5306.0, 5582.0, 5684.0, 5561.0, 5700.0, 5694.0, 5282.0, 5257.0, 5602.0, 5608.0, 5521.0, 5706.0, 5549.0, 5571.0, 5279.0, 5325.0, 5373.0, 5495.0, 5380.0, 5707.0, 5619.0, 5391.0, 5524.0, 5494.0, 5510.0, 5647.0, 5558.0, 5632.0, 5505.0, 5317.0, 5525.0, 5720.0, 5260.0, 5587.0, 5659.0, 5274.0, 5326.0, 5623.0 (number of hits: 6)
23	5270	9	1	333	1	5484.0, 5550.0, 5330.0, 5677.0, 5265.0, 5351.0, 5534.0, 5397.0, 5575.0, 5620.0, 5258.0, 5715.0, 5646.0, 5696.0, 5392.0, 5434.0, 5511.0, 5490.0, 5421.0, 5487.0, 5604.0, 5431.0, 5310.0, 5558.0, 5316.0, 5439.0, 5321.0, 5458.0, 5293.0, 5549.0, 5450.0, 5404.0, 5665.0, 5326.0, 5512.0, 5585.0, 5672.0, 5652.0, 5306.0, 5446.0, 5628.0, 5324.0, 5654.0, 5720.0, 5503.0, 5634.0, 5721.0, 5334.0, 5612.0, 5391.0, 5463.0, 5615.0, 5251.0, 5254.0, 5505.0, 5670.0, 5470.0, 5481.0, 5398.0, 5375.0,

						5546.0, 5269.0, 5544.0, 5610.0, 5690.0, 5346.0, 5597.0, 5466.0, 5679.0, 5479.0, 5684.0, 5319.0, 5513.0, 5442.0, 5418.0, 5432.0, 5702.0, 5689.0, 5295.0, 5354.0, 5451.0, 5372.0, 5533.0, 5376.0, 5278.0, 5649.0, 5555.0, 5272.0, 5370.0, 5602.0, 5492.0, 5556.0, 5401.0, 5382.0, 5697.0, 5358.0, 5300.0, 5301.0, 5329.0, 5608.0 (number of hits: 6)
24	5270	9	1	333	1	5400.0, 5461.0, 5268.0, 5653.0, 5493.0, 5532.0, 5611.0, 5501.0, 5305.0, 5669.0, 5433.0, 5380.0, 5362.0, 5560.0, 5652.0, 5393.0, 5289.0, 5311.0, 5316.0, 5399.0, 5589.0, 5697.0, 5263.0, 5332.0, 5361.0, 5539.0, 5631.0, 5294.0, 5252.0, 5416.0, 5365.0, 5505.0, 5308.0, 5593.0, 5586.0, 5451.0, 5647.0, 5378.0, 5436.0, 5472.0, 5364.0, 5550.0, 5284.0, 5512.0, 5485.0, 5457.0, 5458.0, 5396.0, 5534.0, 5411.0, 5605.0, 5483.0, 5606.0, 5603.0, 5643.0, 5487.0, 5663.0, 5659.0, 5595.0, 5304.0, 5406.0, 5260.0, 5442.0, 5699.0, 5282.0, 5598.0, 5488.0, 5681.0, 5651.0, 5580.0, 5601.0, 5291.0, 5367.0, 5538.0, 5383.0, 5390.0, 5323.0, 5551.0, 5524.0, 5409.0, 5369.0, 5360.0, 5476.0, 5591.0, 5644.0, 5375.0, 5584.0, 5357.0, 5310.0, 5511.0, 5521.0, 5469.0, 5648.0, 5649.0, 5325.0, 5473.0, 5420.0, 5349.0, 5395.0, 5432.0 (number of hits: 8)
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26	5270	9	1	333	1	5411.0, 5686.0, 5355.0, 5653.0, 5423.0, 5715.0, 5693.0, 5546.0, 5614.0, 5656.0, 5369.0, 5535.0, 5476.0, 5675.0, 5376.0, 5588.0, 5308.0, 5311.0, 5264.0, 5441.0, 5457.0, 5325.0, 5510.0, 5392.0, 5631.0, 5379.0, 5262.0, 5582.0, 5370.0, 5339.0, 5323.0, 5717.0, 5483.0, 5299.0, 5265.0, 5338.0, 5272.0, 5500.0, 5373.0, 5283.0, 5372.0, 5410.0, 5480.0, 5386.0, 5444.0,

						5598.0, 5553.0, 5349.0, 5463.0, 5317.0, 5425.0, 5709.0, 5515.0, 5612.0, 5414.0, 5569.0, 5358.0, 5636.0, 5312.0, 5406.0, 5281.0, 5305.0, 5361.0, 5366.0, 5354.0, 5375.0, 5384.0, 5599.0, 5523.0, 5622.0, 5640.0, 5335.0, 5485.0, 5432.0, 5363.0, 5522.0, 5584.0, 5251.0, 5329.0, 5618.0, 5630.0, 5412.0, 5326.0, 5666.0, 5596.0, 5690.0, 5341.0, 5413.0, 5302.0, 5722.0, 5552.0, 5351.0, 5391.0, 5320.0, 5566.0, 5606.0, 5397.0, 5471.0, 5472.0, 5398.0 (number of hits: 6)
27	5270	9	1	333	1	5534.0, 5685.0, 5697.0, 5548.0, 5429.0, 5465.0, 5360.0, 5352.0, 5448.0, 5345.0, 5695.0, 5541.0, 5456.0, 5550.0, 5412.0, 5289.0, 5305.0, 5309.0, 5492.0, 5663.0, 5670.0, 5540.0, 5613.0, 5633.0, 5681.0, 5552.0, 5308.0, 5537.0, 5597.0, 5600.0, 5280.0, 5700.0, 5696.0, 5367.0, 5447.0, 5450.0, 5709.0, 5436.0, 5479.0, 5296.0, 5583.0, 5687.0, 5702.0, 5692.0, 5539.0, 5563.0, 5433.0, 5471.0, 5343.0, 5375.0, 5275.0, 5291.0, 5520.0, 5389.0, 5395.0, 5536.0, 5524.0, 5417.0, 5529.0, 5278.0, 5415.0, 5617.0, 5684.0, 5487.0, 5469.0, 5414.0, 5498.0, 5324.0, 5340.0, 5573.0, 5284.0, 5629.0, 5565.0, 5497.0, 5277.0, 5405.0, 5676.0, 5386.0, 5718.0, 5595.0, 5388.0, 5322.0, 5319.0, 5623.0, 5292.0, 5257.0, 5625.0, 5522.0, 5645.0, 5418.0, 5273.0, 5321.0, 5495.0, 5392.0, 5593.0, 5689.0, 5558.0, 5446.0, 5568.0, 5585.0 (number of hits: 7)
28	5270	9	1	333	1	5440.0, 5327.0, 5491.0, 5361.0, 5528.0, 5471.0, 5404.0, 5676.0, 5468.0, 5253.0, 5529.0, 5465.0, 5460.0, 5473.0, 5390.0, 5320.0, 5381.0, 5612.0, 5331.0, 5264.0, 5454.0, 5656.0, 5436.0, 5674.0, 5405.0, 5307.0, 5555.0, 5608.0, 5363.0, 5292.0, 5343.0, 5561.0, 5399.0, 5263.0, 5422.0, 5439.0, 5586.0, 5591.0, 5417.0, 5335.0, 5316.0, 5421.0, 5516.0, 5392.0, 5480.0, 5534.0, 5304.0, 5477.0, 5387.0, 5353.0, 5260.0, 5589.0, 5653.0, 5408.0, 5368.0, 5428.0, 5407.0, 5688.0, 5639.0, 5598.0, 5483.0, 5478.0, 5566.0, 5402.0, 5660.0, 5531.0, 5714.0, 5692.0, 5701.0, 5576.0, 5568.0, 5302.0, 5723.0, 5636.0, 5280.0, 5378.0, 5425.0, 5606.0, 5621.0, 5585.0, 5557.0, 5500.0, 5443.0, 5433.0, 5366.0, 5550.0, 5580.0, 5509.0, 5558.0, 5600.0, 5698.0, 5536.0, 5295.0, 5266.0, 5466.0, 5252.0, 5356.0, 5272.0, 5412.0, 5651.0 (number of hits: 5)
29	5270	9	1	333	1	5516.0, 5507.0, 5533.0, 5503.0, 5558.0, 5461.0, 5484.0, 5716.0, 5510.0, 5591.0, 5698.0, 5369.0, 5662.0, 5264.0, 5457.0, 5612.0, 5528.0, 5714.0, 5597.0, 5648.0, 5497.0, 5352.0, 5399.0, 5674.0, 5342.0, 5549.0, 5649.0, 5509.0, 5357.0, 5569.0,

						5604.0, 5323.0, 5354.0, 5393.0, 5300.0, 5637.0, 5274.0, 5609.0, 5467.0, 5675.0, 5502.0, 5348.0, 5473.0, 5657.0, 5305.0, 5251.0, 5721.0, 5368.0, 5633.0, 5280.0, 5345.0, 5574.0, 5614.0, 5625.0, 5561.0, 5400.0, 5477.0, 5382.0, 5430.0, 5636.0, 5660.0, 5309.0, 5602.0, 5665.0, 5261.0, 5539.0, 5557.0, 5551.0, 5449.0, 5500.0, 5296.0, 5590.0, 5289.0, 5353.0, 5588.0, 5258.0, 5306.0, 5501.0, 5386.0, 5689.0, 5586.0, 5344.0, 5658.0, 5722.0, 5424.0, 5332.0, 5545.0, 5450.0, 5452.0, 5262.0, 5453.0, 5303.0, 5656.0, 5460.0, 5667.0, 5621.0, 5670.0, 5620.0, 5434.0, 5440.0 (number of hits: 7)
30	5270	9	1	333	1	5471.0, 5563.0, 5700.0, 5680.0, 5506.0, 5431.0, 5676.0, 5280.0, 5600.0, 5573.0, 5429.0, 5557.0, 5569.0, 5639.0, 5461.0, 5459.0, 5513.0, 5436.0, 5385.0, 5470.0, 5405.0, 5465.0, 5353.0, 5658.0, 5272.0, 5584.0, 5339.0, 5682.0, 5705.0, 5422.0, 5264.0, 5670.0, 5288.0, 5410.0, 5502.0, 5355.0, 5531.0, 5366.0, 5394.0, 5650.0, 5614.0, 5399.0, 5475.0, 5380.0, 5463.0, 5683.0, 5628.0, 5575.0, 5369.0, 5424.0, 5583.0, 5317.0, 5438.0, 5290.0, 5335.0, 5452.0, 5351.0, 5258.0, 5532.0, 5712.0, 5571.0, 5485.0, 5389.0, 5643.0, 5378.0, 5603.0, 5535.0, 5678.0, 5336.0, 5568.0, 5284.0, 5664.0, 5287.0, 5677.0, 5441.0, 5578.0, 5417.0, 5318.0, 5255.0, 5377.0, 5348.0, 5690.0, 5437.0, 5295.0, 5689.0, 5376.0, 5579.0, 5413.0, 5618.0, 5607.0, 5709.0, 5328.0, 5508.0, 5642.0, 5587.0, 5659.0, 5685.0, 5482.0, 5541.0, 5291.0 (number of hits: 5)

5550 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	96.7 %	60%	Pass
Type 2	30	90 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	96.7 %	60%	Pass
Aggregate (Type1 to 4)	120	94.175 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5550 MHz, 40 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	5550	18	1	1428	1
2	5550	18	1	1428	0
3	5550	18	1	1428	1
4	5550	18	1	1428	1
5	5550	18	1	1428	1
6	5550	18	1	1428	1
7	5550	18	1	1428	1
8	5550	18	1	1428	1
9	5550	18	1	1428	1
10	5550	18	1	1428	1
11	5550	18	1	1428	1
12	5550	18	1	1428	1
13	5550	18	1	1428	1
14	5550	18	1	1428	1
15	5550	18	1	1428	1
16	5550	18	1	1428	1
17	5550	18	1	1428	1
18	5550	18	1	1428	1
19	5550	18	1	1428	1
20	5550	18	1	1428	1
21	5550	18	1	1428	1
22	5550	18	1	1428	1
23	5550	18	1	1428	1
24	5550	18	1	1428	1
25	5550	18	1	1428	1
26	5550	18	1	1428	1
27	5550	18	1	1428	1
28	5550	18	1	1428	1
29	5550	18	1	1428	1
30	5550	18	1	1428	1
Detection Percentage: 96.7 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5550	25	4.7	184	1
2	5550	23	4.3	164	1
3	5550	23	1	208	1
4	5550	24	5	202	1
5	5550	25	1.6	219	1
6	5550	25	3.6	162	1
7	5550	29	2.4	193	1
8	5550	27	4.9	202	1
9	5550	29	3.5	193	1
10	5550	26	1.9	211	0
11	5550	26	1.2	207	1
12	5550	24	1.9	168	1
13	5550	23	4.4	210	1
14	5550	29	3.4	162	1
15	5550	24	1.2	207	0
16	5550	26	3.4	213	1
17	5550	28	1.2	189	0
18	5550	29	4.2	192	1
19	5550	28	2.2	155	1
20	5550	26	4.1	228	1
21	5550	29	4.8	193	1
22	5550	24	3.4	223	1
23	5550	24	2.6	215	1
24	5550	27	3.7	210	1
25	5550	23	4.8	211	1
26	5550	29	1.9	192	1
27	5550	24	2.6	222	1
28	5550	28	4.9	195	1
29	5550	26	4.5	155	1
30	5550	28	3	226	1
Detection Percentage: 90 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5550	17	6.5	349	1
2	5550	17	8.8	464	1
3	5550	17	6	386	1
4	5550	16	6.1	325	1
5	5550	16	7.4	318	1
6	5550	16	7.1	494	1
7	5550	18	7.7	329	0
8	5550	17	8.8	500	1
9	5550	18	6.3	208	1
10	5550	18	9.4	280	1
11	5550	18	7	279	0
12	5550	16	7.2	232	1
13	5550	16	8.4	420	1
14	5550	18	6.6	349	1
15	5550	17	6.9	329	1
16	5550	16	9.3	212	1
17	5550	18	7.8	271	1
18	5550	18	9.9	377	1
19	5550	18	6.3	307	1
20	5550	18	7.3	489	1
21	5550	18	9.1	423	1
22	5550	17	9.8	467	1
23	5550	16	6.2	237	1
24	5550	16	9	365	1
25	5550	18	9.5	478	1
26	5550	16	9	491	1
27	5550	18	7.6	262	1
28	5550	17	8.7	320	1
29	5550	18	6.5	381	1
30	5550	18	8.5	469	1
Detection Percentage: 93.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5550	13	11.2	456	1
2	5550	13	17.5	256	1
3	5550	13	14.3	246	1
4	5550	13	12.2	276	1
5	5550	16	13.7	443	1
6	5550	14	15.3	407	1
7	5550	13	16.4	232	1
8	5550	13	16.4	438	1
9	5550	16	14	230	1
10	5550	16	19.2	252	1
11	5550	15	13.9	201	1
12	5550	16	11.7	387	1
13	5550	16	14.1	472	1
14	5550	14	17.5	491	1
15	5550	16	17.2	233	1
16	5550	16	19.5	235	1
17	5550	14	18	424	1
18	5550	14	14.3	353	0
19	5550	16	19.1	273	1
20	5550	16	16.2	323	1
21	5550	13	14.6	342	1
22	5550	13	11	226	1
23	5550	13	13	471	1
24	5550	14	13.4	385	1
25	5550	12	17.2	236	1
26	5550	16	14	375	1
27	5550	16	17.4	336	1
28	5550	15	19.2	269	1
29	5550	12	19.3	450	1
30	5550	13	12	442	1
Detection Percentage: 96.7 % (>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	14	66.5	1294	1431	0.378349	1
1	1	18	87.6			0.768536	
2	2	16	62.7	1168		1.727655	
3	1	13	63.1			2.464882	
4	3	18	61.2	1374	1260	3.424191	
5	3	7	65.3	1185	1254	3.756375	
6	1	7	90.5			4.927092	
7	3	18	98.6	1664	1993	5.026627	
8	1	5	74.5			5.827865	
9	2	12	98.1	1529		6.420869	
10	2	9	82	1553		7.740934	
11	1	5	64.6			8.356289	
12	3	14	94.9	1019	1326	9.157558	
13	3	12	61.6	1814	1162	9.206812	
14	3	19	66.1	1393	1235	10.02808	
15	3	15	63.2	1202	1998	11.057791	
16	2	6	58.5	1340		11.751822	

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	10	58.9	1010		0.599803	1
1	2	14	95.9	1378		1.037699	
2	2	14	85.7	1929		1.379916	
3	2	9	58.1	1696		2.067508	
4	1	12	87.4			2.635223	
5	2	11	65.5	1081		3.462293	
6	2	10	76.9	1647		4.326587	
7	3	6	75.8	1785	1727	4.771448	
8	3	17	78.6	1309	1281	5.584716	
9	1	6	72.2			6.301112	
10	1	20	88.4			6.452074	
11	2	17	89.6	1402		7.474043	
12	1	13	80.9			7.595788	
13	3	11	71.2	1932	1764	8.576869	
14	1	8	98.4			9.090447	
15	2	20	76.4	1886		9.826204	
16	2	14	79.9	1805		10.489119	
17	2	7	71.3	1926		11.266446	
18	2	19	96.2	1222		11.882728	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	60.5	1786	1755	0.044099	1
1	3	9	91.3	1713	1692	2.574496	
2	1	19	56.8			3.097281	
3	1	11	58			4.551924	
4	3	11	83.2	1077	1089	6.498925	
5	2	19	62.4	1820		8.824659	
6	2	18	66.6	1635		9.90983	
7	2	17	61.2	1263		11.563074	

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	10	65.6	1393	1875	0.8185	1
1	2	7	53.7	1801		1.87971	
2	2	12	89.8	1413		3.158469	
3	1	14	82.9			4.665756	
4	2	9	96.8	1563		5.455243	
5	2	16	75.6	1956		6.773486	
6	2	15	58.1	1907		7.489818	
7	1	10	63.4			9.223597	
8	3	6	84	1240	1337	10.38412	
9	2	14	72.1	1188		11.247772	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	60.6	1654		0.329453	1
1	1	17	57			1.001587	
2	2	13	51.4	1603		2.015982	
3	2	18	73	1264		3.837683	
4	3	15	79.4	1047	1052	4.657894	
5	2	14	91.9	1689		5.431145	
6	1	15	73.5			6.056024	
7	1	19	53.4			7.269797	
8	2	7	95.1	1457		8.427624	
9	3	18	84.8	1492	1020	9.505487	
10	3	11	67.3	1278	1642	10.460969	
11	3	14	84.9	1448	1214	11.988126	

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	58.3	1573		0.105845	1
1	3	19	86.2	1391	1341	1.064644	
2	1	7	79.3			2.124642	
3	2	15	61.3	1527		3.161133	
4	2	6	77.3	1552		4.072438	
5	1	18	60.8			4.417453	
6	1	8	83			5.838545	
7	2	7	58.4	1060		6.368885	
8	2	13	57	1543		7.322997	
9	3	17	60.2	1199	1929	8.463601	
10	2	9	78.7	1270		9.195141	
11	3	7	88	1929	1040	9.879265	
12	2	19	68.2	1819		10.763712	
13	2	6	62.1	1656		11.383364	

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	16	97.8	1050		0.24811	1
1	2	17	65	1307		1.050837	
2	2	8	71.4	1071		1.883727	
3	2	11	95.1	1592		2.430777	
4	2	5	96.5	1337		2.817208	
5	1	6	97.8			3.465831	
6	3	11	88.6	1245	1513	3.851654	
7	2	20	76.7	1869		4.644792	
8	2	8	80.1	1534		5.481008	
9	1	12	94.3			5.810672	
10	2	7	66.9	1129		6.642393	
11	2	10	60.8	1374		7.569428	
12	2	18	76.7	1657		7.974626	
13	3	9	57.4	1428	1966	8.556039	
14	1	9	61.8			9.2948	
15	2	5	54.3	1508		9.73417	
16	1	18	61.4			10.332023	
17	1	16	71			10.966563	
18	3	14	78.1	1568	1433	11.392709	

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	6	60			0.904548	1
1	1	7	55.4			2.594465	
2	3	6	62.4	1541	1572	3.126092	
3	2	8	75.4	1375		4.91409	
4	1	11	79.3			5.563559	
5	1	19	72			6.702483	
6	3	20	95.6	1055	1228	8.514005	
7	1	14	94.4			9.581589	
8	3	6	94.9	1212	1439	11.681147	

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	5	63.3	1265		0.598155	1
1	2	5	73.3	1057		1.186701	
2	2	13	94.9	1868		1.957698	
3	2	13	85.9	1699		2.344604	
4	2	8	74.9	1567		3.446869	
5	2	15	73.8	1541		3.62415	
6	2	15	74	1528		4.594593	
7	2	8	55.3	1252		5.455261	
8	2	7	50.7	1069		5.959033	
9	3	10	89.4	1198	1349	6.764438	
10	2	12	50.8	1519		7.357885	
11	3	14	96.8	1870	1413	7.767937	
12	2	18	67.3	1381		8.790431	
13	1	6	78.4			9.394153	
14	3	19	66.5	1321	1758	10.13124	
15	1	9	100			10.926475	
16	3	12	90.9	1694	1831	11.373562	

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	6	95.6	1644		0.18751	1
1	2	13	92.5	1513		1.471979	
2	2	9	64.6	1527		2.130432	
3	1	12	65.6			2.776081	
4	1	18	54.1			3.491407	
5	1	6	72.3			4.122341	
6	2	14	75.1	1089		4.634588	
7	3	20	63.4	1616	1378	5.596819	
8	2	15	83.6	1047		6.227624	
9	1	15	56.9			7.055952	
10	2	18	61.2	1667		7.555926	
11	1	9	95.4			8.496951	
12	2	13	76.9	1798		9.719509	
13	2	10	91.2	1684		10.263254	
14	3	10	65.9	1263	1562	10.843081	
15	1	6	70.3			11.868276	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	85.7			0.635892	1
1	3	13	74.3	1731	1117	0.890245	
2	1	18	79.6			1.901661	
3	2	10	89.8	1547		2.162331	
4	1	8	92.4			2.883134	
5	1	6	100			3.34232	
6	2	16	52	1798		4.211862	
7	3	15	88.6	1852	1083	5.194953	
8	2	19	87.6	1275		5.819846	
9	1	19	95			6.029138	
10	3	7	84.4	1558	1499	7.085818	
11	3	16	87.9	1226	1740	7.465416	
12	2	9	95.1	1189		8.442586	
13	1	14	74.2			8.727357	
14	2	7	84.6	1831		9.685387	
15	1	19	98.7			10.3917	
16	1	5	74.4			11.143259	
17	3	20	71.4	1979	1048	11.969595	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	66.3	1962		0.266824	1
1	2	16	51.5	1769		1.193292	
2	2	12	83.4	1894		2.488124	
3	2	9	89.3	1610		4.056259	
4	1	9	85.2			4.416069	
5	2	7	80.2	1876		5.500511	
6	1	11	83.4			7.18219	
7	2	16	91.9	1089		8.422954	
8	2	17	69.8	1046		9.456634	
9	3	12	71.3	1396	1516	10.3602	
10	2	14	50.4	1771		11.061348	

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	14	82	1314		0.367123	1
1	1	20	96.6			1.006993	
2	3	5	98.6	1815	1894	1.502168	
3	2	6	83	1641		2.15843	
4	2	12	53.4	1364		2.7483	
5	2	16	95.3	1397		3.572122	
6	3	7	56.8	1026	1647	4.27179	
7	2	9	66.9	1591		4.42571	
8	2	9	65.5	1809		5.369327	
9	2	12	66.1	1540		6.176118	
10	1	7	61.3			6.593981	
11	2	12	61.9	1541		7.45517	
12	1	9	88.6			7.655647	
13	2	6	72.2	1837		8.747738	
14	2	17	96.9	1551		9.462973	
15	3	16	93	1204	1680	9.599262	
16	2	13	86.1	1163		10.429414	
17	2	16	52	1531		11.052531	
18	3	15	83.7	1740	1290	11.425376	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	64.2			1.283785	1
1	1	16	63			2.338955	
2	2	8	71.1	1903		4.399243	
3	2	20	75.2	1081		5.639626	
4	3	8	75.8	1291	1159	6.623384	
5	2	13	55.4	1731		8.883403	
6	2	20	93	1168		9.924608	
7	1	16	51			11.205247	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	20	79	1145		0.492848	1
1	2	19	71.9	1067		1.137351	
2	1	14	72.1			1.200046	
3	1	12	76.5			2.23129	
4	2	14	53.7	1283		2.401294	
5	2	18	58.5	1207		3.236663	
6	2	19	81.5	1616		4.18441	
7	2	10	78.5	1512		4.462349	
8	2	5	81.5	1244		5.015534	
9	2	19	64.9	1096		5.506149	
10	1	13	75.2			6.460095	
11	3	19	89.1	1006	1584	6.668137	
12	3	16	53.6	1580	1804	7.433061	
13	3	16	74.2	1916	1787	8.093127	
14	3	12	81.2	1668	1716	8.881025	
15	3	19	71.3	1848	1894	9.346408	
16	2	8	57	1608		10.012186	
17	1	11	68.7			10.277401	
18	3	9	64.6	1427	1866	11.087967	
19	1	20	86.9			11.751858	

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	10	61.9	1341	1504	0.70294	1
1	2	6	56.4	1748		1.518437	
2	1	11	60.4			2.988828	
3	3	13	52.6	1457	1267	3.623014	
4	2	6	77.1	1369		4.995608	
5	2	19	94.3	1780		5.026059	
6	1	9	50.8			6.770557	
7	3	8	53	1330	1830	7.54616	
8	2	15	87.3	1495		8.371343	
9	1	13	96.8			9.064798	
10	1	12	85.8			10.939514	
11	3	17	85.6	1958	1626	11.401327	

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	18	58.1	1453		0.736364	1
1	1	16	58.3			2.970241	
2	3	6	53.2	1181	1516	4.015821	
3	2	18	53.1	1237		5.531002	
4	2	12	72.3	1284		7.018791	
5	1	16	64.6			7.886871	
6	1	9	53.2			9.589177	
7	2	14	57.1	1510		10.98033	

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	18	93	1903	1765	0.033835	1
1	2	9	51.8	1708		1.30167	
2	2	12	96.4	1938		1.447441	
3	2	6	90.8	1551		2.133795	
4	2	18	94.4	1678		3.237079	
5	2	13	89.9	1043		3.570397	
6	3	9	50.9	1466	1143	4.466077	
7	3	17	85.9	1481	1581	5.619739	
8	2	10	85.9	1850		6.153288	
9	2	5	87.3	1539		6.40604	
10	3	7	74.4	1894	1680	7.251079	
11	1	10	79.7			8.098379	
12	1	8	92			8.854568	
13	2	19	56.3	1365		9.252478	
14	3	9	57.8	1764	1931	9.902932	
15	2	12	81.1	1200		10.714265	
16	3	11	98.7	1677	1332	11.680093	

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	9	73.8	1094		1.05886	1
1	2	18	82.9	1860		2.357572	
2	1	16	53.6			3.445629	
3	2	12	85.2	1459		3.679948	
4	3	18	72.7	1232	1245	5.490254	
5	3	17	67	1649	1025	6.395631	
6	3	14	56.6	1664	1313	7.442426	
7	1	6	79.1			8.6218	
8	1	13	86.3			9.810595	
9	2	5	92.9	1840		11.507147	

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	15	64.5	1172		0.813509	1
1	2	5	60.3	1586		1.837585	
2	2	20	90.1	1487		2.394097	
3	2	11	93.2	1284		2.805259	
4	2	9	85.7	1431		4.480441	
5	1	15	54.2			5.272911	
6	2	6	63.9	1496		5.671339	
7	3	13	58.6	1418	1813	7.35722	
8	3	11	62	1928	1836	7.618661	
9	2	12	73	1199		8.463161	
10	2	8	62.6	1705		10.008886	
11	2	13	74.9	1279		10.361259	
12	3	13	79	1947	1198	11.777102	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	74.1	1430	1515	0.331215	1
1	1	19	52.8			1.229148	
2	2	13	64.1	1181		1.76107	
3	1	6	85.7			2.775173	
4	1	13	71.5			3.595636	
5	2	18	50.6	1312		4.357969	
6	3	14	60.8	1148	1610	5.30925	
7	1	9	84			6.759107	
8	2	7	79.5	1413		7.690797	
9	3	6	52.9	1721	1875	8.402288	
10	2	9	67.3	1194		9.069066	
11	1	16	52.8			9.717289	
12	2	18	89.7	1890		10.490215	
13	1	6	70.9			11.702949	

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	71.5	1499		0.587133	1
1	2	12	70.8	1607		1.084472	
2	2	7	93.2	1882		2.178576	
3	3	7	64.5	1621	1774	3.556412	
4	2	14	82.2	1394		4.728057	
5	3	19	89.9	1525	1627	5.53927	
6	2	9	73	1955		6.111749	
7	2	8	85.9	1716		7.844972	
8	2	5	56.2	1482		8.721404	
9	2	18	75.4	1779		9.480716	
10	2	15	79.7	1847		10.422391	
11	2	13	77	1427		11.455318	

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	20	56.3			0.200201	1
1	3	18	56.8	1241	1245	1.429333	
2	2	12	71.6	1597		1.961971	
3	2	15	86.3	1509		3.07187	
4	2	19	87.8	1827		3.779004	
5	2	14	98.2	1084		4.553301	
6	1	14	87			5.39404	
7	1	15	55.5			6.032848	
8	1	18	77.1			6.995991	
9	2	9	62.4	1944		7.518781	
10	2	12	95.8	1896		8.407309	
11	2	13	58.8	1857		9.165603	
12	1	12	53.9			9.687061	
13	3	14	72	1476	1731	11.145177	
14	1	13	55.6			11.675634	

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	5	90.3	1700		0.439809	1
1	3	10	73.2	1818	1365	1.15446	
2	3	6	78.6	1444	1469	2.121262	
3	1	6	51.6			3.203241	
4	2	18	83.4	1385		3.98488	
5	2	19	91	1024		5.073363	
6	1	5	50.5			6.336462	
7	3	15	82	1256	1582	6.746603	
8	2	14	85	1180		7.610398	
9	3	19	92.1	1433	1577	8.377623	
10	1	15	89			9.60424	
11	1	6	74.3			10.897923	
12	2	11	97.6	1170		11.275972	

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	14	58.4	1014	1185	0.24659	1
1	2	10	76.3	1419		1.889352	
2	2	17	56.6	1233		3.182634	
3	1	7	67.1			4.576146	
4	1	16	81.5			4.963022	
5	2	14	89.2	1468		6.711067	
6	2	15	91.1	1158		8.024812	
7	2	10	87.3	1200		9.429843	
8	2	18	82	1327		9.884735	
9	2	17	77.3	1726		11.466602	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	86.8			0.554013	1
1	2	8	78.8	1470		1.127746	
2	3	20	86.9	1273	1031	2.306846	
3	2	10	85.4	1966		2.919158	
4	2	10	89.8	1580		3.818061	
5	2	9	85.1	1827		4.921744	
6	2	8	80.5	1606		5.550973	
7	1	14	89.4			6.524388	
8	2	7	66.9	1992		6.97187	
9	2	13	80.2	1425		7.780548	
10	1	9	69.9			8.612063	
11	2	17	79.6	1640		9.723923	
12	1	14	98.9			10.825968	
13	2	11	94.2	1573		11.402665	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	20	67.3	1123	1796	1.032595	1
1	2	13	77.9	1077		2.273293	
2	3	12	55.9	1126	1933	3.351483	
3	3	9	89.9	1388	1378	4.721213	
4	2	15	96.2	1513		5.651293	
5	3	15	97.2	1275	1934	7.77209	
6	3	8	89.7	1895	1919	9.159241	
7	2	14	99.9	1993		10.620915	
8	2	7	53.6	1404		11.548712	

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	9	90.6			0.116741	1
1	2	14	73.5	1924		2.939114	
2	3	18	94.6	1264	1834	3.597328	
3	1	16	92			4.992314	
4	2	13	76.4	1946		6.531012	
5	3	10	86.3	1870	1035	8.315814	
6	3	12	61.4	1138	1024	9.110339	
7	2	7	93.5	1458		11.792606	

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	87.1			0.212264	1
1	3	15	72.3	1650	1123	1.145744	
2	1	8	90.6			1.994472	
3	3	11	82.2	1549	1204	2.148148	
4	1	8	77.2			2.755912	
5	3	20	75.5	1557	1427	3.46651	
6	1	15	66.4			4.64517	
7	1	11	96.6			5.086183	
8	3	8	93	1271	1679	5.804829	
9	2	18	92.6	1189		6.453957	
10	3	9	54.5	1234	1652	7.149374	
11	1	7	85.4			7.369542	
12	3	13	66.5	1403	1162	8.075723	
13	1	16	63.6			9.038979	
14	2	9	86.4	1296		9.834166	
15	1	15	93			10.181681	
16	3	14	71.4	1696	1322	10.736521	
17	3	12	82.8	1418	1100	11.536741	

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	20	94.4			0.078849	1
1	2	7	97.1	2000		1.29245	
2	3	6	75.6	1143	1356	2.165995	
3	1	8	51.9			3.087699	
4	2	5	71.9	1266		3.309609	
5	1	19	78.4			4.09553	
6	1	14	67.1			5.37656	
7	2	20	63.6	1282		5.945838	
8	1	15	79.9			6.467595	
9	3	17	51.8	1916	1556	7.837288	
10	2	12	67.8	1930		8.720728	
11	2	16	64.1	1758		8.958791	
12	2	5	58.4	1914		9.782229	
13	3	14	52.4	1677	1158	10.894412	
14	1	6	85.9			11.558437	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5550	9	1	333	1	5629.0, 5561.0, 5678.0, 5522.0, 5340.0, 5447.0, 5724.0, 5342.0, 5699.0, 5261.0, 5254.0, 5567.0, 5690.0, 5269.0, 5691.0, 5449.0, 5425.0, 5578.0, 5686.0, 5703.0, 5365.0, 5524.0, 5608.0, 5472.0, 5286.0, 5518.0, 5693.0, 5528.0, 5438.0, 5545.0, 5294.0, 5471.0, 5277.0, 5717.0, 5304.0, 5668.0, 5257.0, 5280.0, 5689.0, 5590.0, 5454.0, 5323.0, 5633.0, 5381.0, 5324.0, 5440.0, 5393.0, 5266.0, 5583.0, 5345.0, 5640.0, 5364.0, 5649.0, 5432.0, 5509.0, 5262.0, 5515.0, 5551.0, 5305.0, 5553.0, 5414.0, 5603.0, 5520.0, 5335.0, 5648.0, 5538.0, 5337.0, 5513.0, 5329.0, 5445.0, 5412.0, 5559.0, 5644.0, 5270.0, 5581.0, 5676.0, 5317.0, 5463.0, 5628.0, 5378.0, 5353.0, 5398.0, 5612.0, 5287.0, 5394.0, 5482.0, 5418.0, 5300.0, 5692.0, 5466.0, 5416.0, 5517.0, 5711.0, 5302.0, 5597.0, 5444.0, 5404.0, 5694.0, 5618.0, 5296.0 (number of hits: 8)
2	5550	9	1	333	1	5473.0, 5313.0, 5589.0, 5533.0, 5284.0, 5606.0, 5710.0, 5449.0, 5287.0, 5360.0, 5442.0, 5684.0, 5467.0, 5629.0, 5331.0, 5609.0, 5387.0, 5382.0, 5579.0, 5540.0, 5448.0, 5637.0, 5366.0, 5484.0, 5352.0, 5403.0, 5265.0, 5299.0, 5595.0, 5482.0, 5418.0, 5359.0, 5721.0, 5409.0, 5314.0, 5288.0, 5322.0, 5451.0, 5570.0, 5487.0, 5349.0, 5350.0, 5256.0, 5471.0, 5601.0, 5427.0, 5309.0, 5280.0, 5617.0, 5289.0, 5680.0, 5296.0, 5307.0, 5413.0, 5605.0, 5564.0, 5526.0, 5662.0, 5687.0, 5654.0, 5425.0, 5678.0, 5572.0, 5316.0, 5656.0, 5293.0, 5577.0, 5385.0, 5372.0, 5502.0, 5713.0, 5469.0, 5348.0, 5392.0, 5358.0, 5518.0, 5671.0, 5556.0, 5404.0, 5308.0, 5714.0, 5267.0, 5635.0, 5454.0, 5720.0, 5719.0, 5504.0, 5668.0, 5477.0, 5516.0, 5649.0, 5312.0, 5525.0, 5597.0, 5715.0, 5610.0, 5343.0, 5278.0, 5722.0, 5263.0 (number of hits: 12)
3	5550	9	1	333	1	5479.0, 5619.0, 5594.0, 5627.0, 5660.0, 5683.0, 5595.0, 5258.0, 5289.0, 5312.0, 5468.0, 5365.0, 5306.0, 5652.0, 5336.0, 5674.0, 5457.0, 5343.0, 5281.0, 5496.0, 5698.0, 5423.0, 5409.0, 5428.0, 5346.0, 5378.0, 5433.0, 5432.0, 5528.0, 5569.0, 5634.0, 5617.0, 5711.0, 5379.0, 5310.0, 5710.0, 5350.0, 5532.0, 5536.0, 5437.0, 5593.0, 5534.0, 5282.0, 5317.0, 5673.0, 5381.0, 5486.0, 5342.0, 5657.0, 5529.0, 5304.0, 5493.0, 5450.0, 5469.0, 5348.0, 5309.0, 5551.0, 5382.0, 5400.0, 5596.0

						5508.0, 5639.0, 5443.0, 5697.0, 5665.0, 5315.0, 5370.0, 5445.0, 5661.0, 5721.0, 5444.0, 5641.0, 5666.0, 5522.0, 5628.0, 5305.0, 5460.0, 5293.0, 5684.0, 5349.0, 5611.0, 5717.0, 5354.0, 5650.0, 5516.0, 5686.0, 5651.0, 5599.0, 5319.0, 5461.0, 5470.0, 5338.0, 5482.0, 5590.0, 5364.0, 5659.0, 5377.0, 5612.0, 5579.0, 5714.0 (number of hits: 8)
4	5550	9	1	333	1	5650.0, 5648.0, 5645.0, 5276.0, 5532.0, 5494.0, 5654.0, 5717.0, 5502.0, 5629.0, 5285.0, 5559.0, 5416.0, 5607.0, 5622.0, 5437.0, 5365.0, 5354.0, 5594.0, 5307.0, 5475.0, 5373.0, 5269.0, 5587.0, 5478.0, 5395.0, 5344.0, 5716.0, 5293.0, 5670.0, 5644.0, 5509.0, 5263.0, 5634.0, 5436.0, 5448.0, 5254.0, 5664.0, 5609.0, 5277.0, 5517.0, 5334.0, 5485.0, 5635.0, 5570.0, 5507.0, 5709.0, 5284.0, 5720.0, 5300.0, 5677.0, 5442.0, 5311.0, 5333.0, 5385.0, 5659.0, 5362.0, 5627.0, 5420.0, 5405.0, 5417.0, 5270.0, 5526.0, 5721.0, 5474.0, 5643.0, 5467.0, 5273.0, 5322.0, 5409.0, 5591.0, 5503.0, 5361.0, 5465.0, 5392.0, 5631.0, 5687.0, 5370.0, 5286.0, 5577.0, 5542.0, 5515.0, 5567.0, 5289.0, 5546.0, 5653.0, 5352.0, 5430.0, 5394.0, 5299.0, 5633.0, 5257.0, 5375.0, 5663.0, 5624.0, 5538.0, 5604.0, 5407.0, 5305.0, 5623.0 (number of hits: 9)
5	5550	9	1	333	1	5633.0, 5507.0, 5471.0, 5493.0, 5553.0, 5360.0, 5309.0, 5521.0, 5499.0, 5363.0, 5576.0, 5662.0, 5319.0, 5252.0, 5487.0, 5365.0, 5591.0, 5310.0, 5389.0, 5529.0, 5641.0, 5346.0, 5413.0, 5684.0, 5374.0, 5359.0, 5399.0, 5485.0, 5712.0, 5342.0, 5545.0, 5291.0, 5494.0, 5596.0, 5559.0, 5685.0, 5340.0, 5689.0, 5372.0, 5708.0, 5652.0, 5381.0, 5568.0, 5654.0, 5386.0, 5361.0, 5534.0, 5412.0, 5508.0, 5296.0, 5398.0, 5440.0, 5415.0, 5424.0, 5382.0, 5646.0, 5707.0, 5250.0, 5562.0, 5450.0, 5402.0, 5432.0, 5549.0, 5408.0, 5555.0, 5557.0, 5469.0, 5338.0, 5570.0, 5379.0, 5509.0, 5289.0, 5543.0, 5272.0, 5716.0, 5334.0, 5266.0, 5285.0, 5391.0, 5447.0, 5433.0, 5668.0, 5658.0, 5497.0, 5486.0, 5457.0, 5598.0, 5673.0, 5453.0, 5706.0, 5352.0, 5586.0, 5587.0, 5267.0, 5477.0, 5281.0, 5448.0, 5590.0, 5420.0, 5426.0 (number of hits: 6)
6	5550	9	1	333	1	5592.0, 5563.0, 5544.0, 5372.0, 5714.0, 5444.0, 5507.0, 5313.0, 5339.0, 5721.0, 5557.0, 5524.0, 5370.0, 5636.0, 5480.0, 5385.0, 5258.0, 5642.0, 5681.0, 5654.0, 5589.0, 5536.0, 5532.0, 5573.0, 5483.0, 5294.0, 5688.0, 5334.0, 5538.0, 5597.0, 5673.0, 5361.0, 5356.0, 5671.0, 5610.0, 5602.0, 5578.0, 5369.0, 5416.0, 5575.0, 5433.0, 5637.0, 5617.0, 5512.0, 5354.0,

						5526.0, 5278.0, 5718.0, 5395.0, 5345.0, 5252.0, 5393.0, 5435.0, 5663.0, 5499.0, 5495.0, 5485.0, 5314.0, 5383.0, 5378.0, 5335.0, 5626.0, 5701.0, 5555.0, 5644.0, 5426.0, 5587.0, 5594.0, 5375.0, 5360.0, 5477.0, 5501.0, 5329.0, 5709.0, 5332.0, 5514.0, 5695.0, 5700.0, 5400.0, 5634.0, 5437.0, 5377.0, 5619.0, 5352.0, 5506.0, 5394.0, 5670.0, 5305.0, 5430.0, 5471.0, 5464.0, 5268.0, 5571.0, 5303.0, 5451.0, 5553.0, 5472.0, 5669.0, 5492.0, 5403.0 (number of hits: 5)
7	5550	9	1	333	1	5378.0, 5420.0, 5450.0, 5537.0, 5354.0, 5670.0, 5665.0, 5549.0, 5383.0, 5436.0, 5294.0, 5521.0, 5715.0, 5446.0, 5539.0, 5571.0, 5709.0, 5300.0, 5518.0, 5406.0, 5469.0, 5366.0, 5360.0, 5510.0, 5454.0, 5394.0, 5424.0, 5523.0, 5367.0, 5593.0, 5303.0, 5425.0, 5540.0, 5597.0, 5328.0, 5603.0, 5484.0, 5552.0, 5443.0, 5706.0, 5663.0, 5283.0, 5347.0, 5475.0, 5307.0, 5703.0, 5516.0, 5479.0, 5372.0, 5555.0, 5275.0, 5254.0, 5452.0, 5285.0, 5369.0, 5434.0, 5282.0, 5498.0, 5614.0, 5435.0, 5646.0, 5330.0, 5664.0, 5619.0, 5439.0, 5362.0, 5299.0, 5411.0, 5403.0, 5379.0, 5315.0, 5376.0, 5620.0, 5356.0, 5273.0, 5455.0, 5261.0, 5388.0, 5635.0, 5466.0, 5351.0, 5698.0, 5650.0, 5401.0, 5724.0, 5694.0, 5577.0, 5456.0, 5255.0, 5617.0, 5558.0, 5457.0, 5441.0, 5684.0, 5589.0, 5637.0, 5587.0, 5453.0, 5422.0, 5271.0 (number of hits: 6)
8	5550	9	1	333	1	5692.0, 5303.0, 5648.0, 5356.0, 5406.0, 5321.0, 5255.0, 5538.0, 5514.0, 5712.0, 5519.0, 5375.0, 5467.0, 5687.0, 5325.0, 5286.0, 5458.0, 5337.0, 5275.0, 5382.0, 5685.0, 5381.0, 5622.0, 5392.0, 5572.0, 5550.0, 5637.0, 5488.0, 5556.0, 5509.0, 5548.0, 5575.0, 5324.0, 5377.0, 5281.0, 5681.0, 5507.0, 5598.0, 5298.0, 5352.0, 5388.0, 5401.0, 5380.0, 5365.0, 5677.0, 5318.0, 5717.0, 5386.0, 5409.0, 5476.0, 5415.0, 5366.0, 5555.0, 5374.0, 5662.0, 5591.0, 5304.0, 5529.0, 5302.0, 5364.0, 5448.0, 5468.0, 5686.0, 5258.0, 5551.0, 5307.0, 5616.0, 5496.0, 5461.0, 5623.0, 5446.0, 5655.0, 5433.0, 5470.0, 5460.0, 5310.0, 5455.0, 5361.0, 5699.0, 5695.0, 5557.0, 5441.0, 5700.0, 5527.0, 5603.0, 5609.0, 5515.0, 5647.0, 5305.0, 5605.0, 5387.0, 5659.0, 5703.0, 5613.0, 5544.0, 5317.0, 5716.0, 5573.0, 5559.0, 5290.0 (number of hits: 9)
9	5550	9	1	333	1	5332.0, 5363.0, 5271.0, 5442.0, 5288.0, 5500.0, 5297.0, 5448.0, 5274.0, 5705.0, 5650.0, 5320.0, 5458.0, 5447.0, 5614.0, 5295.0, 5285.0, 5709.0, 5322.0, 5453.0, 5724.0, 5591.0, 5392.0, 5491.0, 5703.0, 5619.0, 5314.0, 5584.0, 5369.0, 5693.0,

						5492.0, 5555.0, 5657.0, 5389.0, 5648.0, 5538.0, 5502.0, 5461.0, 5268.0, 5360.0, 5634.0, 5679.0, 5495.0, 5671.0, 5720.0, 5522.0, 5301.0, 5654.0, 5631.0, 5509.0, 5445.0, 5393.0, 5633.0, 5655.0, 5365.0, 5526.0, 5329.0, 5487.0, 5469.0, 5515.0, 5664.0, 5554.0, 5455.0, 5641.0, 5516.0, 5353.0, 5535.0, 5691.0, 5713.0, 5708.0, 5699.0, 5548.0, 5289.0, 5349.0, 5527.0, 5426.0, 5366.0, 5265.0, 5460.0, 5520.0, 5559.0, 5712.0, 5488.0, 5280.0, 5354.0, 5603.0, 5689.0, 5513.0, 5521.0, 5540.0, 5262.0, 5714.0, 5508.0, 5643.0, 5539.0, 5439.0, 5347.0, 5675.0, 5307.0, 5386.0 (number of hits: 8)
10	5550	9	1	333	1	5598.0, 5593.0, 5534.0, 5285.0, 5628.0, 5622.0, 5426.0, 5563.0, 5588.0, 5559.0, 5680.0, 5512.0, 5398.0, 5418.0, 5470.0, 5449.0, 5469.0, 5311.0, 5268.0, 5276.0, 5556.0, 5712.0, 5439.0, 5455.0, 5515.0, 5683.0, 5464.0, 5537.0, 5272.0, 5330.0, 5519.0, 5450.0, 5308.0, 5634.0, 5681.0, 5689.0, 5521.0, 5421.0, 5561.0, 5677.0, 5696.0, 5711.0, 5660.0, 5381.0, 5362.0, 5699.0, 5567.0, 5323.0, 5679.0, 5705.0, 5425.0, 5293.0, 5577.0, 5675.0, 5328.0, 5645.0, 5575.0, 5718.0, 5423.0, 5270.0, 5722.0, 5650.0, 5656.0, 5321.0, 5310.0, 5303.0, 5702.0, 5391.0, 5637.0, 5307.0, 5710.0, 5566.0, 5611.0, 5316.0, 5474.0, 5580.0, 5614.0, 5306.0, 5305.0, 5319.0, 5393.0, 5497.0, 5446.0, 5267.0, 5322.0, 5662.0, 5603.0, 5599.0, 5320.0, 5260.0, 5529.0, 5709.0, 5371.0, 5501.0, 5453.0, 5343.0, 5704.0, 5473.0, 5356.0, 5337.0 (number of hits: 9)
11	5550	9	1	333	1	5709.0, 5580.0, 5408.0, 5524.0, 5579.0, 5479.0, 5331.0, 5721.0, 5387.0, 5437.0, 5371.0, 5319.0, 5626.0, 5402.0, 5647.0, 5690.0, 5696.0, 5689.0, 5707.0, 5258.0, 5290.0, 5533.0, 5327.0, 5400.0, 5285.0, 5522.0, 5505.0, 5711.0, 5461.0, 5589.0, 5332.0, 5343.0, 5350.0, 5552.0, 5628.0, 5679.0, 5268.0, 5304.0, 5671.0, 5315.0, 5307.0, 5303.0, 5541.0, 5557.0, 5592.0, 5340.0, 5264.0, 5357.0, 5687.0, 5703.0, 5611.0, 5632.0, 5280.0, 5494.0, 5502.0, 5710.0, 5531.0, 5633.0, 5453.0, 5323.0, 5309.0, 5624.0, 5395.0, 5364.0, 5708.0, 5279.0, 5393.0, 5576.0, 5545.0, 5498.0, 5283.0, 5503.0, 5381.0, 5389.0, 5322.0, 5532.0, 5373.0, 5449.0, 5450.0, 5610.0, 5454.0, 5471.0, 5291.0, 5252.0, 5342.0, 5639.0, 5306.0, 5325.0, 5566.0, 5677.0, 5568.0, 5701.0, 5495.0, 5256.0, 5460.0, 5562.0, 5694.0, 5416.0, 5507.0, 5537.0 (number of hits: 8)
12	5550	9	1	333	1	5676.0, 5502.0, 5525.0, 5621.0, 5423.0, 5670.0, 5710.0, 5365.0, 5527.0, 5304.0, 5399.0, 5446.0, 5508.0, 5695.0, 5606.0,

						5274.0, 5257.0, 5293.0, 5311.0, 5432.0, 5503.0, 5696.0, 5708.0, 5648.0, 5265.0, 5576.0, 5437.0, 5357.0, 5563.0, 5620.0, 5617.0, 5314.0, 5317.0, 5577.0, 5575.0, 5300.0, 5346.0, 5387.0, 5721.0, 5419.0, 5326.0, 5542.0, 5439.0, 5519.0, 5598.0, 5720.0, 5646.0, 5671.0, 5435.0, 5285.0, 5360.0, 5319.0, 5458.0, 5703.0, 5400.0, 5689.0, 5290.0, 5595.0, 5494.0, 5629.0, 5571.0, 5581.0, 5532.0, 5656.0, 5452.0, 5487.0, 5354.0, 5592.0, 5634.0, 5718.0, 5427.0, 5469.0, 5418.0, 5587.0, 5688.0, 5334.0, 5512.0, 5438.0, 5501.0, 5623.0, 5665.0, 5543.0, 5674.0, 5705.0, 5488.0, 5294.0, 5368.0, 5299.0, 5282.0, 5538.0, 5662.0, 5526.0, 5700.0, 5675.0, 5517.0, 5699.0, 5697.0, 5410.0, 5490.0, 5313.0 (number of hits: 10)
13	5550	9	1	333	1	5643.0, 5469.0, 5264.0, 5415.0, 5316.0, 5381.0, 5586.0, 5521.0, 5443.0, 5477.0, 5476.0, 5669.0, 5429.0, 5506.0, 5532.0, 5627.0, 5630.0, 5605.0, 5339.0, 5711.0, 5610.0, 5591.0, 5480.0, 5606.0, 5371.0, 5576.0, 5259.0, 5344.0, 5254.0, 5641.0, 5319.0, 5649.0, 5308.0, 5486.0, 5424.0, 5471.0, 5346.0, 5525.0, 5600.0, 5456.0, 5255.0, 5587.0, 5571.0, 5550.0, 5694.0, 5722.0, 5512.0, 5716.0, 5289.0, 5719.0, 5336.0, 5394.0, 5553.0, 5551.0, 5531.0, 5597.0, 5564.0, 5272.0, 5570.0, 5409.0, 5589.0, 5674.0, 5500.0, 5646.0, 5709.0, 5566.0, 5612.0, 5608.0, 5583.0, 5701.0, 5364.0, 5263.0, 5573.0, 5466.0, 5673.0, 5526.0, 5504.0, 5367.0, 5678.0, 5536.0, 5621.0, 5546.0, 5493.0, 5593.0, 5432.0, 5366.0, 5363.0, 5420.0, 5393.0, 5468.0, 5251.0, 5488.0, 5625.0, 5545.0, 5687.0, 5523.0, 5565.0, 5313.0, 5704.0, 5698.0 (number of hits: 3)
14	5550	9	1	333	1	5696.0, 5633.0, 5576.0, 5372.0, 5296.0, 5642.0, 5357.0, 5598.0, 5472.0, 5320.0, 5366.0, 5591.0, 5612.0, 5637.0, 5339.0, 5285.0, 5684.0, 5340.0, 5325.0, 5619.0, 5461.0, 5304.0, 5356.0, 5298.0, 5279.0, 5519.0, 5505.0, 5630.0, 5353.0, 5478.0, 5639.0, 5417.0, 5547.0, 5711.0, 5650.0, 5311.0, 5483.0, 5562.0, 5560.0, 5554.0, 5530.0, 5404.0, 5278.0, 5627.0, 5415.0, 5397.0, 5282.0, 5538.0, 5256.0, 5531.0, 5475.0, 5462.0, 5272.0, 5529.0, 5537.0, 5718.0, 5614.0, 5551.0, 5399.0, 5401.0, 5315.0, 5556.0, 5301.0, 5266.0, 5254.0, 5628.0, 5377.0, 5682.0, 5579.0, 5692.0, 5367.0, 5471.0, 5262.0, 5354.0, 5666.0, 5419.0, 5723.0, 5484.0, 5383.0, 5616.0, 5559.0, 5497.0, 5274.0, 5669.0, 5500.0, 5324.0, 5435.0, 5421.0, 5361.0, 5620.0, 5409.0, 5459.0, 5289.0, 5721.0, 5450.0, 5557.0, 5452.0, 5379.0, 5548.0, 5522.0 (number of hits: 7)

15	5550	9	1	333	1	5283.0, 5505.0, 5457.0, 5366.0, 5554.0, 5644.0, 5604.0, 5252.0, 5348.0, 5646.0, 5365.0, 5509.0, 5627.0, 5402.0, 5266.0, 5689.0, 5433.0, 5344.0, 5522.0, 5357.0, 5261.0, 5718.0, 5621.0, 5325.0, 5374.0, 5447.0, 5355.0, 5494.0, 5507.0, 5459.0, 5256.0, 5704.0, 5618.0, 5446.0, 5314.0, 5384.0, 5568.0, 5386.0, 5679.0, 5430.0, 5461.0, 5512.0, 5700.0, 5561.0, 5290.0, 5716.0, 5710.0, 5391.0, 5358.0, 5544.0, 5532.0, 5698.0, 5425.0, 5393.0, 5674.0, 5333.0, 5440.0, 5562.0, 5483.0, 5432.0, 5712.0, 5424.0, 5643.0, 5517.0, 5575.0, 5617.0, 5549.0, 5569.0, 5278.0, 5412.0, 5316.0, 5656.0, 5332.0, 5614.0, 5624.0, 5268.0, 5566.0, 5324.0, 5354.0, 5280.0, 5619.0, 5320.0, 5472.0, 5545.0, 5642.0, 5719.0, 5581.0, 5579.0, 5435.0, 5479.0, 5620.0, 5356.0, 5523.0, 5439.0, 5407.0, 5406.0, 5585.0, 5657.0, 5714.0, 5498.0 (number of hits: 2)
16	5550	9	1	333	1	5464.0, 5577.0, 5384.0, 5322.0, 5367.0, 5412.0, 5690.0, 5686.0, 5385.0, 5615.0, 5323.0, 5622.0, 5466.0, 5488.0, 5640.0, 5675.0, 5479.0, 5706.0, 5315.0, 5624.0, 5320.0, 5297.0, 5708.0, 5658.0, 5461.0, 5601.0, 5681.0, 5495.0, 5287.0, 5350.0, 5275.0, 5417.0, 5578.0, 5261.0, 5641.0, 5538.0, 5540.0, 5721.0, 5335.0, 5679.0, 5431.0, 5311.0, 5656.0, 5265.0, 5599.0, 5363.0, 5324.0, 5652.0, 5389.0, 5498.0, 5582.0, 5331.0, 5651.0, 5650.0, 5664.0, 5279.0, 5356.0, 5395.0, 5453.0, 5685.0, 5369.0, 5507.0, 5490.0, 5355.0, 5483.0, 5719.0, 5434.0, 5473.0, 5549.0, 5317.0, 5568.0, 5519.0, 5330.0, 5491.0, 5605.0, 5646.0, 5670.0, 5338.0, 5352.0, 5447.0, 5699.0, 5442.0, 5543.0, 5517.0, 5463.0, 5585.0, 5346.0, 5283.0, 5561.0, 5603.0, 5486.0, 5502.0, 5546.0, 5420.0, 5403.0, 5626.0, 5630.0, 5432.0, 5535.0, 5446.0 (number of hits: 3)
17	5550	9	1	333	1	5552.0, 5556.0, 5399.0, 5441.0, 5338.0, 5701.0, 5652.0, 5308.0, 5394.0, 5659.0, 5410.0, 5498.0, 5288.0, 5671.0, 5397.0, 5435.0, 5280.0, 5445.0, 5648.0, 5545.0, 5536.0, 5694.0, 5523.0, 5267.0, 5322.0, 5647.0, 5572.0, 5530.0, 5683.0, 5293.0, 5553.0, 5612.0, 5501.0, 5640.0, 5430.0, 5436.0, 5429.0, 5347.0, 5613.0, 5365.0, 5513.0, 5369.0, 5657.0, 5329.0, 5260.0, 5720.0, 5360.0, 5622.0, 5464.0, 5690.0, 5719.0, 5316.0, 5402.0, 5362.0, 5507.0, 5584.0, 5709.0, 5317.0, 5433.0, 5264.0, 5645.0, 5555.0, 5525.0, 5321.0, 5295.0, 5678.0, 5349.0, 5686.0, 5283.0, 5418.0, 5309.0, 5262.0, 5544.0, 5605.0, 5596.0, 5493.0, 5527.0, 5666.0, 5373.0, 5353.0, 5465.0, 5472.0, 5426.0, 5542.0, 5615.0, 5379.0, 5470.0, 5457.0, 5654.0, 5508.0

						5561.0, 5466.0, 5452.0, 5510.0, 5367.0, 5722.0, 5617.0, 5529.0, 5377.0, 5276.0 (number of hits: 5)
18	5550	9	1	333	1	5480.0, 5609.0, 5553.0, 5703.0, 5357.0, 5594.0, 5674.0, 5266.0, 5650.0, 5433.0, 5288.0, 5381.0, 5255.0, 5723.0, 5514.0, 5473.0, 5500.0, 5299.0, 5631.0, 5567.0, 5664.0, 5677.0, 5492.0, 5277.0, 5552.0, 5679.0, 5423.0, 5412.0, 5624.0, 5547.0, 5409.0, 5392.0, 5403.0, 5508.0, 5559.0, 5647.0, 5630.0, 5541.0, 5386.0, 5464.0, 5509.0, 5338.0, 5528.0, 5405.0, 5426.0, 5695.0, 5407.0, 5484.0, 5453.0, 5475.0, 5267.0, 5441.0, 5292.0, 5543.0, 5635.0, 5668.0, 5694.0, 5479.0, 5520.0, 5641.0, 5340.0, 5421.0, 5389.0, 5525.0, 5566.0, 5646.0, 5507.0, 5415.0, 5607.0, 5470.0, 5293.0, 5585.0, 5298.0, 5455.0, 5589.0, 5623.0, 5391.0, 5396.0, 5533.0, 5596.0, 5312.0, 5285.0, 5697.0, 5481.0, 5510.0, 5685.0, 5378.0, 5352.0, 5408.0, 5371.0, 5477.0, 5474.0, 5720.0, 5494.0, 5572.0, 5286.0, 5341.0, 5297.0, 5319.0, 5349.0 (number of hits: 9)
19	5550	9	1	333	1	5532.0, 5317.0, 5280.0, 5641.0, 5555.0, 5636.0, 5508.0, 5480.0, 5647.0, 5383.0, 5337.0, 5585.0, 5284.0, 5273.0, 5531.0, 5591.0, 5582.0, 5401.0, 5369.0, 5288.0, 5333.0, 5320.0, 5405.0, 5477.0, 5315.0, 5428.0, 5705.0, 5347.0, 5479.0, 5534.0, 5392.0, 5554.0, 5657.0, 5527.0, 5459.0, 5396.0, 5265.0, 5253.0, 5359.0, 5614.0, 5283.0, 5651.0, 5702.0, 5494.0, 5654.0, 5697.0, 5666.0, 5549.0, 5612.0, 5355.0, 5362.0, 5263.0, 5701.0, 5716.0, 5441.0, 5399.0, 5685.0, 5547.0, 5397.0, 5637.0, 5586.0, 5380.0, 5499.0, 5306.0, 5290.0, 5384.0, 5597.0, 5367.0, 5625.0, 5546.0, 5371.0, 5404.0, 5420.0, 5336.0, 5575.0, 5522.0, 5679.0, 5706.0, 5296.0, 5693.0, 5710.0, 5395.0, 5660.0, 5723.0, 5573.0, 5429.0, 5450.0, 5439.0, 5653.0, 5421.0, 5324.0, 5318.0, 5354.0, 5481.0, 5316.0, 5350.0, 5447.0, 5356.0, 5627.0, 5638.0 (number of hits: 4)
20	5550	9	1	333	1	5654.0, 5399.0, 5506.0, 5433.0, 5260.0, 5686.0, 5582.0, 5703.0, 5332.0, 5414.0, 5634.0, 5546.0, 5485.0, 5372.0, 5626.0, 5678.0, 5331.0, 5609.0, 5535.0, 5673.0, 5493.0, 5325.0, 5460.0, 5354.0, 5408.0, 5338.0, 5532.0, 5316.0, 5463.0, 5432.0, 5421.0, 5464.0, 5373.0, 5608.0, 5709.0, 5588.0, 5649.0, 5317.0, 5395.0, 5337.0, 5566.0, 5712.0, 5713.0, 5357.0, 5698.0, 5641.0, 5314.0, 5635.0, 5573.0, 5469.0, 5570.0, 5565.0, 5270.0, 5534.0, 5601.0, 5452.0, 5507.0, 5505.0, 5334.0, 5681.0, 5557.0, 5426.0, 5547.0, 5423.0, 5306.0, 5520.0, 5579.0, 5413.0, 5359.0, 5593.0, 5630.0, 5403.0, 5286.0, 5307.0, 5599.0,

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22	5550	9	1	333	1	5637.0, 5320.0, 5696.0, 5580.0, 5364.0, 5442.0, 5537.0, 5593.0, 5556.0, 5645.0, 5630.0, 5613.0, 5262.0, 5270.0, 5345.0, 5712.0, 5338.0, 5691.0, 5539.0, 5423.0, 5275.0, 5380.0, 5624.0, 5666.0, 5314.0, 5591.0, 5339.0, 5601.0, 5698.0, 5309.0, 5545.0, 5528.0, 5404.0, 5578.0, 5352.0, 5549.0, 5629.0, 5658.0, 5659.0, 5602.0, 5643.0, 5413.0, 5308.0, 5402.0, 5504.0, 5615.0, 5628.0, 5378.0, 5558.0, 5332.0, 5681.0, 5347.0, 5690.0, 5656.0, 5478.0, 5469.0, 5612.0, 5570.0, 5616.0, 5310.0, 5597.0, 5426.0, 5532.0, 5317.0, 5523.0, 5607.0, 5410.0, 5474.0, 5438.0, 5356.0, 5411.0, 5684.0, 5443.0, 5640.0, 5605.0, 5463.0, 5374.0, 5278.0, 5635.0, 5348.0, 5663.0, 5459.0, 5552.0, 5565.0, 5448.0, 5571.0, 5487.0, 5559.0, 5268.0, 5280.0, 5424.0, 5563.0, 5257.0, 5439.0, 5623.0, 5397.0, 5433.0, 5502.0, 5660.0, 5648.0 (number of hits: 4)
23	5550	9	1	333	1	5586.0, 5607.0, 5324.0, 5428.0, 5715.0, 5722.0, 5364.0, 5316.0, 5265.0, 5301.0, 5482.0, 5550.0, 5605.0, 5302.0, 5464.0, 5524.0, 5378.0, 5609.0, 5707.0, 5259.0, 5360.0, 5426.0, 5712.0, 5282.0, 5622.0, 5315.0, 5487.0, 5465.0, 5518.0, 5714.0, 5291.0, 5445.0, 5332.0, 5664.0, 5556.0, 5596.0, 5653.0, 5509.0, 5516.0, 5697.0, 5532.0, 5369.0, 5358.0, 5581.0, 5318.0, 5418.0, 5507.0, 5381.0, 5404.0, 5454.0, 5460.0, 5673.0, 5321.0, 5547.0, 5328.0, 5260.0, 5489.0, 5263.0, 5385.0, 5475.0,

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28	5550	9	1	333	1	5552.0, 5496.0, 5417.0, 5583.0, 5377.0, 5337.0, 5257.0, 5452.0, 5281.0, 5535.0, 5711.0, 5503.0, 5529.0, 5362.0, 5290.0, 5495.0, 5691.0, 5511.0, 5585.0, 5437.0, 5459.0, 5517.0, 5322.0, 5338.0, 5415.0, 5683.0, 5282.0, 5467.0, 5462.0, 5413.0, 5523.0, 5374.0, 5486.0, 5621.0, 5291.0, 5526.0, 5494.0, 5597.0, 5435.0, 5501.0, 5586.0, 5318.0, 5259.0, 5440.0, 5608.0, 5254.0, 5690.0, 5615.0, 5352.0, 5301.0, 5364.0, 5311.0, 5697.0, 5410.0, 5512.0, 5548.0, 5513.0, 5453.0, 5378.0, 5464.0, 5576.0, 5356.0, 5554.0, 5331.0, 5408.0, 5299.0, 5612.0, 5618.0, 5392.0, 5269.0, 5519.0, 5709.0, 5473.0, 5271.0, 5310.0, 5565.0, 5679.0, 5375.0, 5354.0, 5488.0, 5267.0, 5603.0, 5468.0, 5313.0, 5292.0, 5303.0, 5536.0, 5610.0, 5358.0, 5327.0, 5617.0, 5479.0, 5323.0, 5389.0, 5664.0, 5333.0, 5339.0, 5275.0, 5306.0, 5268.0 (number of hits: 10)
29	5550	9	1	333	1	5579.0, 5310.0, 5565.0, 5481.0, 5446.0, 5266.0, 5632.0, 5647.0, 5268.0, 5485.0, 5678.0, 5444.0, 5250.0, 5692.0, 5505.0, 5525.0, 5399.0, 5455.0, 5627.0, 5380.0, 5507.0, 5685.0, 5447.0, 5682.0, 5370.0, 5298.0, 5653.0, 5474.0, 5434.0, 5545.0,

						5313.0, 5317.0, 5711.0, 5684.0, 5680.0, 5683.0, 5638.0, 5306.0, 5563.0, 5712.0, 5291.0, 5639.0, 5261.0, 5469.0, 5543.0, 5325.0, 5323.0, 5509.0, 5524.0, 5686.0, 5504.0, 5269.0, 5531.0, 5490.0, 5412.0, 5255.0, 5292.0, 5334.0, 5471.0, 5453.0, 5450.0, 5649.0, 5523.0, 5379.0, 5413.0, 5381.0, 5458.0, 5673.0, 5459.0, 5257.0, 5463.0, 5558.0, 5468.0, 5302.0, 5305.0, 5371.0, 5360.0, 5355.0, 5339.0, 5538.0, 5723.0, 5422.0, 5321.0, 5675.0, 5341.0, 5332.0, 5362.0, 5357.0, 5561.0, 5715.0, 5603.0, 5296.0, 5513.0, 5671.0, 5519.0, 5438.0, 5512.0, 5651.0, 5283.0, 5695.0 (number of hits: 9)
30	5550	9	1	333	1	5479.0, 5569.0, 5598.0, 5416.0, 5389.0, 5649.0, 5383.0, 5483.0, 5436.0, 5563.0, 5637.0, 5458.0, 5260.0, 5406.0, 5532.0, 5382.0, 5673.0, 5472.0, 5612.0, 5566.0, 5620.0, 5574.0, 5438.0, 5650.0, 5250.0, 5545.0, 5705.0, 5720.0, 5718.0, 5304.0, 5265.0, 5481.0, 5634.0, 5352.0, 5622.0, 5367.0, 5433.0, 5512.0, 5296.0, 5597.0, 5496.0, 5692.0, 5554.0, 5536.0, 5533.0, 5621.0, 5647.0, 5674.0, 5485.0, 5670.0, 5478.0, 5699.0, 5440.0, 5684.0, 5550.0, 5613.0, 5672.0, 5473.0, 5318.0, 5421.0, 5707.0, 5415.0, 5509.0, 5493.0, 5418.0, 5523.0, 5409.0, 5452.0, 5578.0, 5724.0, 5689.0, 5371.0, 5365.0, 5491.0, 5492.0, 5285.0, 5710.0, 5551.0, 5519.0, 5638.0, 5474.0, 5599.0, 5264.0, 5614.0, 5668.0, 5428.0, 5568.0, 5503.0, 5543.0, 5423.0, 5432.0, 5696.0, 5624.0, 5443.0, 5278.0, 5584.0, 5261.0, 5542.0, 5662.0, 5271.0 (number of hits: 3)

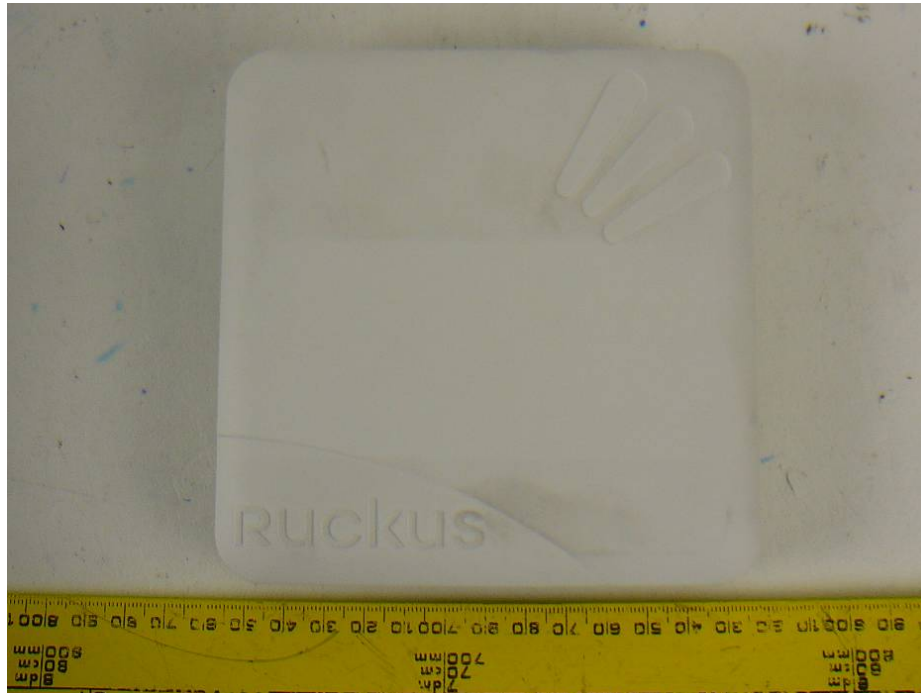
10 Appendix A – Test Setup Photographs

10.1 Test Setup View

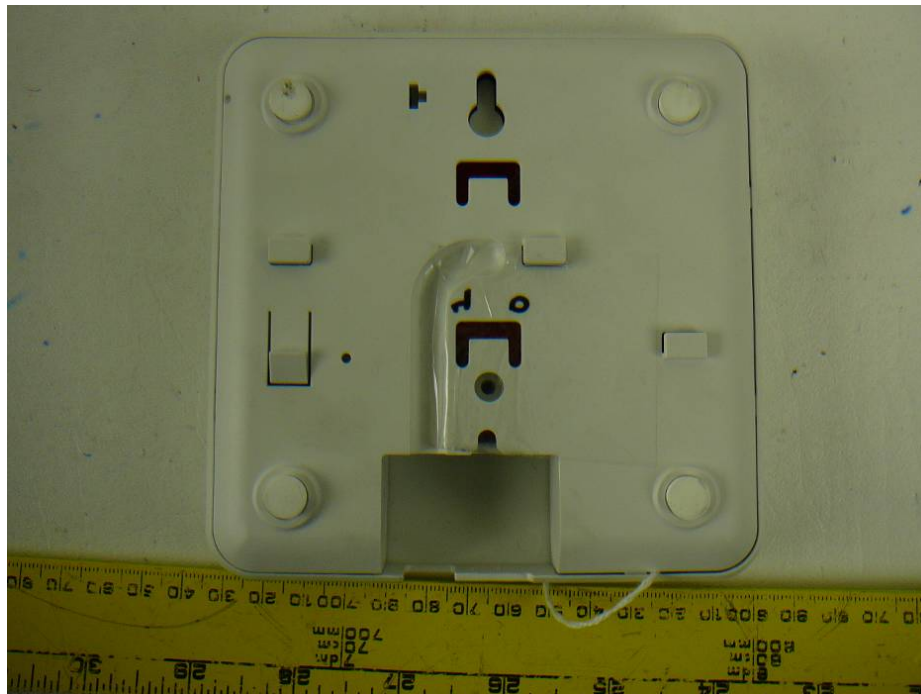


11 Appendix B - EUT Photographs

11.1 EUT – Front View



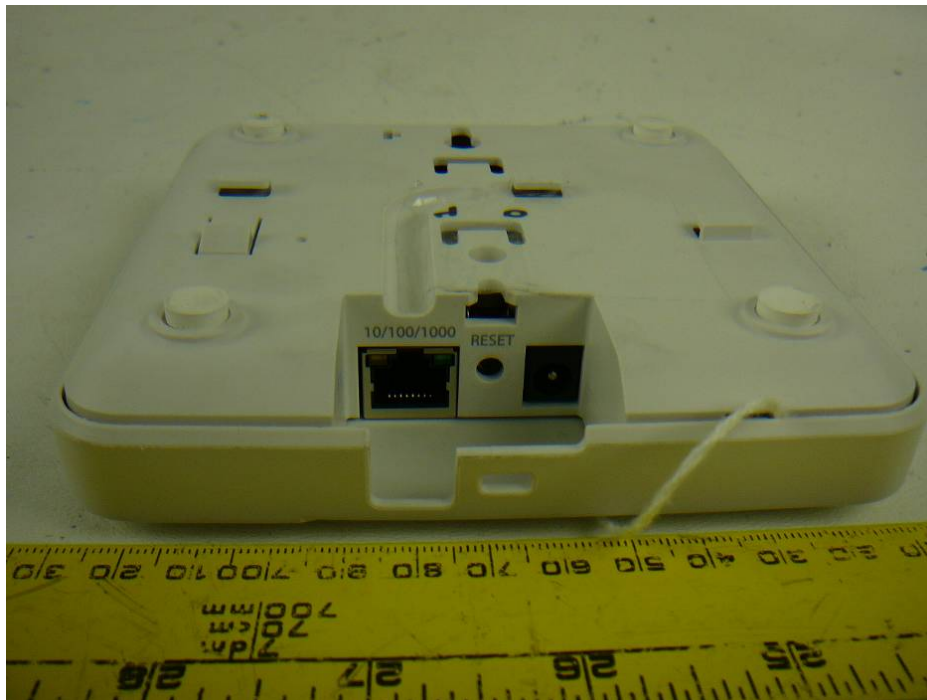
11.2 EUT – Bottom View



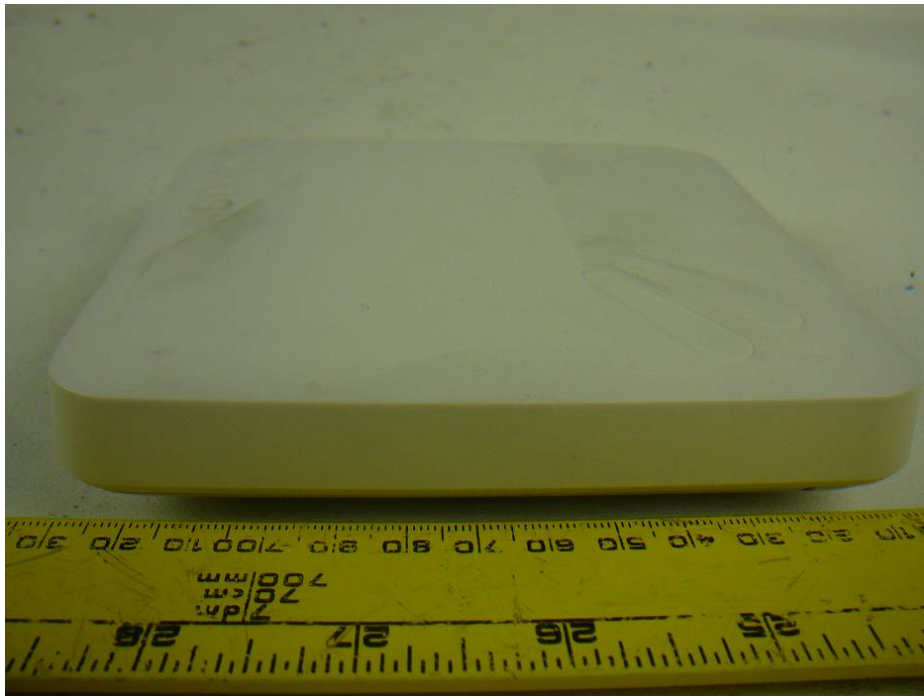
11.3 EUT – Front View



11.4 EUT – Rear (Port) View



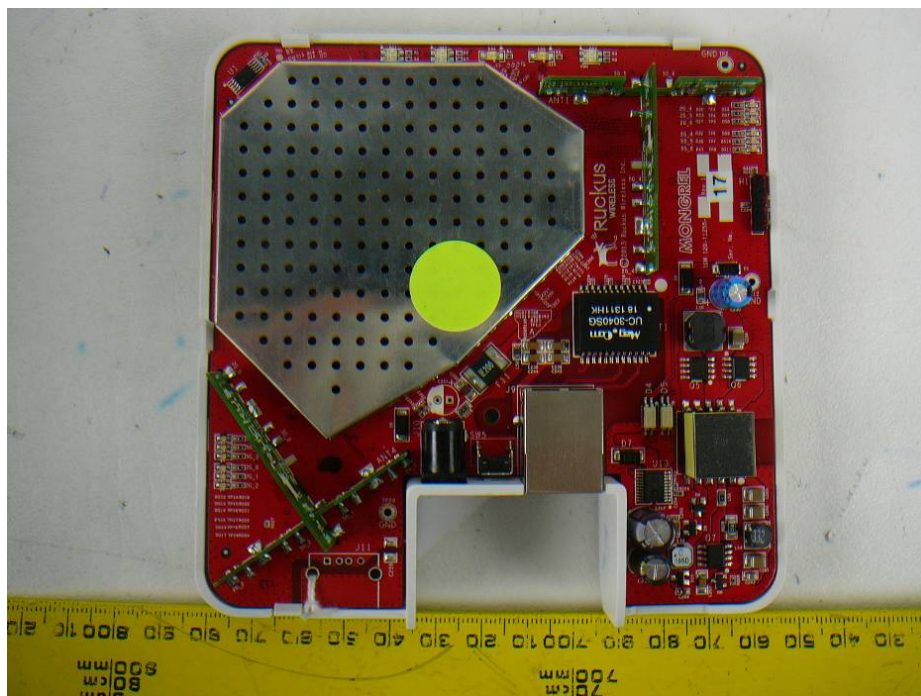
11.5 EUT – Side View (1)



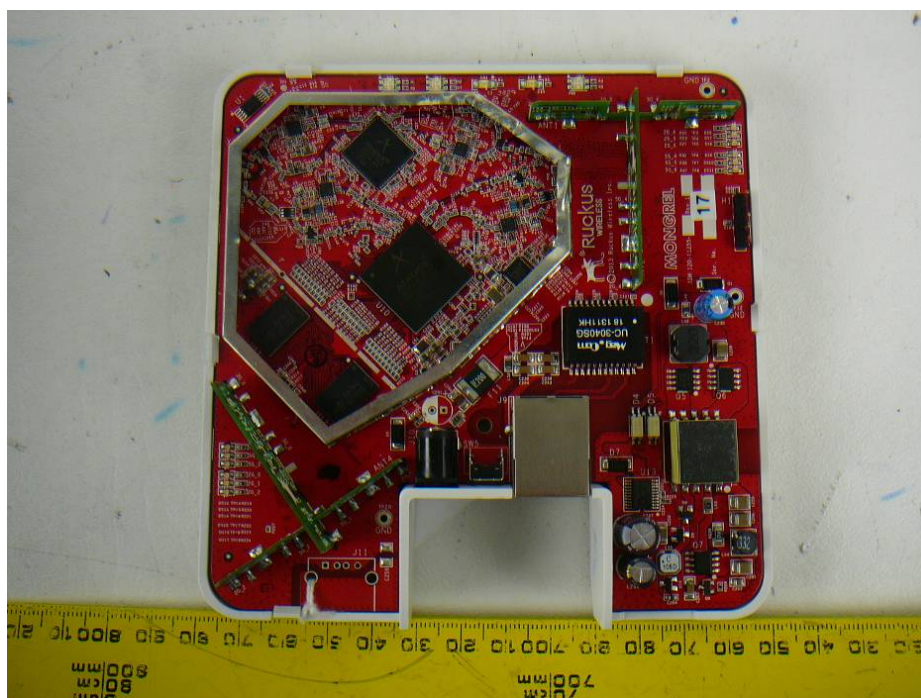
11.6 EUT – Side View (2)



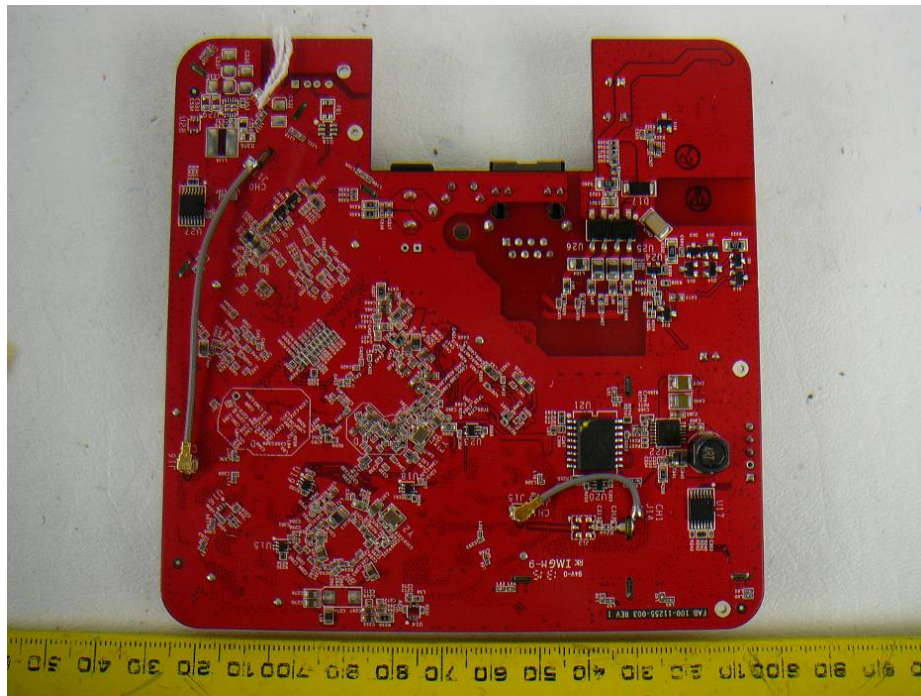
11.7 EUT – Main PCB Board Component View (with Shielding)



11.8 EUT – Main PCB Board Component View (without Shielding)



11.9 EUT – Main PCB Board Back View



11.10 EUT – POE Switch



--- END OF REPORT ---