



FCC PART 15.407(H)
IC RSS-210, ISSUE 8, DEC 2010
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

Ruckus Wireless, Inc.

350 West Java Drive,
Sunnyvale, CA 94089 USA

FCC ID: S9GZF7372
IC: 5912A-ZF7372

Report Type: Original Report	Equipment Type: 802.11a/b/g/n Access Point
Prepared By: Ning Ma	
Report No.: R1209061-FCC DFS	
Report Date: 2012-11-30	
Reviewed By: Victor Zhang	
EMC/RF Lead	
Bay Area Compliance Laboratories Corporation (BACL) 1274 Anvilwood Avenue, Sunnyvale, CA 94089, USA Tel: (408) 732-9162 Fax: (408) 732 9164	

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* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “*” (Rev 1.0)

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1209061-FCC DFS	Original Report	2012-11-30

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 model: *ZoneFlex 7372*, FCC ID: S9GZF7372, IC: 5912A-ZF7372, or hence therefore the “EUT,” as referred to in this report. The EUT is a 2x2 MIMO 802.11 a/b/g/n RLAN Access Point.

1.2 Mechanical Description of EUT

The EUT measures approximately 160 cm (L) x 160 cm (W) x 35 cm (H) and weighs 334.5g.

The test data gathered are from typical production sample, serial number: 407 provided by the manufacturer

1.3 Objective

This report is prepared on behalf of *Ruckus Wireless, Inc* in accordance with FCC CFR47 §15.407 (h), FCC 06-96 Appendix and RSS-210, Issue 8, Dec 2010.

The objective is to determine compliance with FCC and RSS rules for Non-Occupancy Period, DFS Detection Threshold, Channel Availability Check Time, Uniform Spreading U-NII Detection Bandwidth, Channel Closing Transmission Time, and Channel Move time for adding DFS band 5250-5350MHz and 5475-5725MHz

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part 2, Part 15.407 (h) and RSS- 210 A9.3.

FCC 06-96 Appendix “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5475-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION”

RSS-210 DFS for device operating in the bands 5250-5350 MHz, 5475-5725 MHz.

1.6 Test Facility

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 C63.4-2003, 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 ANSI C63.4-2003.

The EUT was tested in a testing mode to represent worst-case results during the final qualification test.

The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power, peak power and PPSD across all data rates bandwidths, and modulations.

2.2 EUT Exercise Software

The test utility used was St Bernard Art_Ver_2_18_2 was provided by Ruckus Wireless, Inc., and was verified Jeffrey Wu to comply with the standard requirements being tested against.

2.3 Equipment Modifications

No modifications were made to the EUT.

2.4 Special Accessories

There were no special accessories were required, included, or intended for use with EUT during these tests.

2.5 Local Support Equipment

Manufacturer	Description	Model	Serial Number
DELL	Laptop	Latitude E5420	-

2.6 EUT Internal Configuration

Manufacturer	Description	Model	Serial Number
Ruckus	Motherboard	St. Bernard ASM 120-11214 REV 4	71150401520128H04A
Ruckus	Antenna (2.4 GHz)	ZF7300 Horizontal	-
Ruckus	Antenna (2.4 GHz)	ZF7300 Vertical	-
Ruckus	Antenna (5 GHz)	ZF7300 Horizontal	-
Ruckus	Antenna (5 GHz)	ZF7300 Vertical	-

2.7 Interface Ports and Cables

Cable Description	Length (m)	To	From
RF Cable	<1.0	PSA	EUT
RJ 45 Cable	<1.0	LAPTOP	EUT

2.8 Power Supply List and Details

Manufacturer	Description	Model	Part Number
Ruckus	Power Supply	HK-AD-120A100-US	740-64190-001
Ruckus	POE	NPE-5818	-
Ruckus	POE Power Adapter	8A201WU48	740-64125-010

3 Summary of Test Results

The following result table represents the list of measurements required under the CFR 47 Part 15.407 (h), FCC 06-96 and IC RSS-210.

Items	Description of Test	Result
Detection Bandwidth	UNII Detection Bandwidth	Compliant
Performance Requirements Check	Initial Channel Availability Check Time (CAC)	Compliant
	Radar Burst at the Beginning of the CAC	Compliant
	Radar Burst at the End of the CAC	Compliant
In-Service Monitoring	Channel Move Time	Compliant
	Channel Closing Transmission Time	Compliant
	Non-Occupancy Period	Compliant
Radar Detection	Statistical Performance Check	Compliant

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), FCC 06-96 Appendix and IC RSS-210.

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

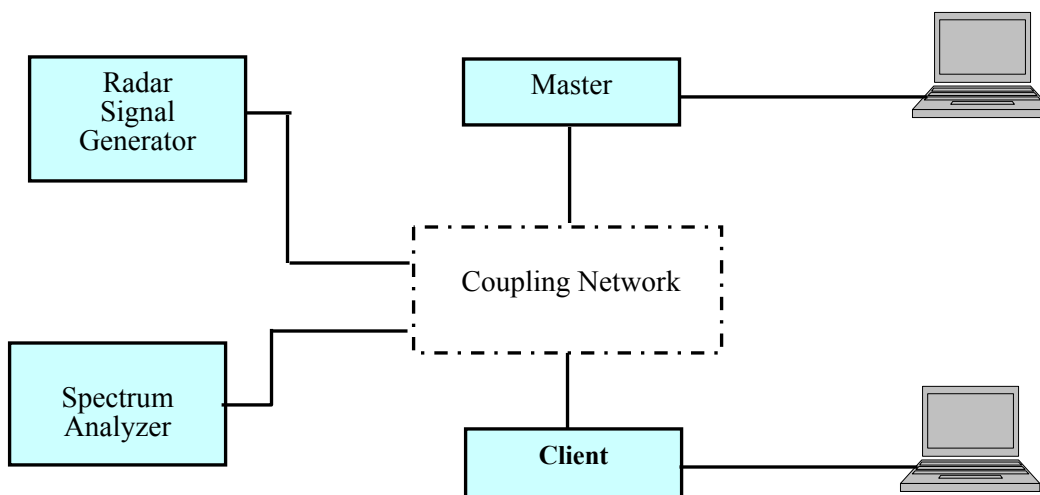
Table 7: Frequency Hopping Radar Test Signal

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

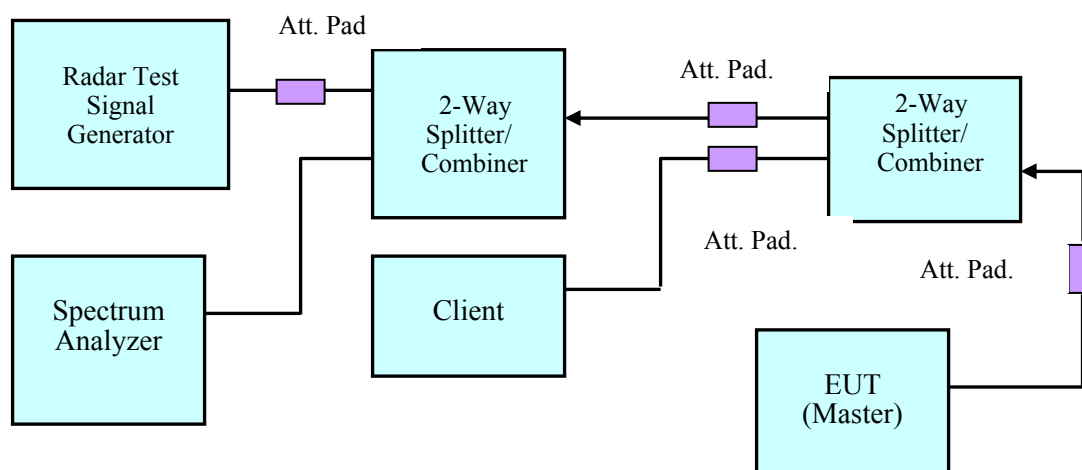
4.2 DFS Measurement System

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

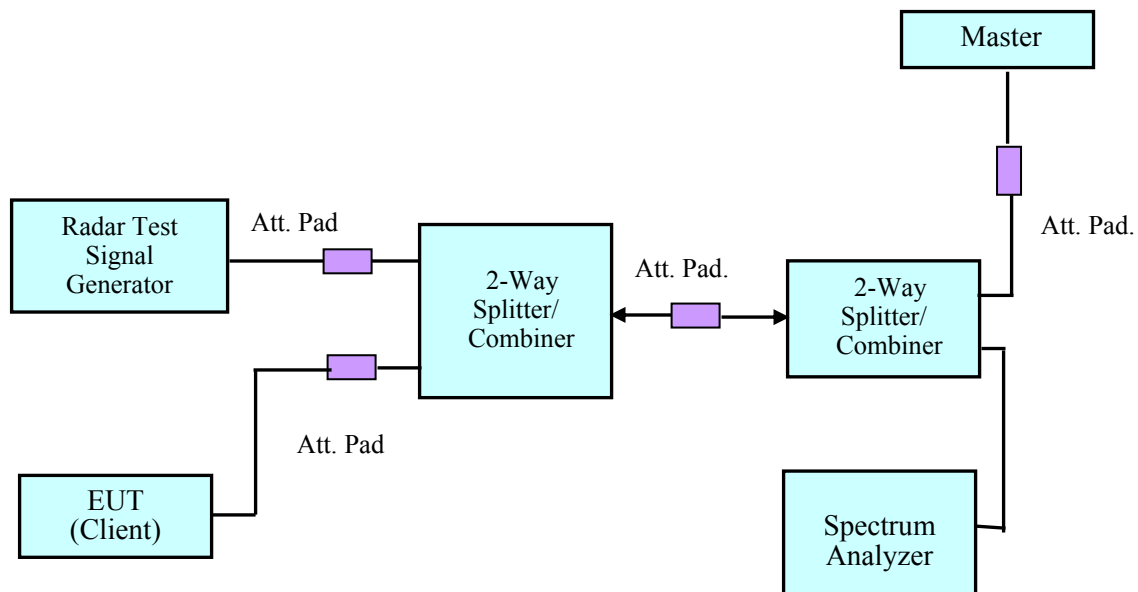
4.3 System Block Diagram



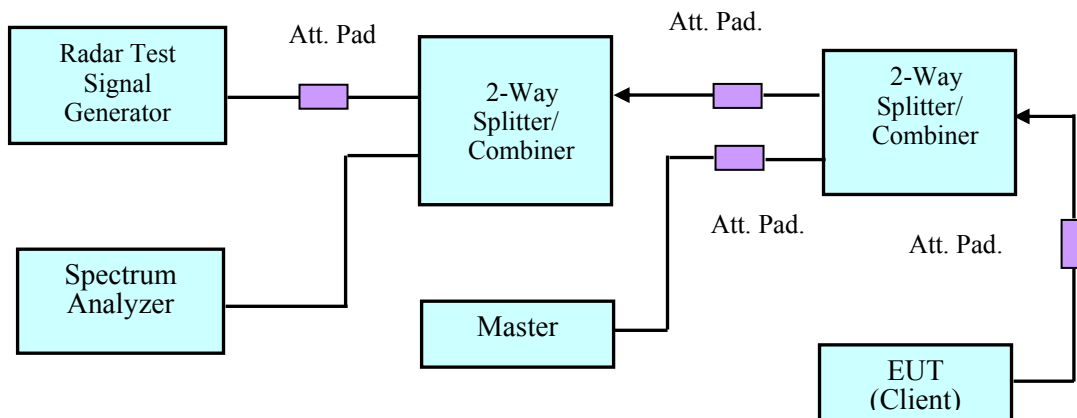
4.4 Conducted Method



Setup for Master with injection at the Master

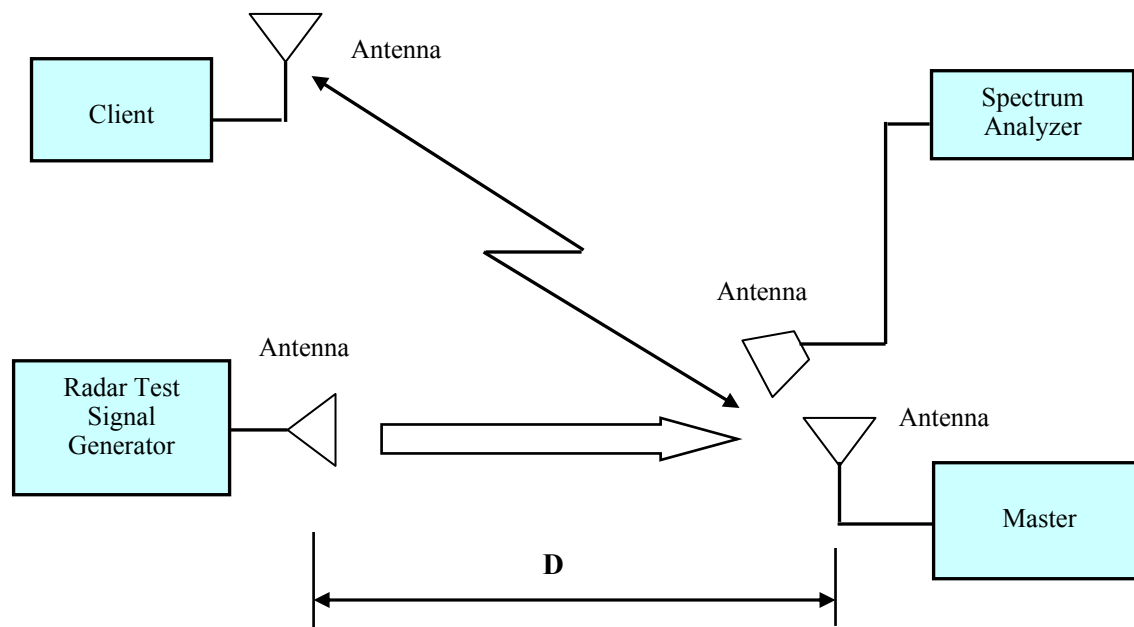


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

The rated output power of EUT is >23 dBm (EIRP) at 5250-5350MHz, Therefore the required interference threshold level is -64 dBm, the required radiated threshold at antenna port is -64dBm.

The rated output power of EUT is <23 dBm (EIRP) at 5470-5725MHz, Therefore the required interference threshold level is -62 dBm, the required radiated threshold at antenna port is -62dBm.

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

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

Test result show that the EUT requires 27.4 seconds to complete its initial power-up cycle.

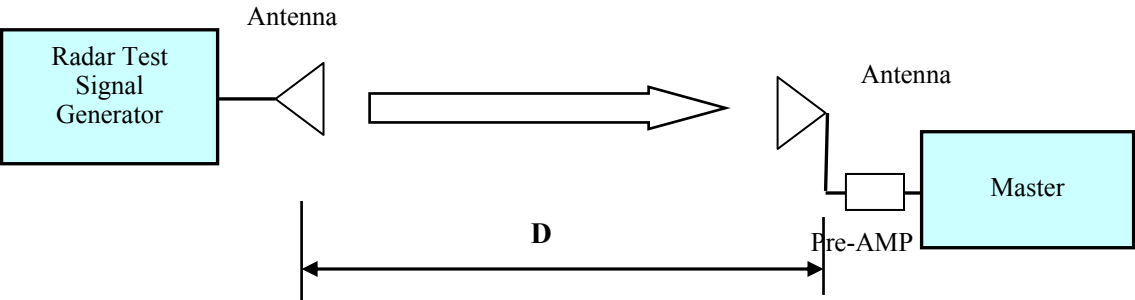
The EUT will not work on 5600-5650MHz band.

5.2 Test Equipment List and Details

Manufacturer	Equipment Description	Model Number	S/N	Calibration Date	Calibration Interval
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A	N/A
ASCOR	Upconverter	AS-7206	N/A	N/A	N/A
Agilent	Spectrum Analyzer	E4440A	US45303156	2012-08-22	2 Year
Avantek	Pre-Amplifier	2-8 GHz Lab AMP	218	N/A	N/A
Ducommun Technologies	Pre-Amplifier	ALN-09173030-01	990297-02	N/A	N/A
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A	N/A
Mini-Circuits	Pre-amplifier	ZVA-183-S	570400946	2012-05-09	1 year
Sunol Science Corp	Horn Antenna	DHR-118	A052704	2012-02-24	1 year
Midwest	Attenuator	290-30	N/A	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A	N/A

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

5.3 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

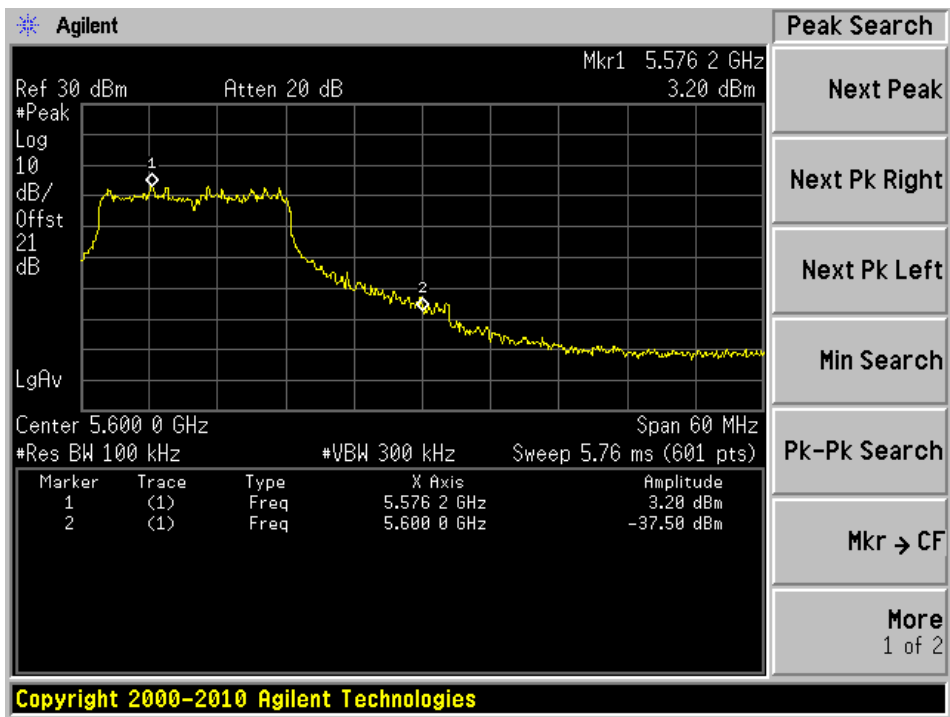
5.4 Test Environmental Conditions

Temperature:	22 °C
Relative Humidity:	43.8 %
ATM Pressure:	101.5 mbar

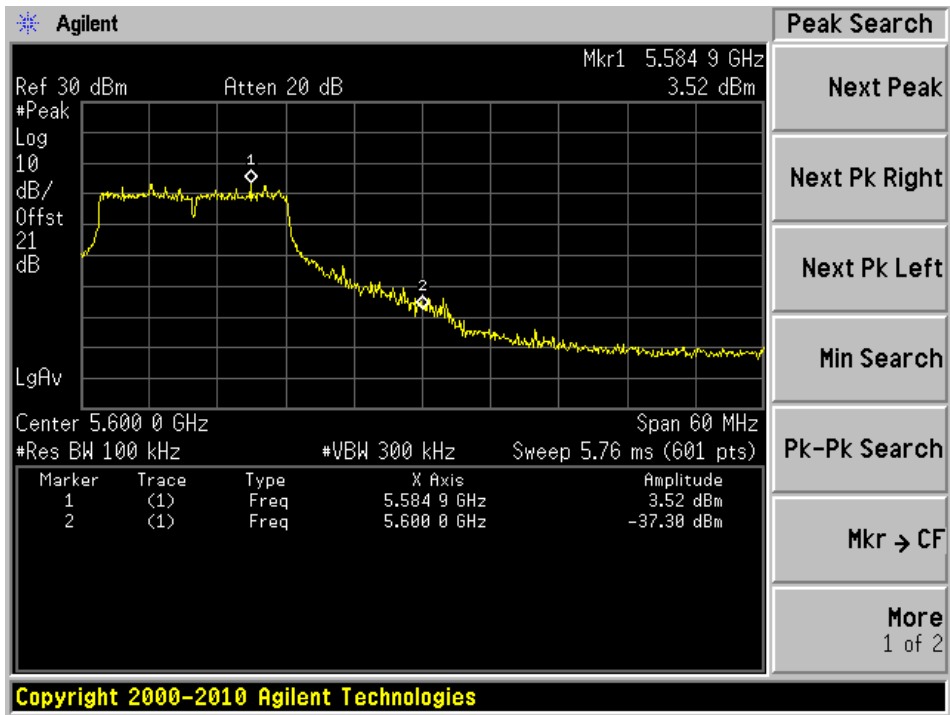
Testing performed by Ning Ma on 2012-11-13 at DFS testing site.

Band Edge:

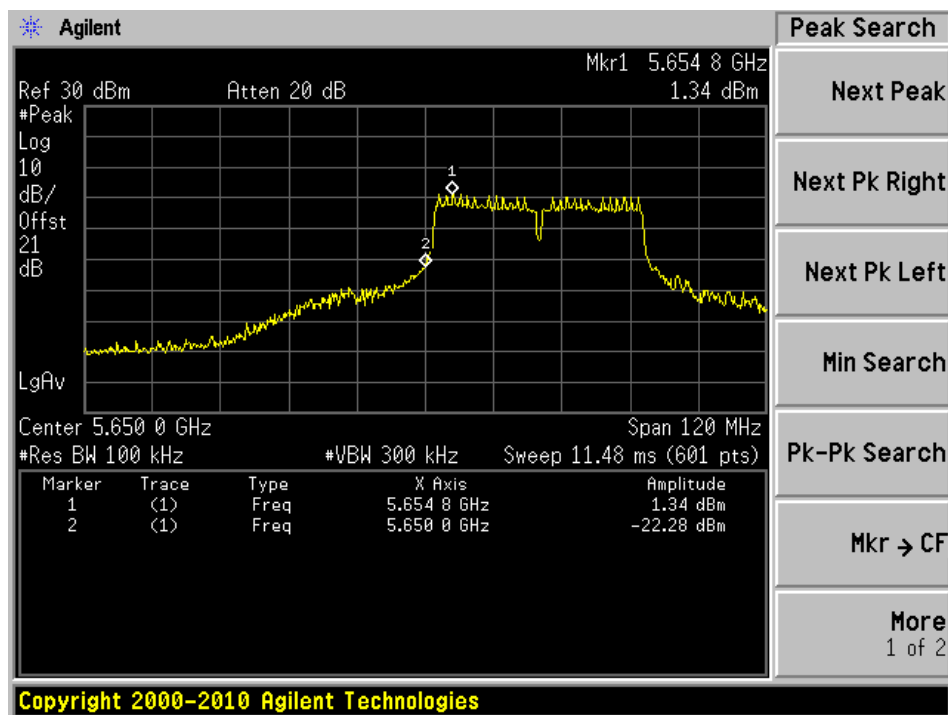
5600 MHz Chain 0



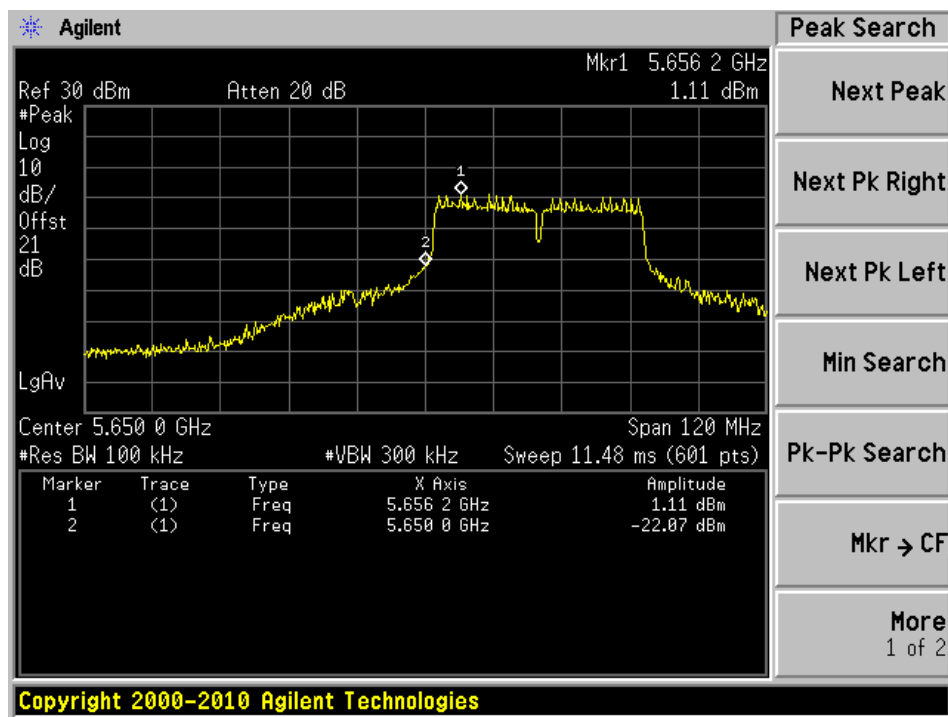
5600 MHz Chain 1



5650 MHz Chain 0



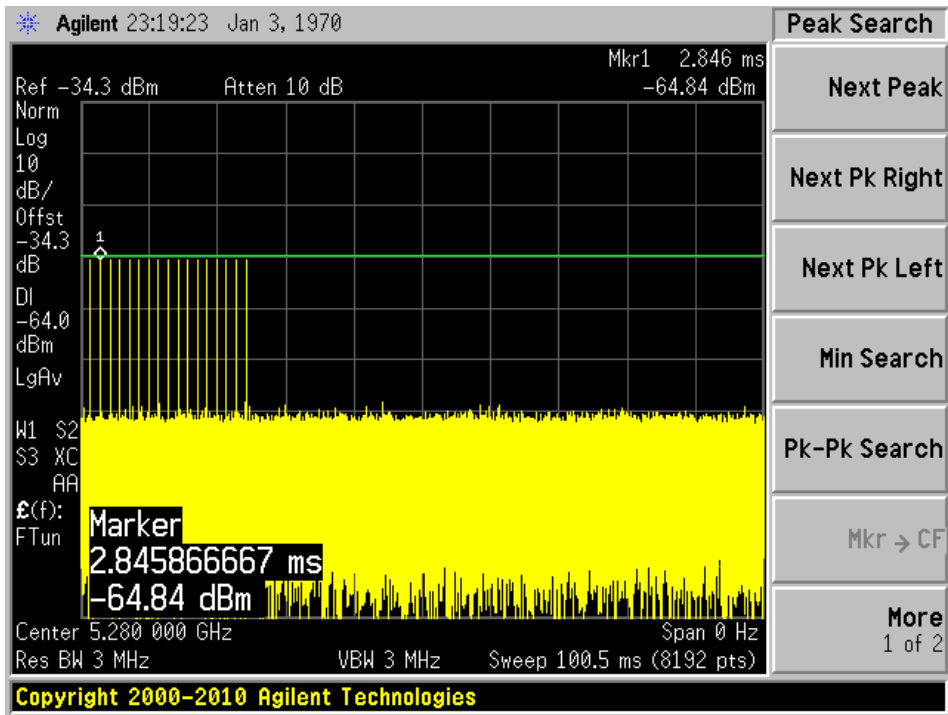
5650 MHz Chain 1



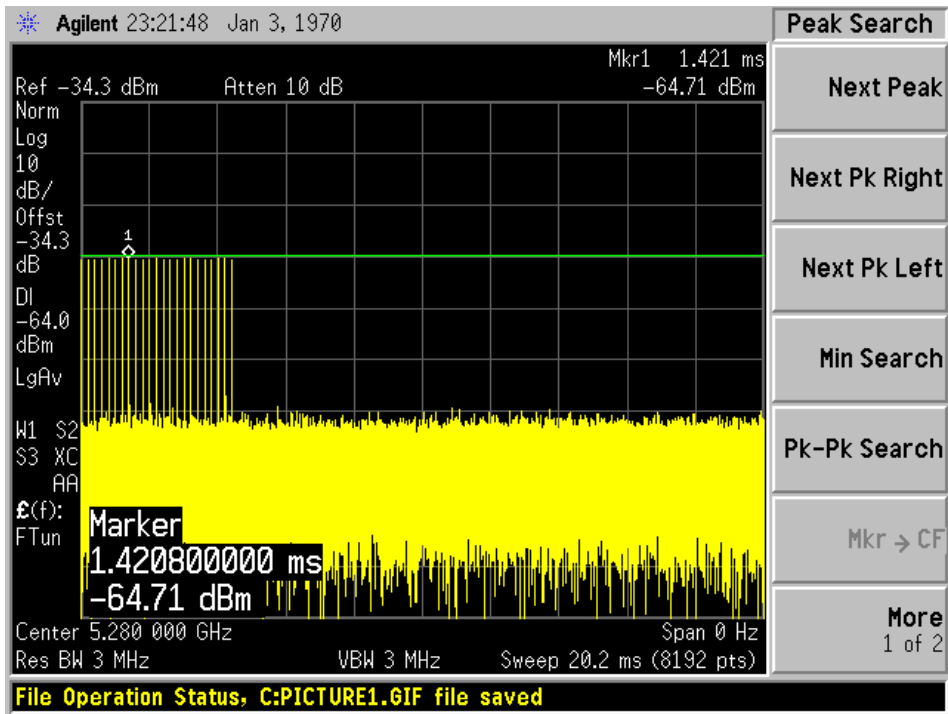
Plots of Radar Waveforms

5280 MHz

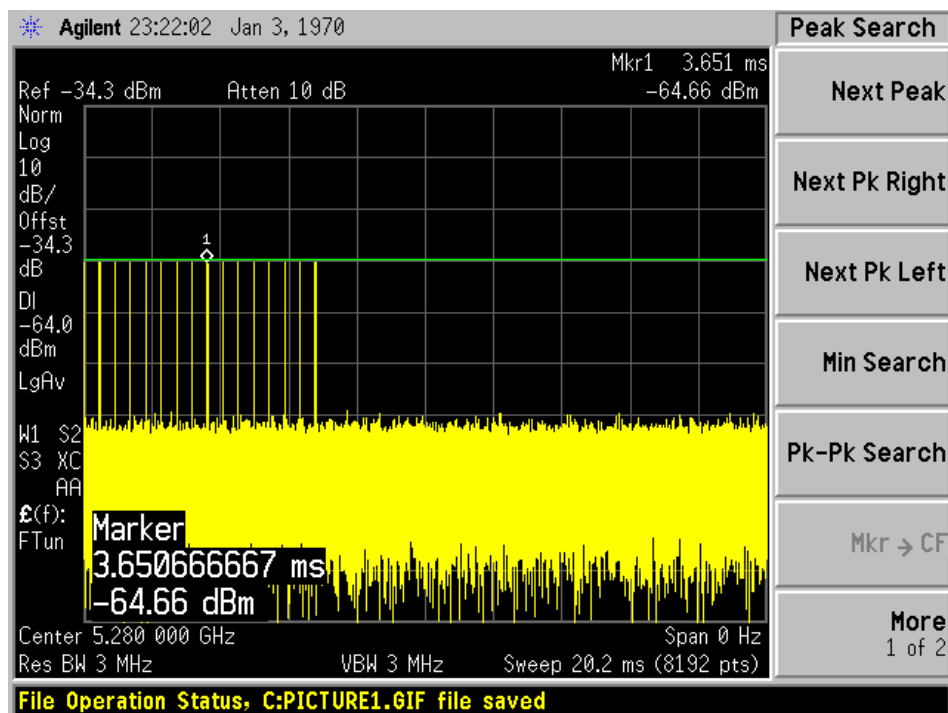
Radar Type 1



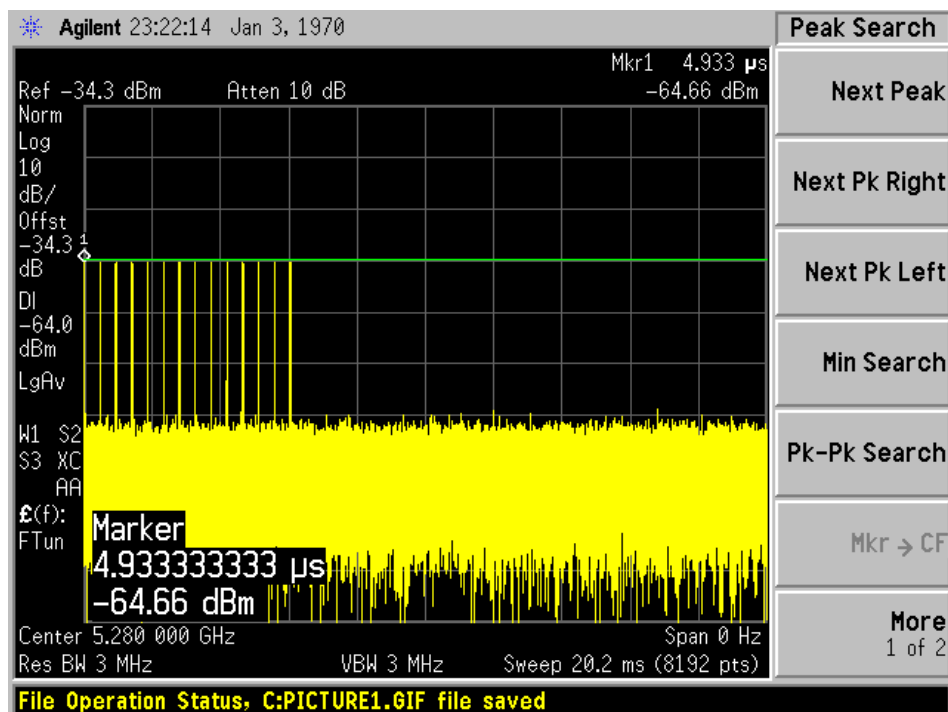
Radar Type 2



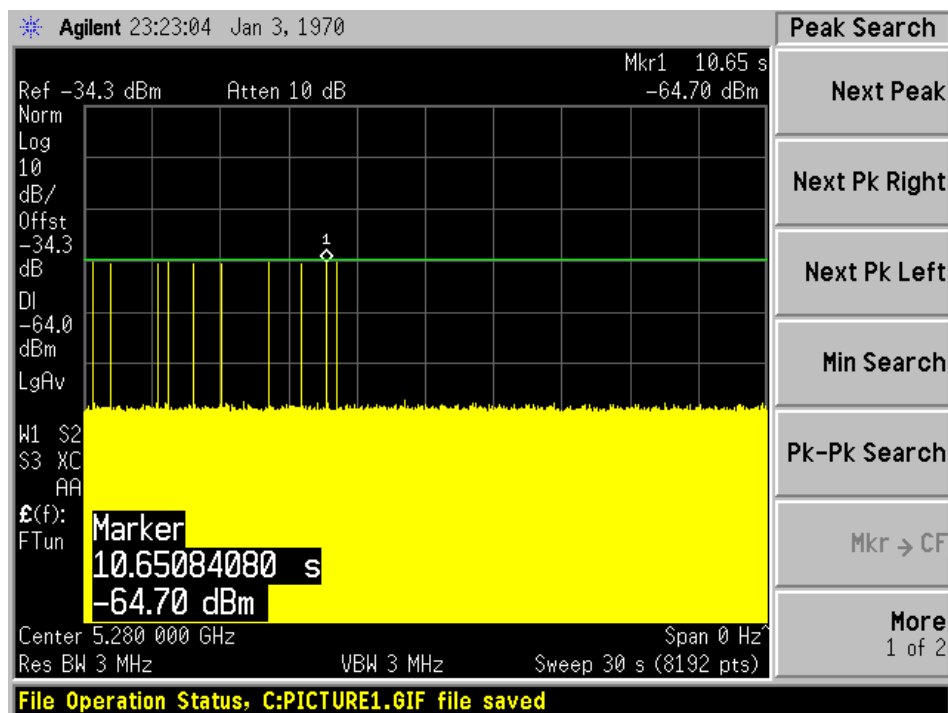
Radar Type 3



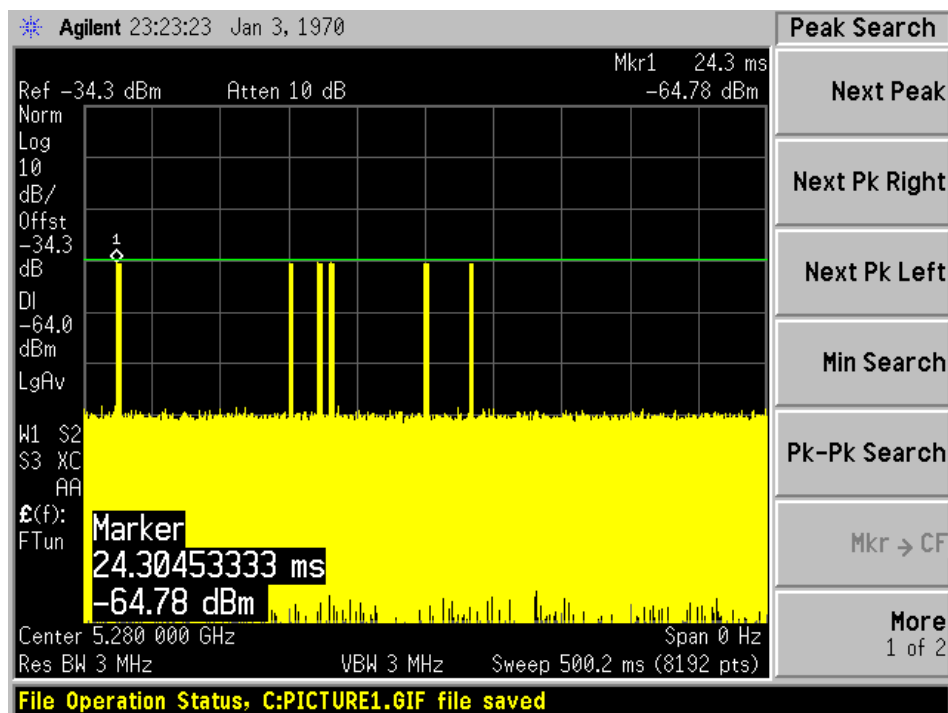
Radar Type 4



Radar Type 5

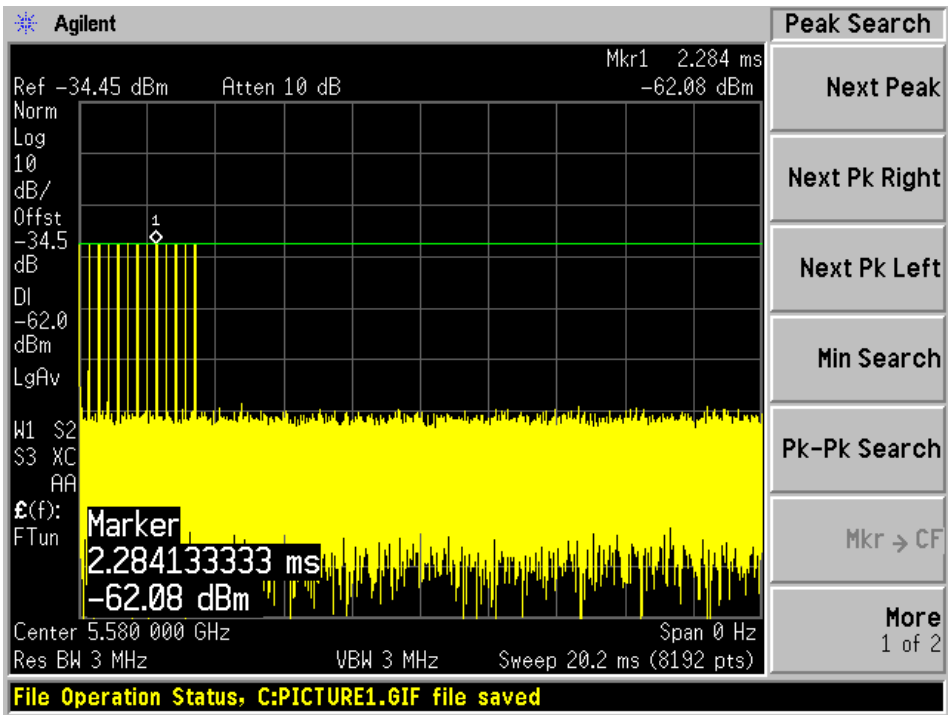


Radar Type 6

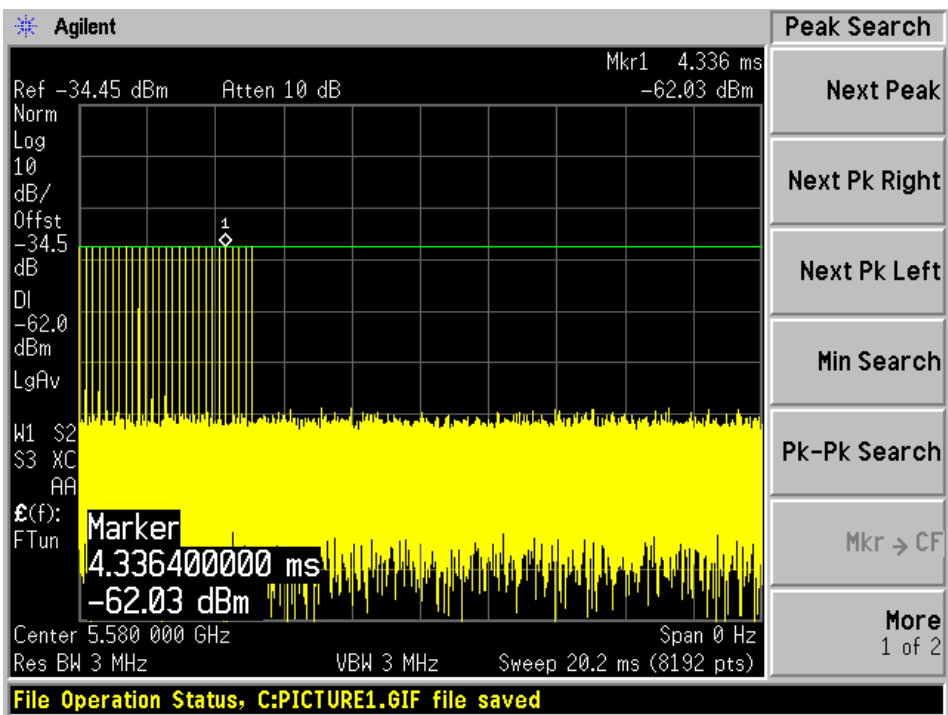


5580 MHz

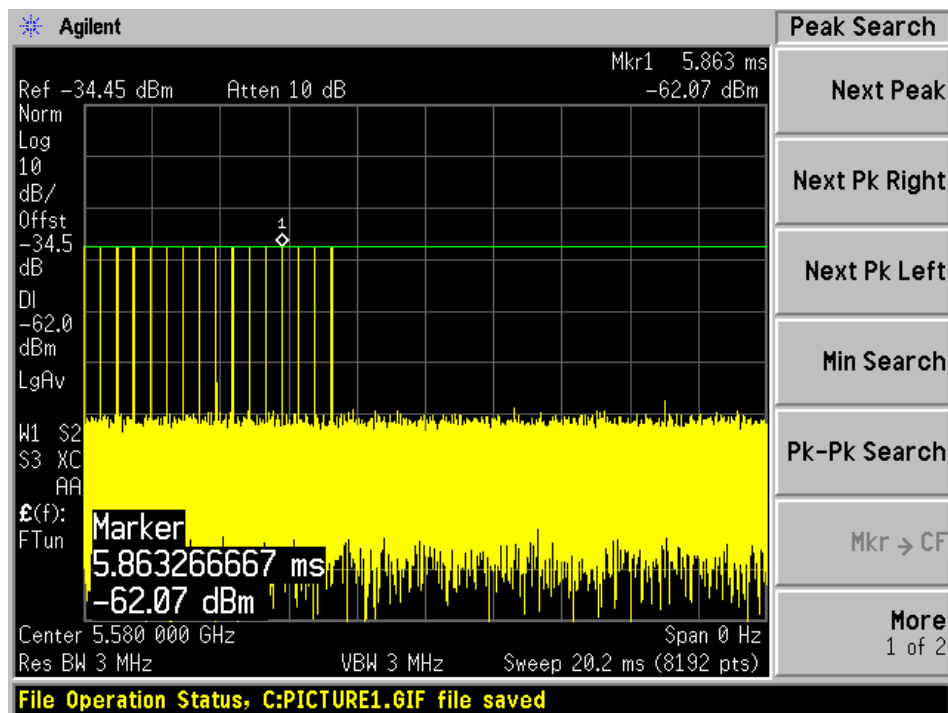
Radar Type 1



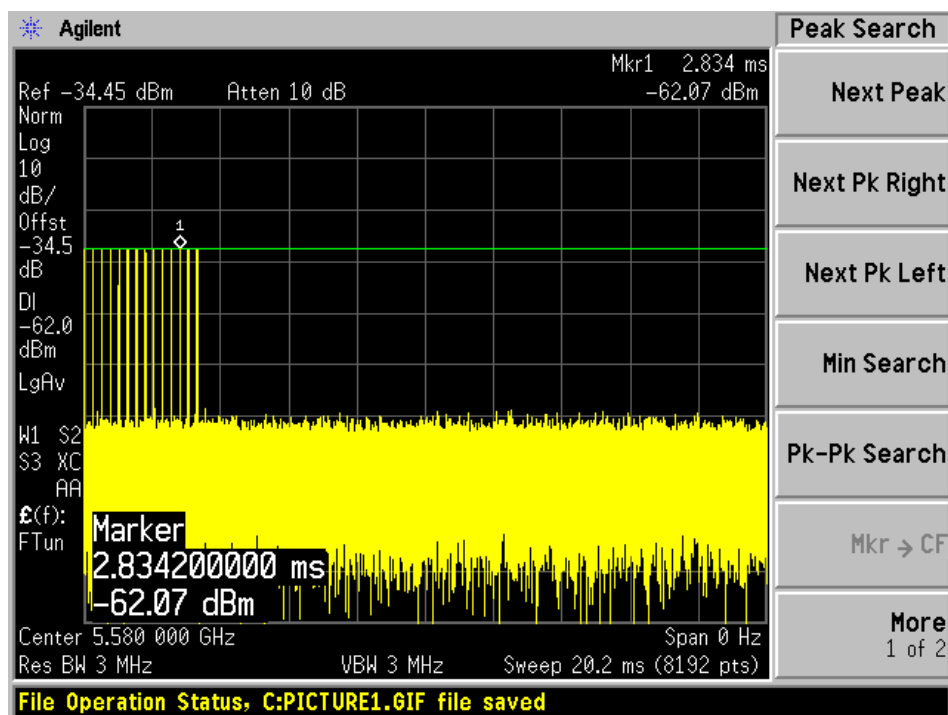
Radar Type 2



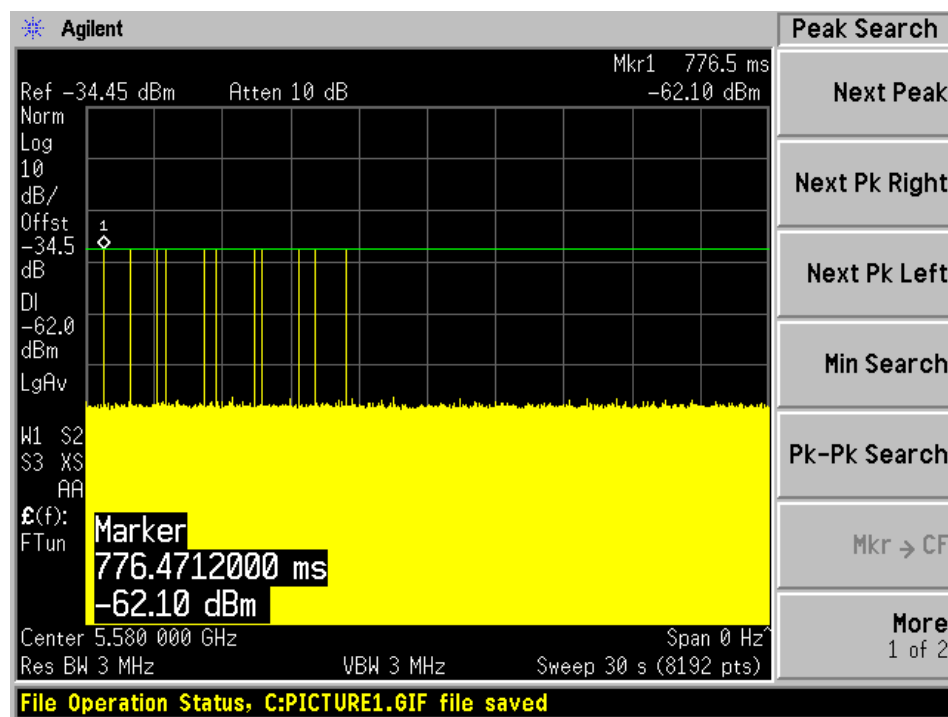
Radar Type 3



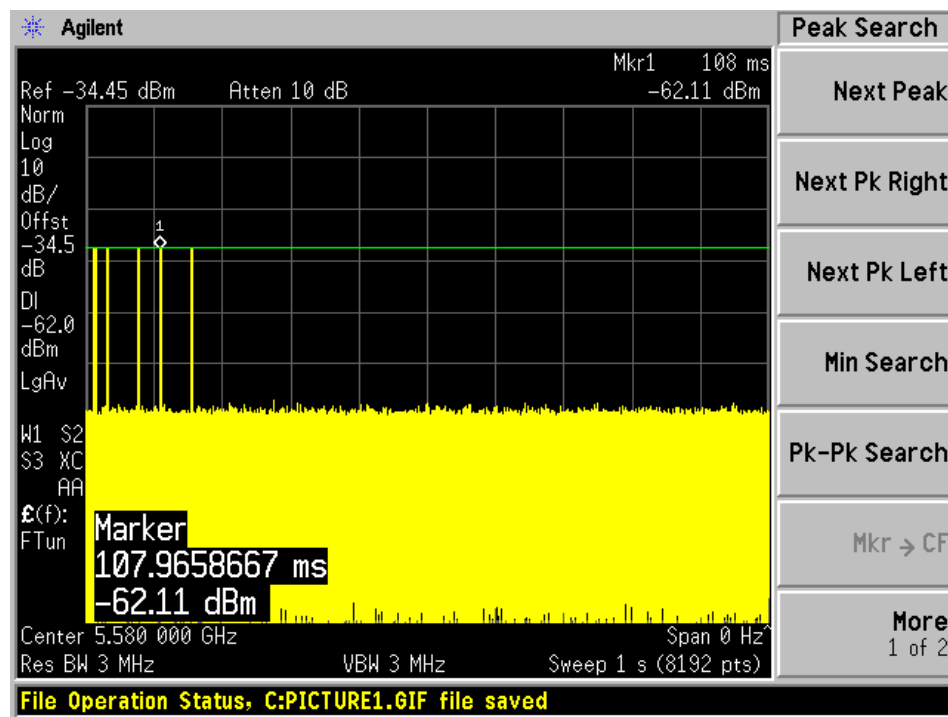
Radar Type 4



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)
27.4

5270 MHz and 5550 MHz Bandwidth 40 MHz

EUT initial Power-up cycle (Second)
27

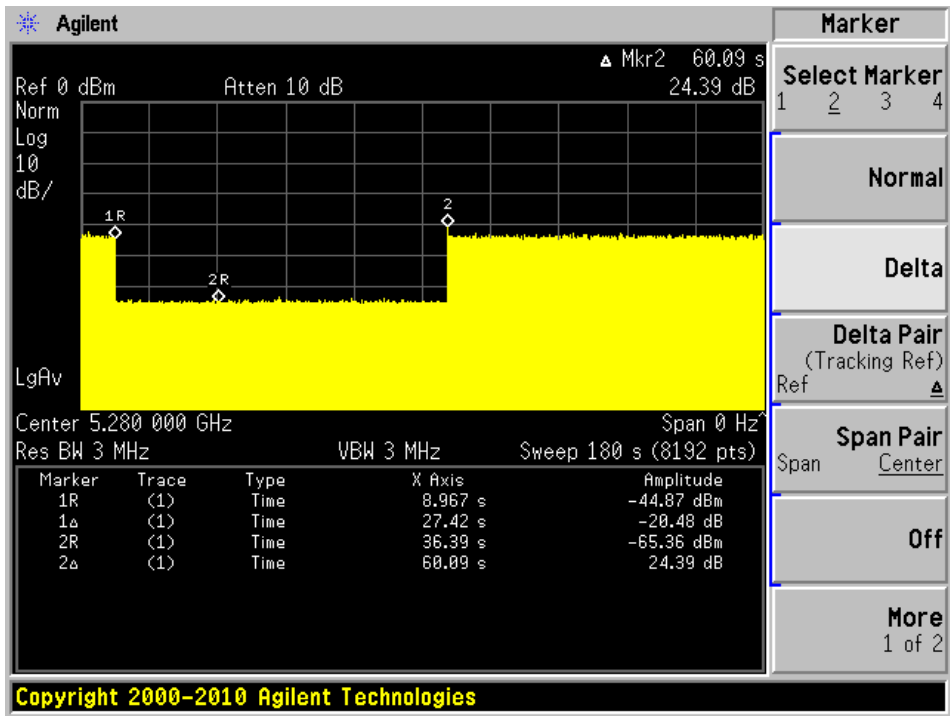
Results:

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.

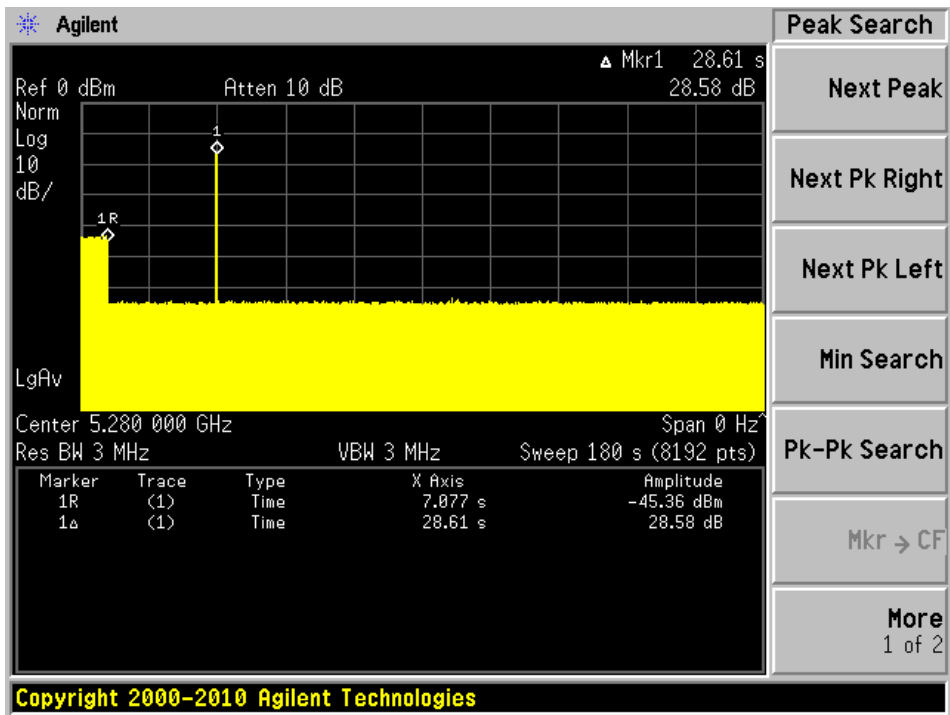
5280 MHZ Bandwidth 20 MHz

Plot of without Radar signal applied



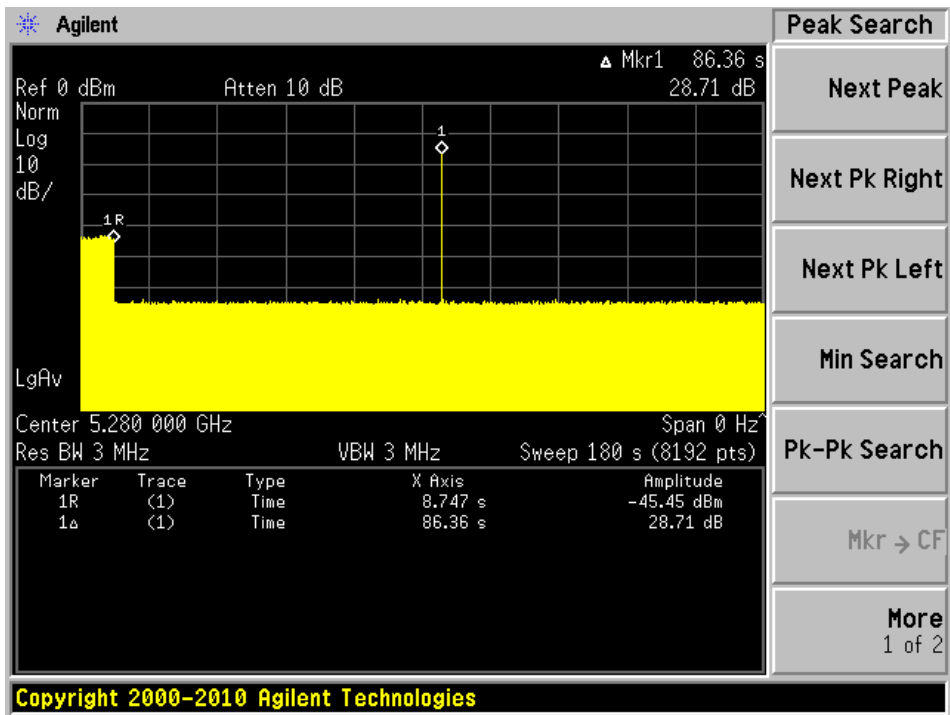
Note: The power-up cycle is 27.4 seconds.

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



No transmissions found after radar signal applied.

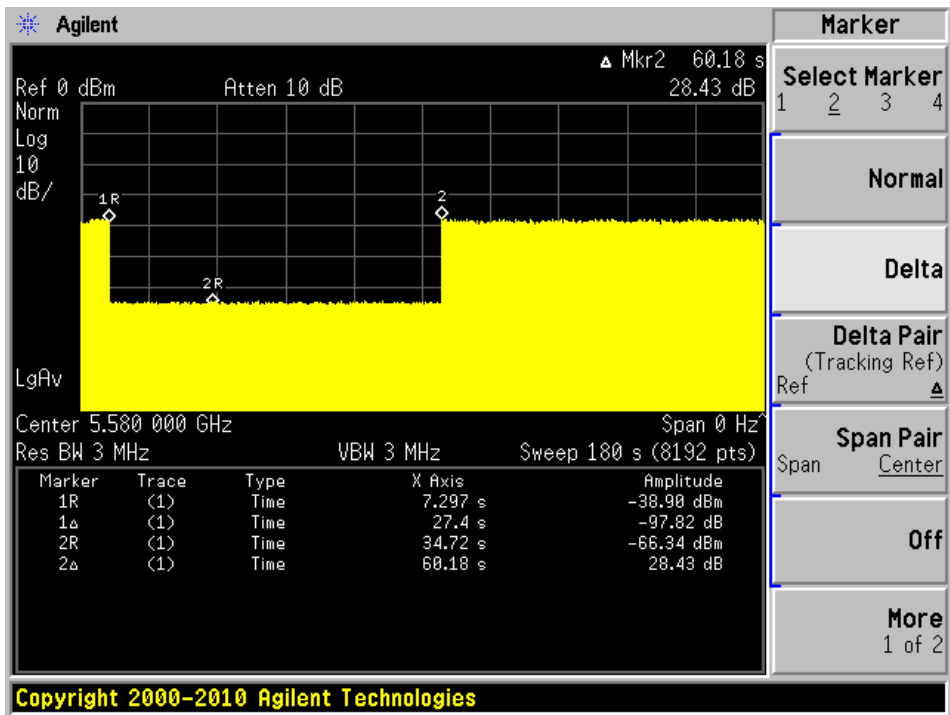
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

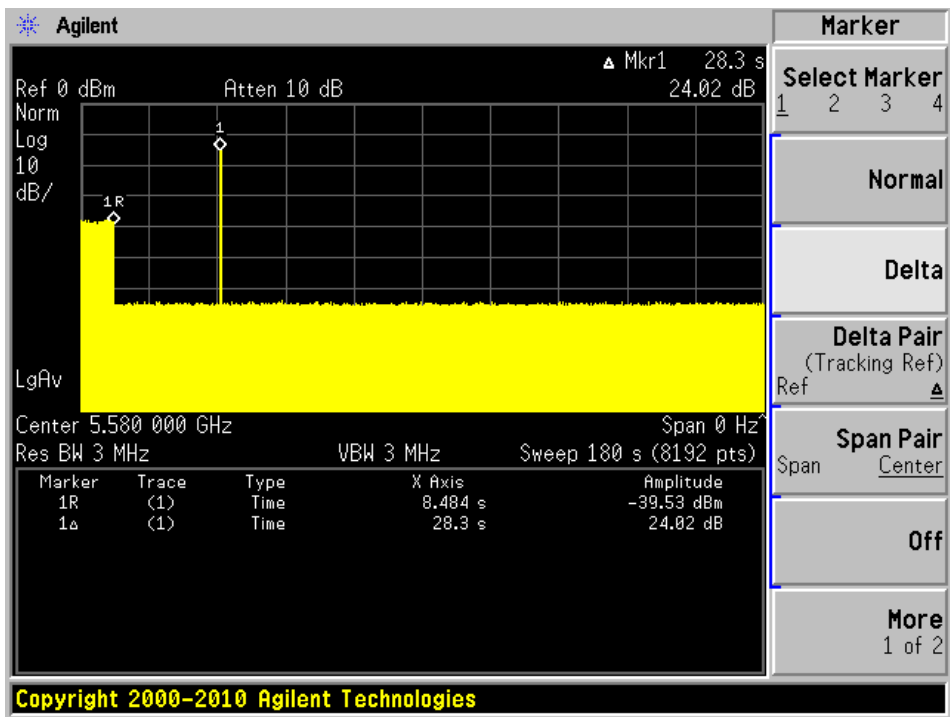
5580 MHZ Bandwidth 20 MHz

Plot of without Radar signal applied



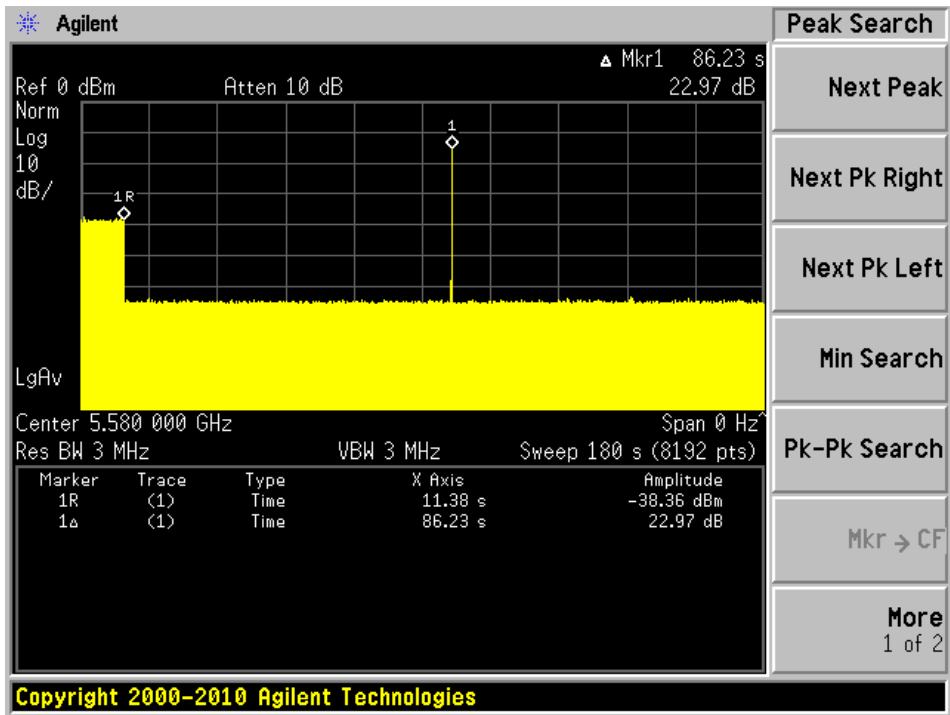
Note: The power-up cycle is 23 seconds.

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



No transmissions found after radar signal applied.

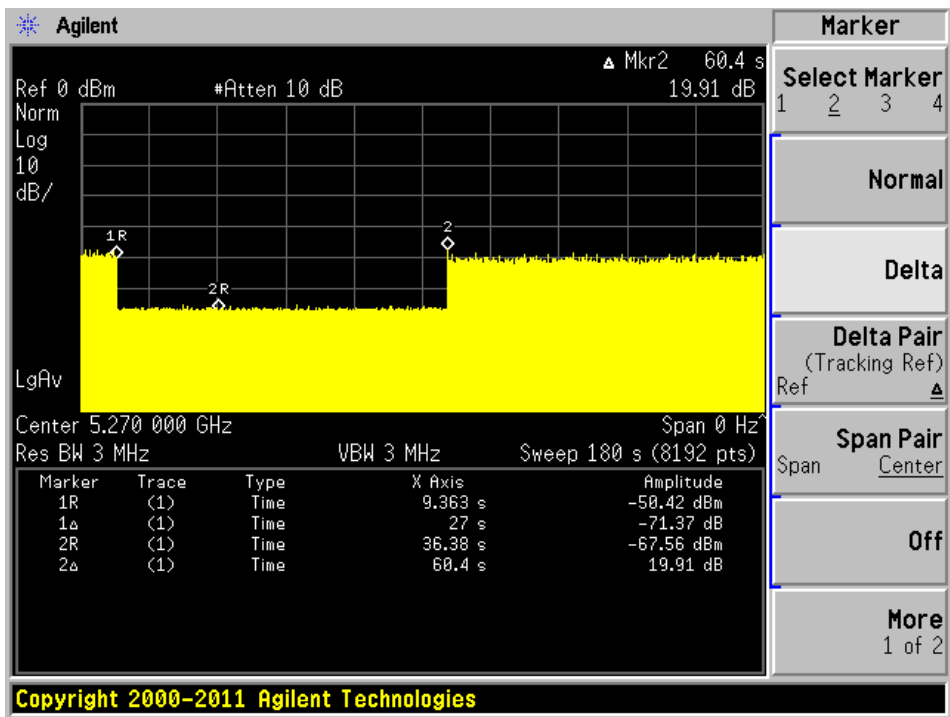
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

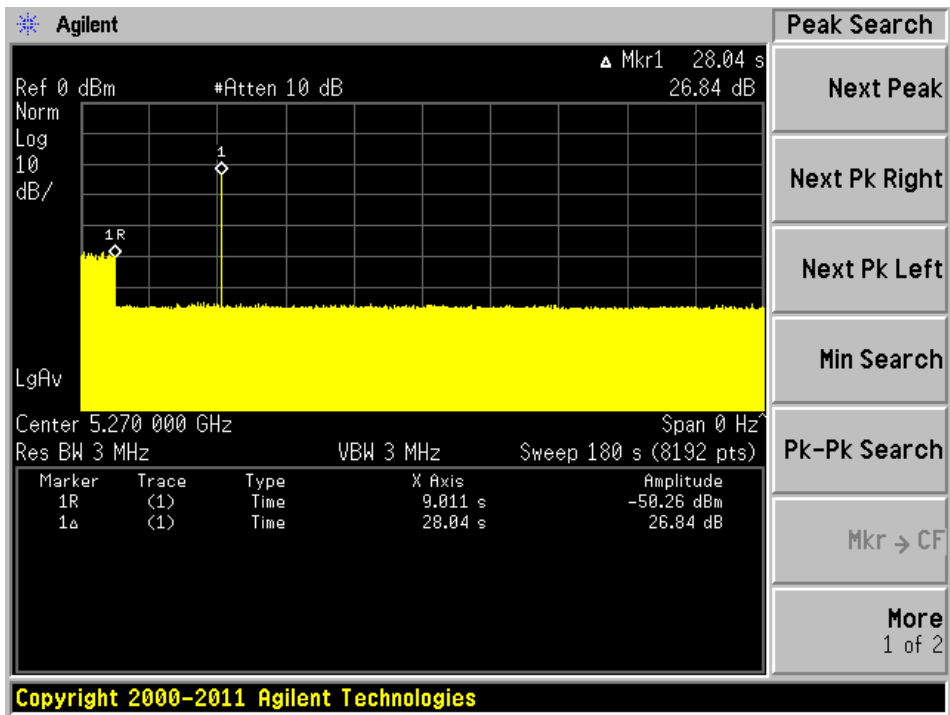
5270 MHZ Bandwidth 40 MHz

Plot of without Radar signal applied



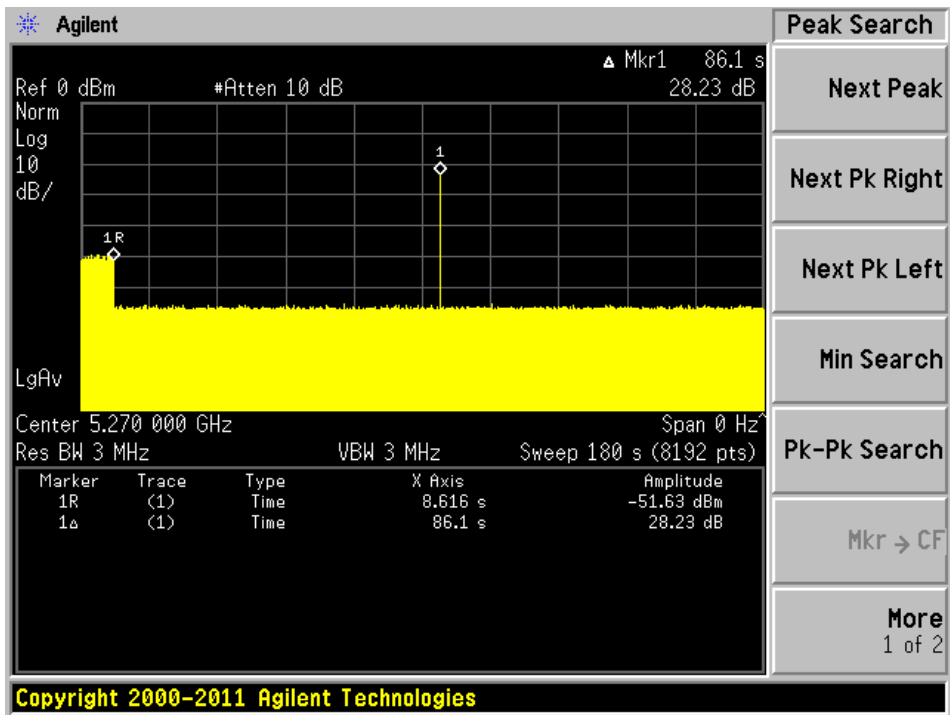
Note: The power-up cycle is 27 seconds.

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



No transmissions found after radar signal applied.

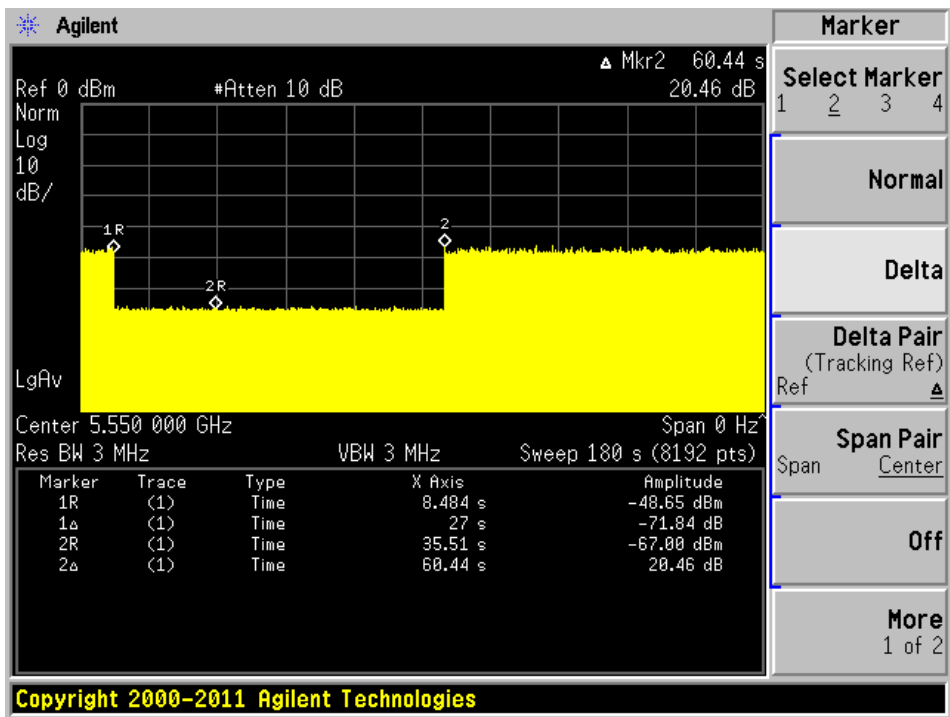
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

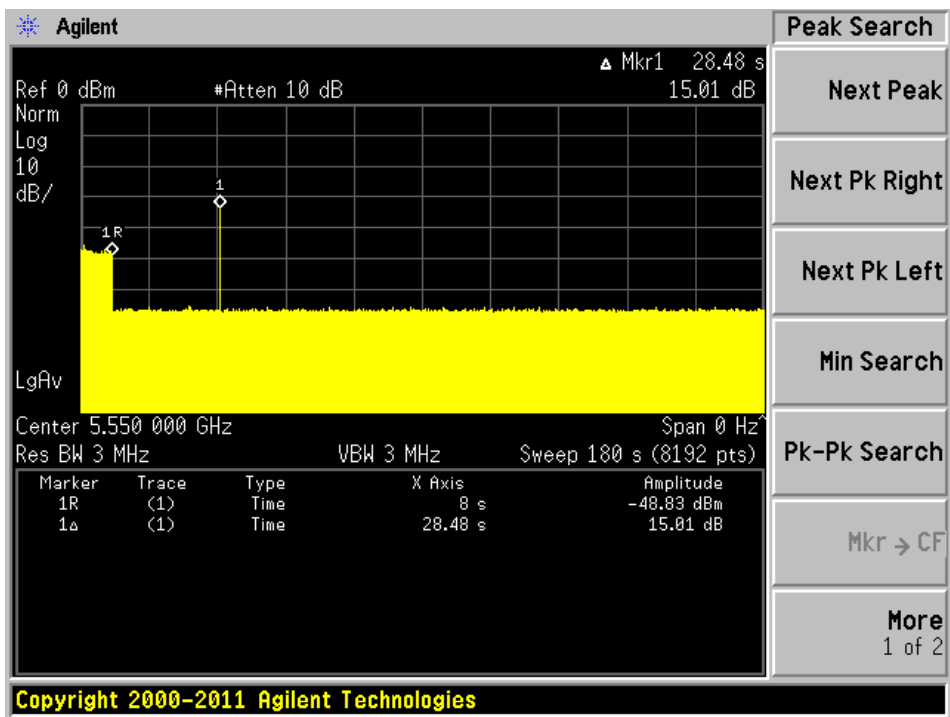
5550 MHZ Bandwidth 40 MHz

Plot of without Radar signal applied



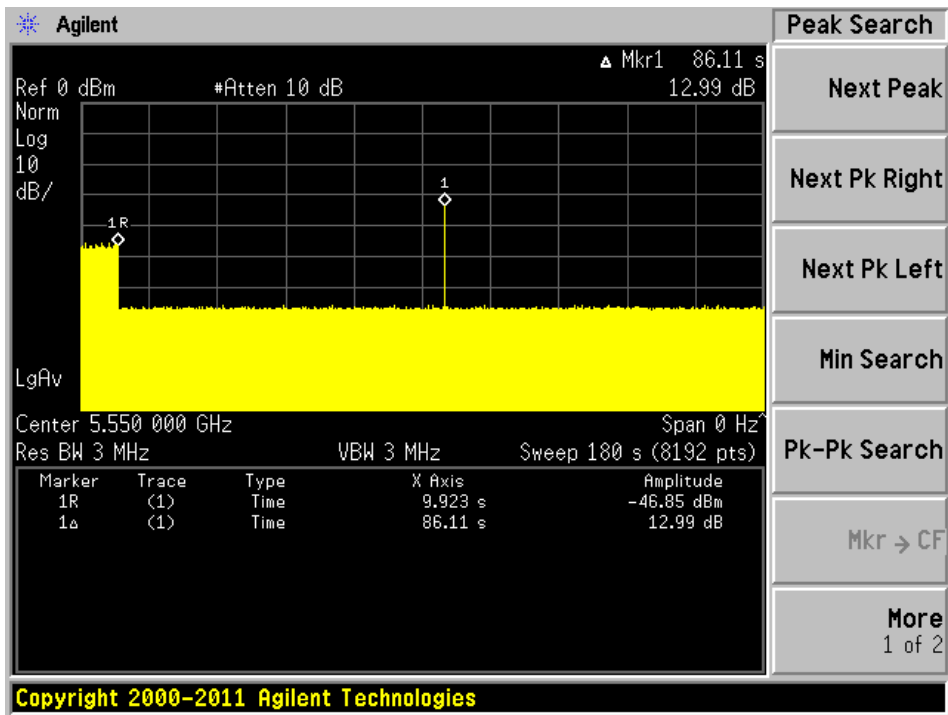
Note: The power-up cycle is 27 seconds.

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)

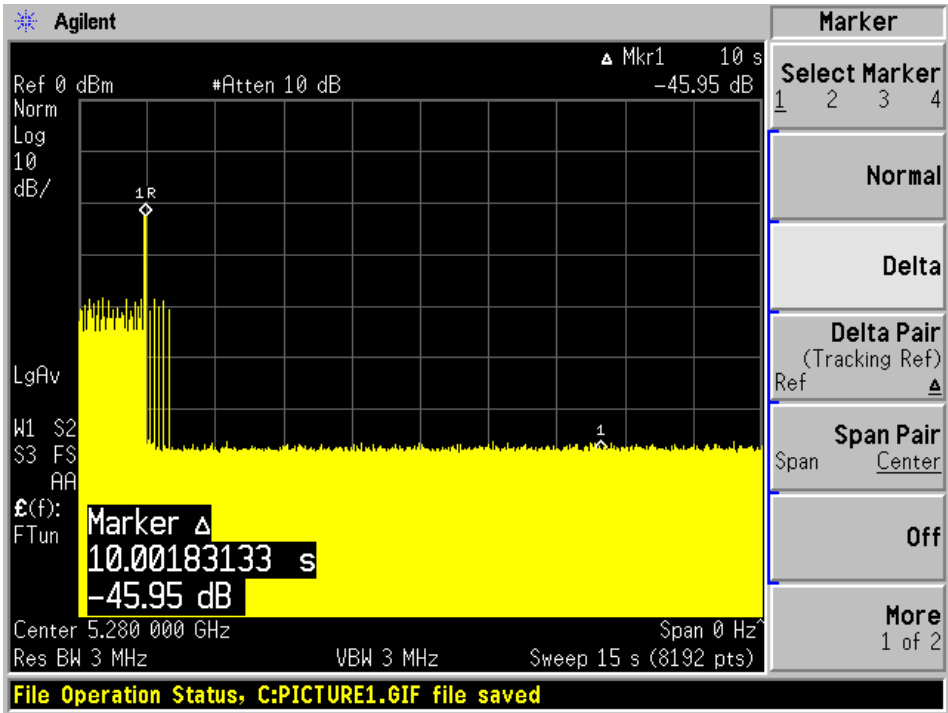
7.2 Test Results

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.

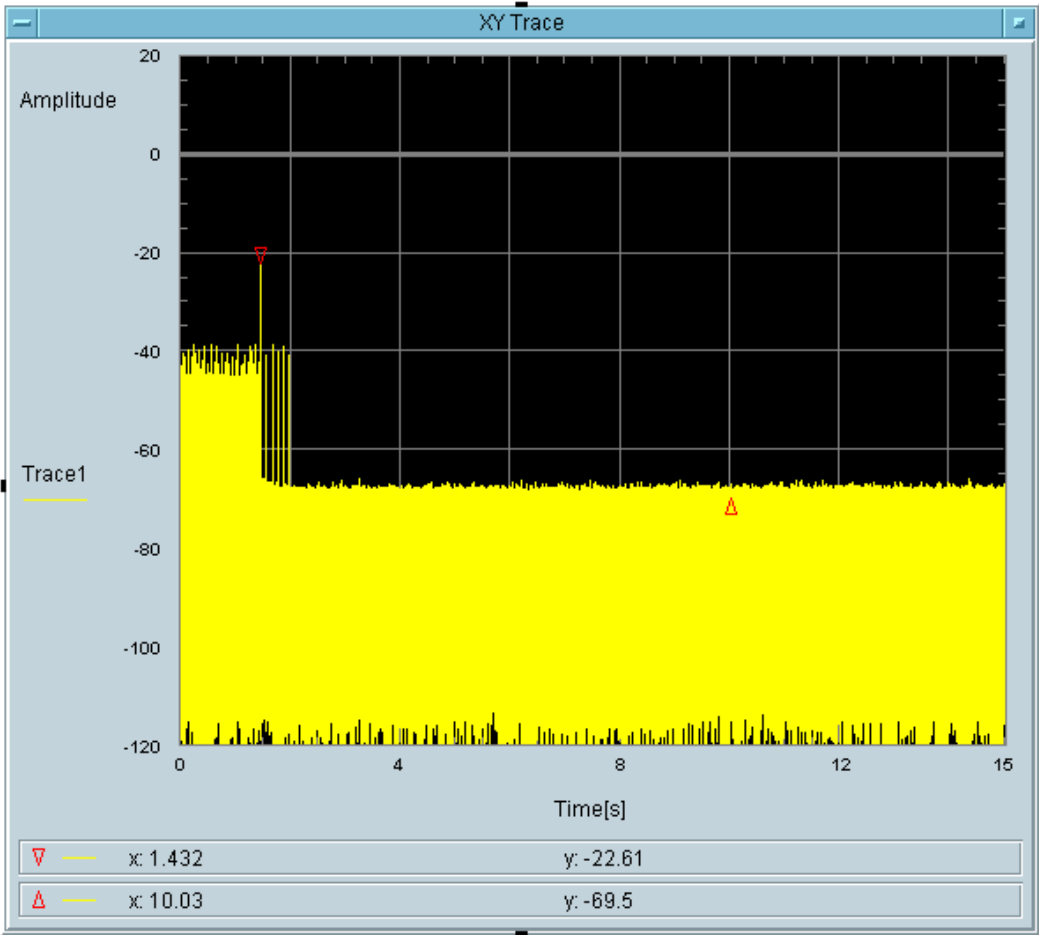
5280 MHz Bandwidth 20 MHz

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

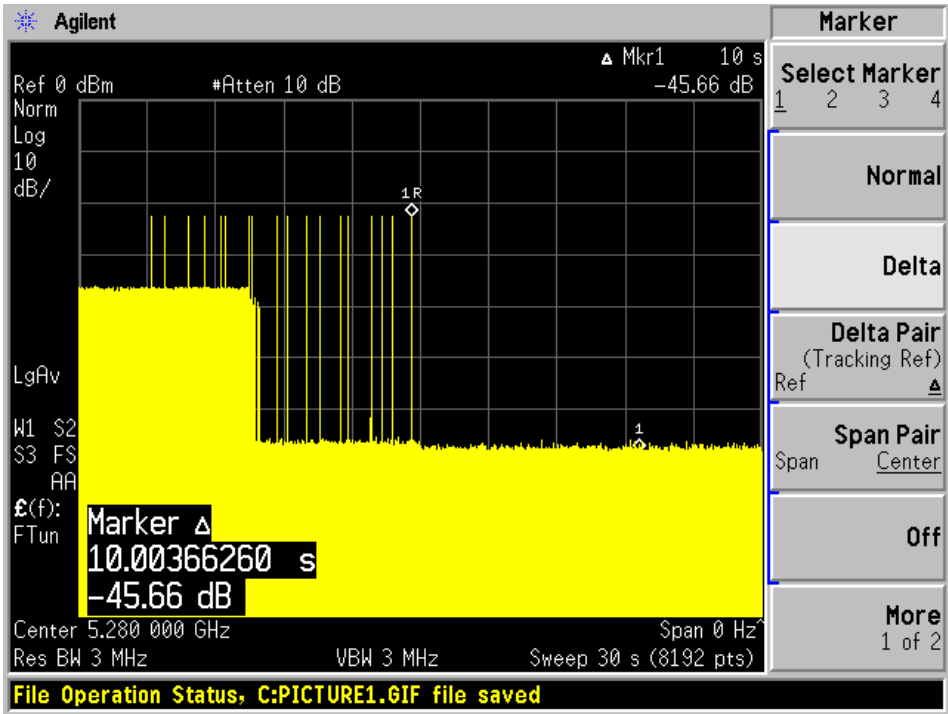


Total On Time [s]
10.99m

Total On Time After Delay [s]
7.324m

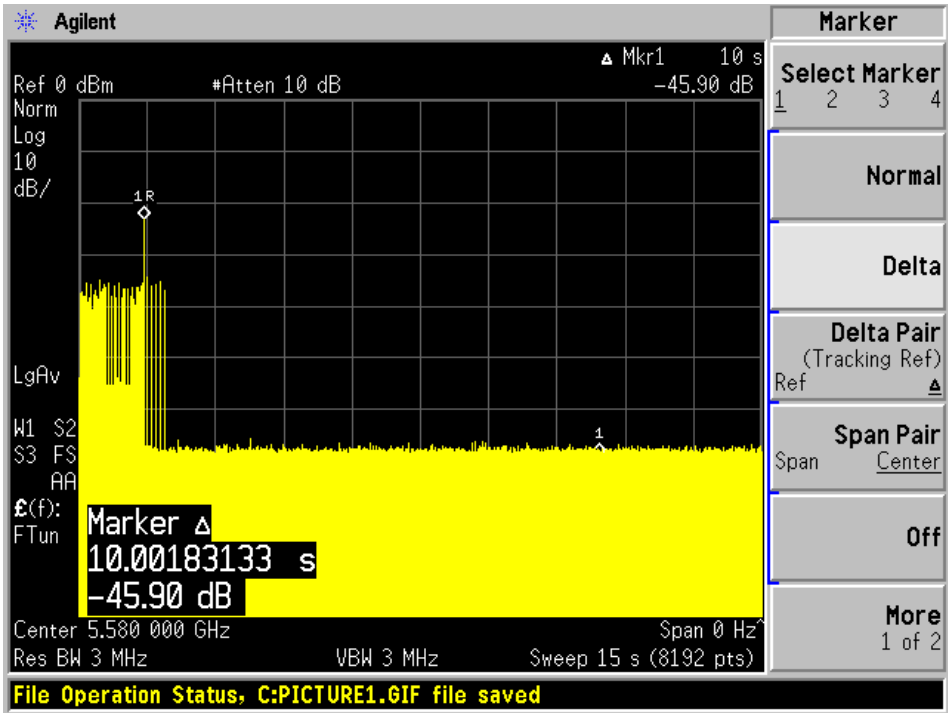
Type 5 radar channel move time result:

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



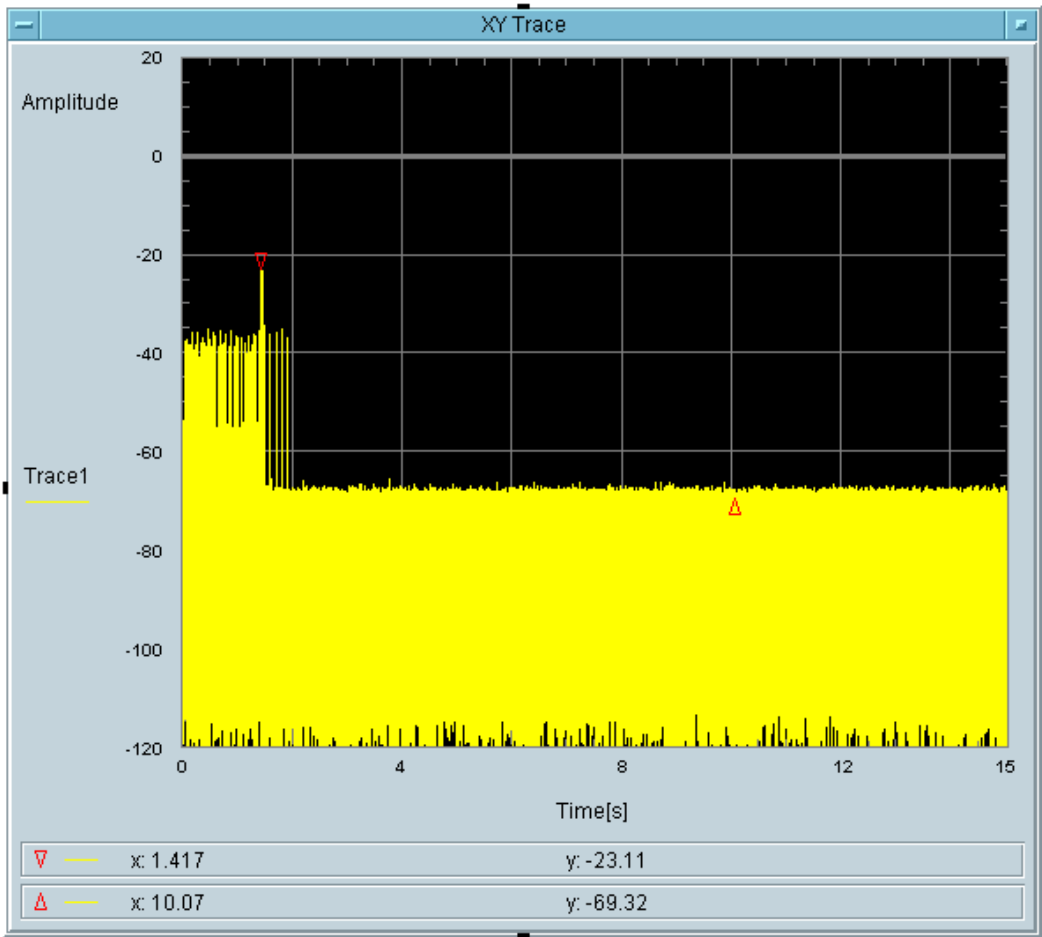
5580 MHz Bandwidth 20 MHz

Type 1 radar channel move time result:



Type3 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
5.493	60	54.507

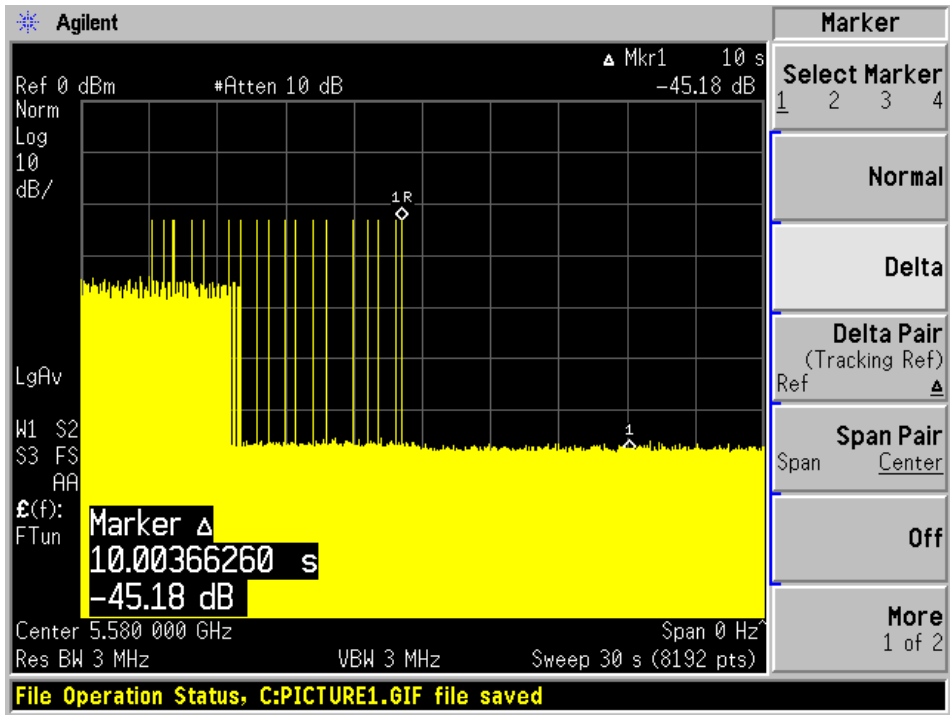


Total On Time [s]
10.99m

Total On Time After Delay [s]
5.493m

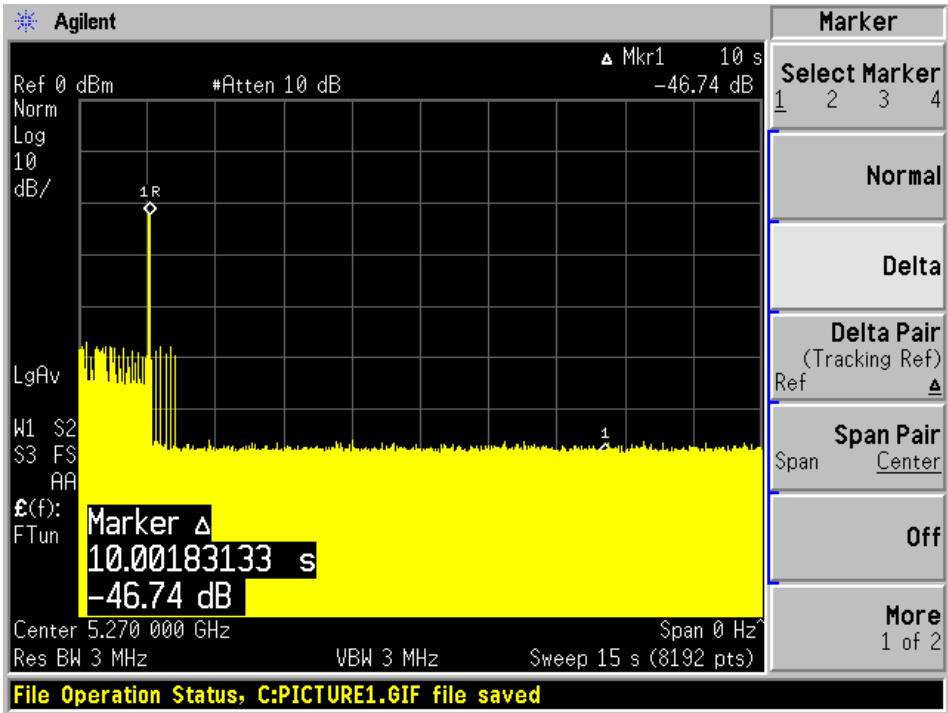
Type 5 radar channel move time result:

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



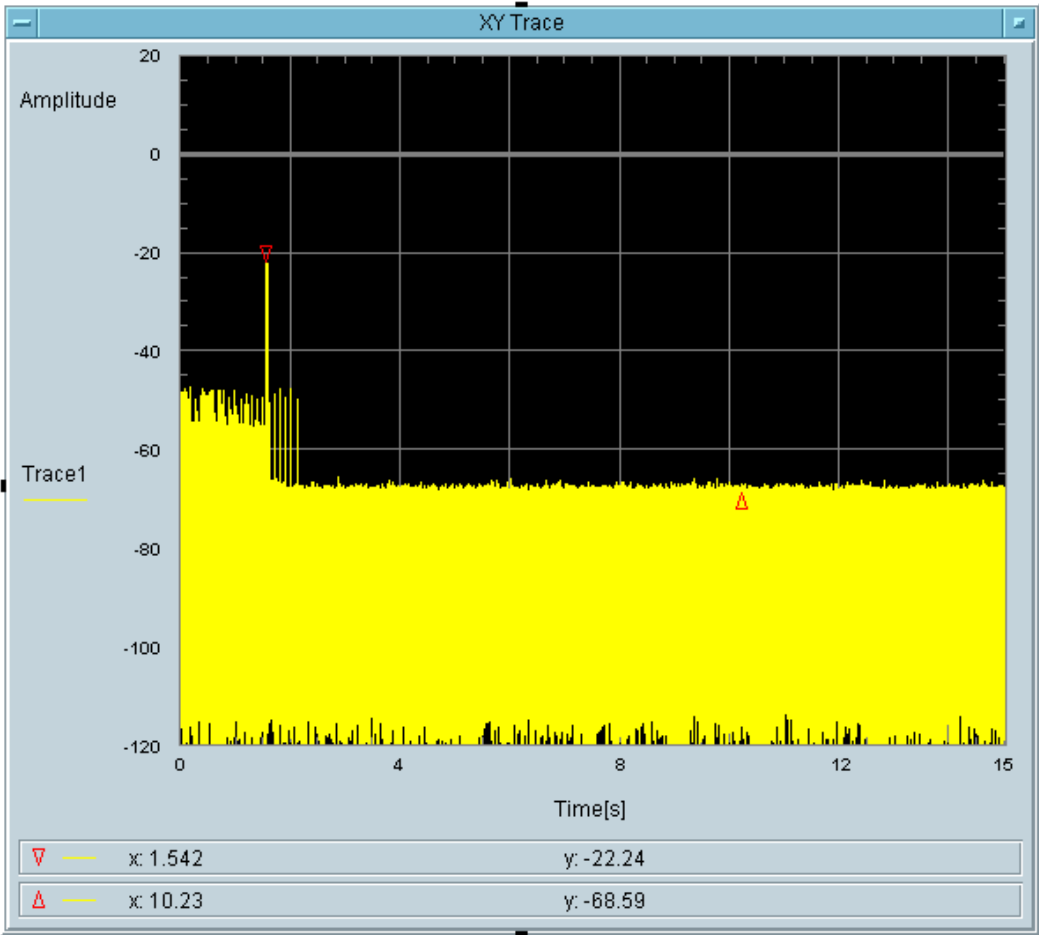
5270 MHz Bandwidth 40 MHz

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]

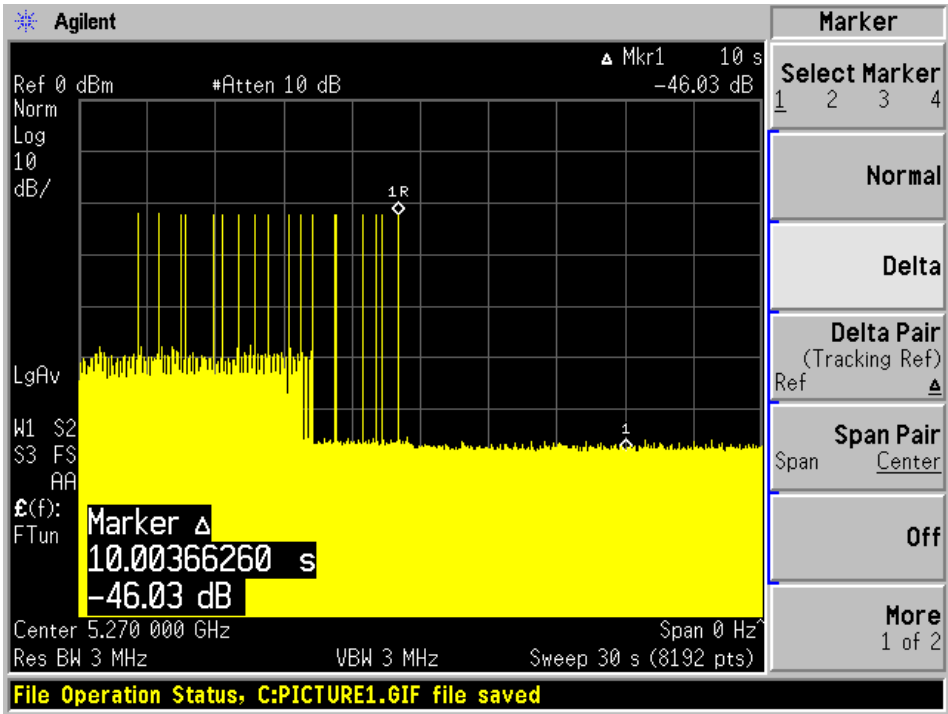
12.82m

Total On Time After Delay [s]

7.324m

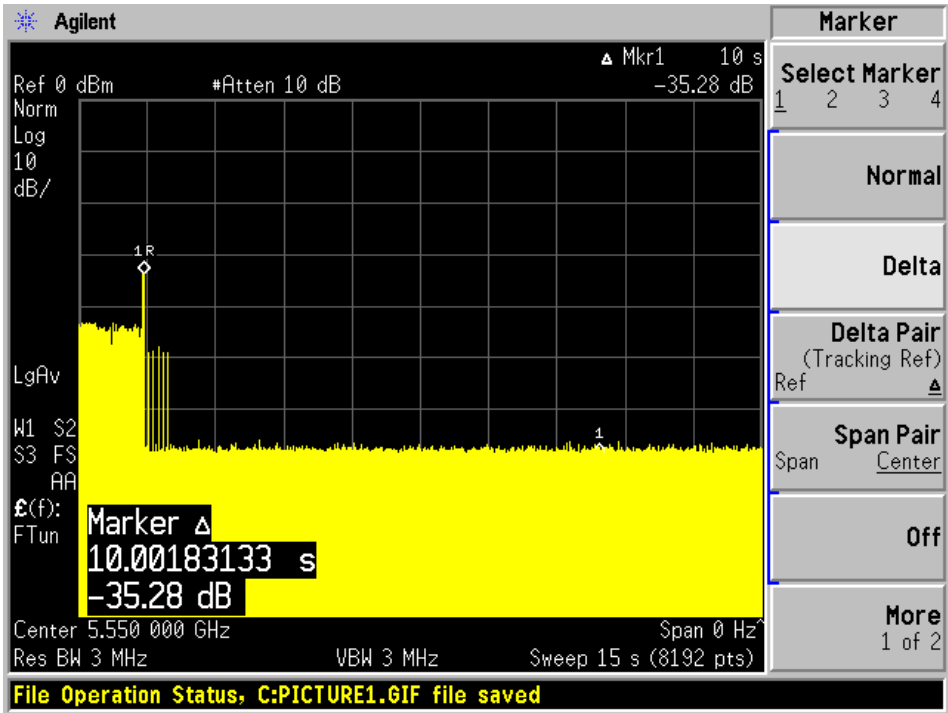
Type 5 radar channel move time result:

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



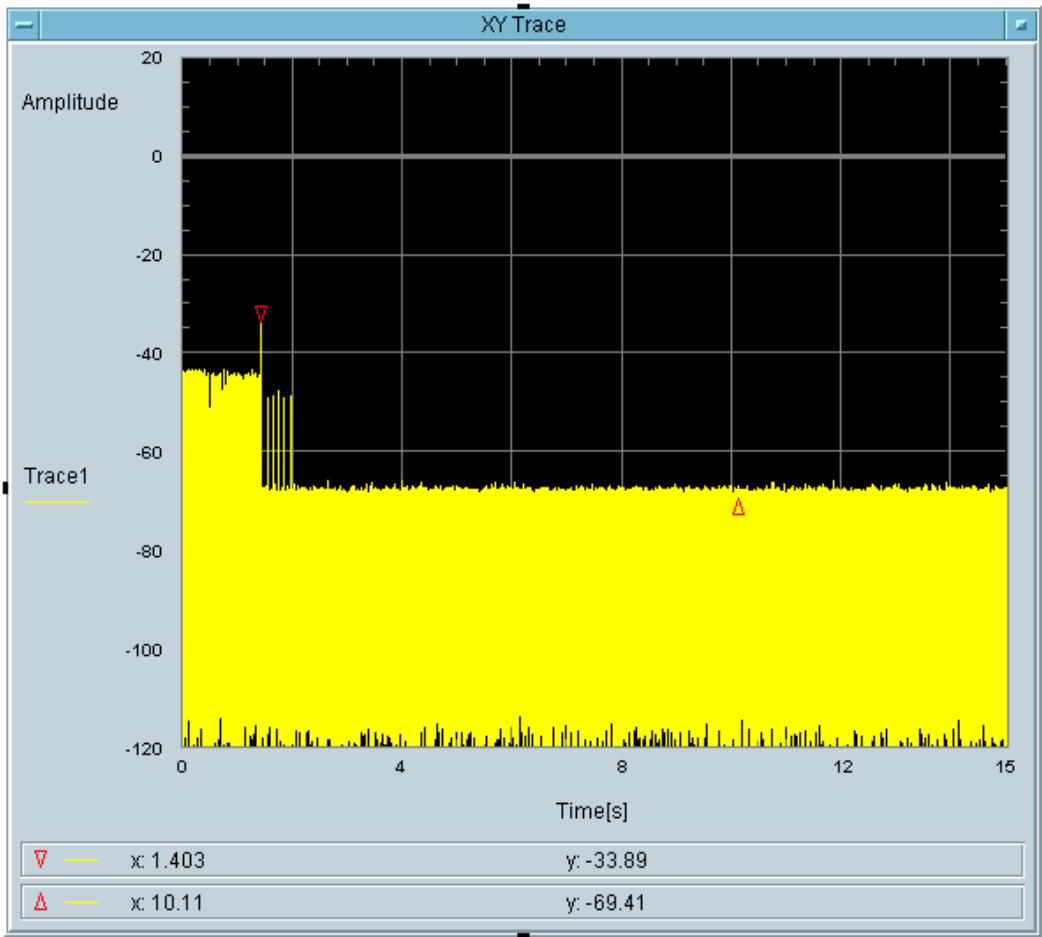
5550 MHz Bandwidth 40 MHz

Type 1 radar channel move time result:



Type3 radar channel closing transmission time result:

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

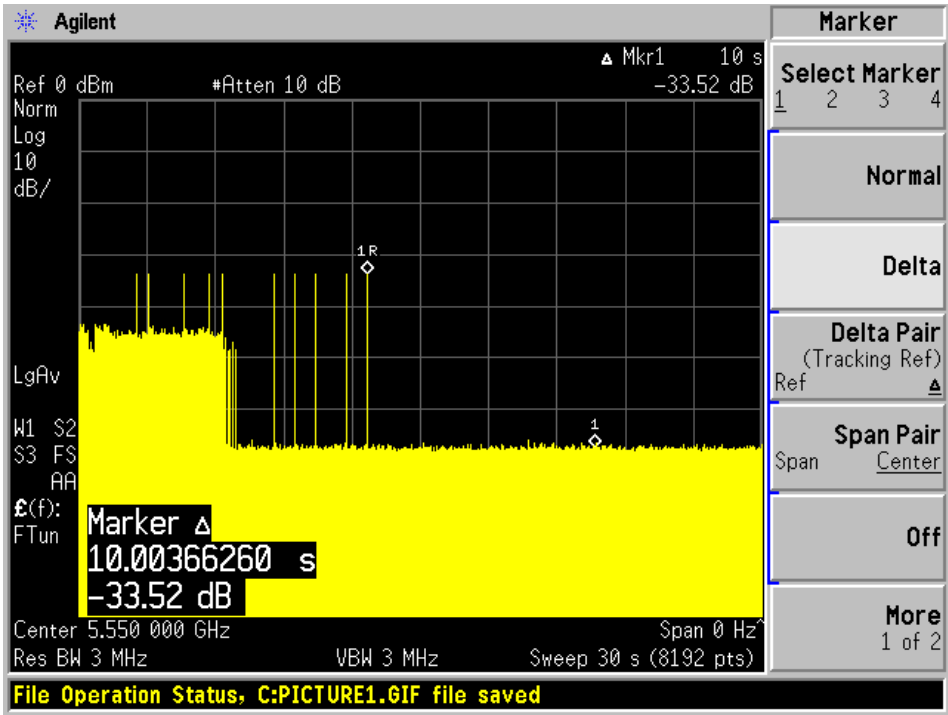


Total On Time [s]
10.99m

Total On Time After Delay [s]
7.324m

Type 5 radar channel move time result:

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



8 Non-Occupancy Period

8.1 Test Procedure

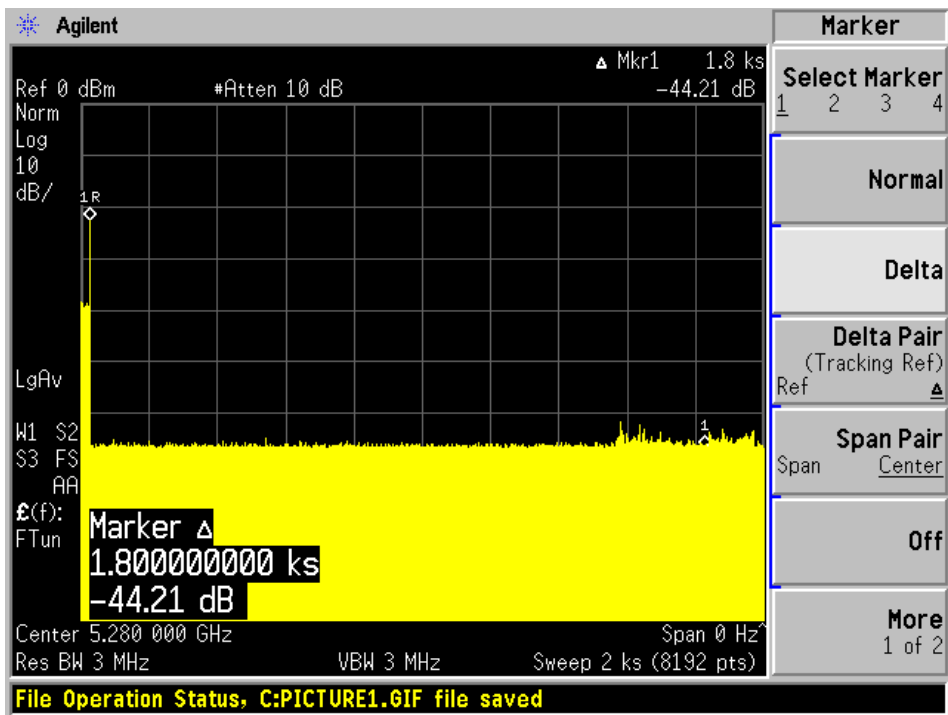
Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Results

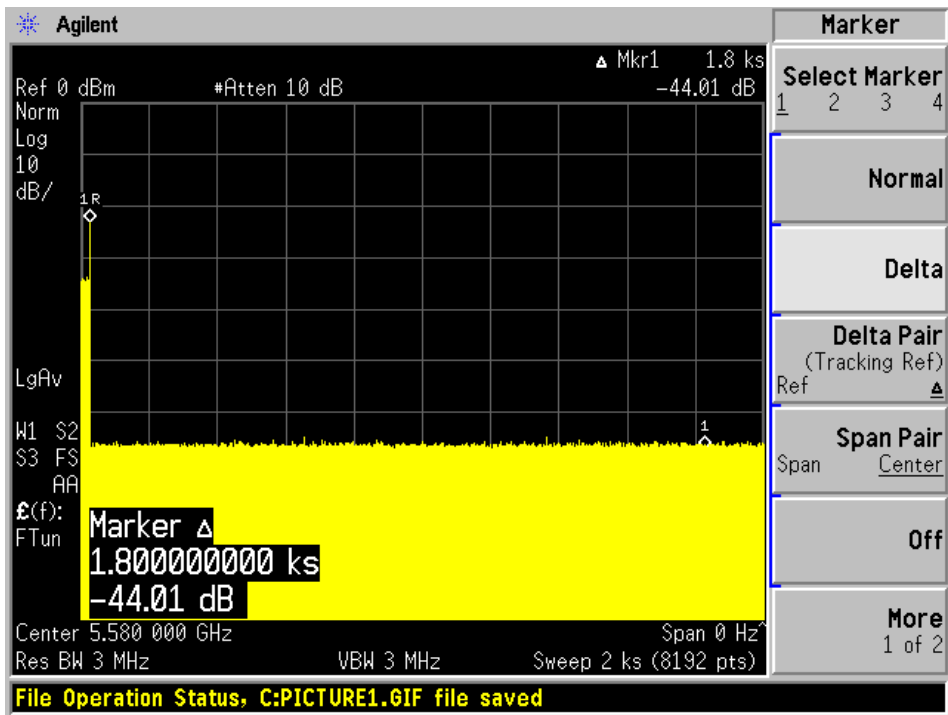
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5280	20	No transmission within 30 minutes
5580	20	No transmission within 30 minutes
5270	40	No transmission within 30 minutes
5550	40	No transmission within 30 minutes

Please refer to the following plots.

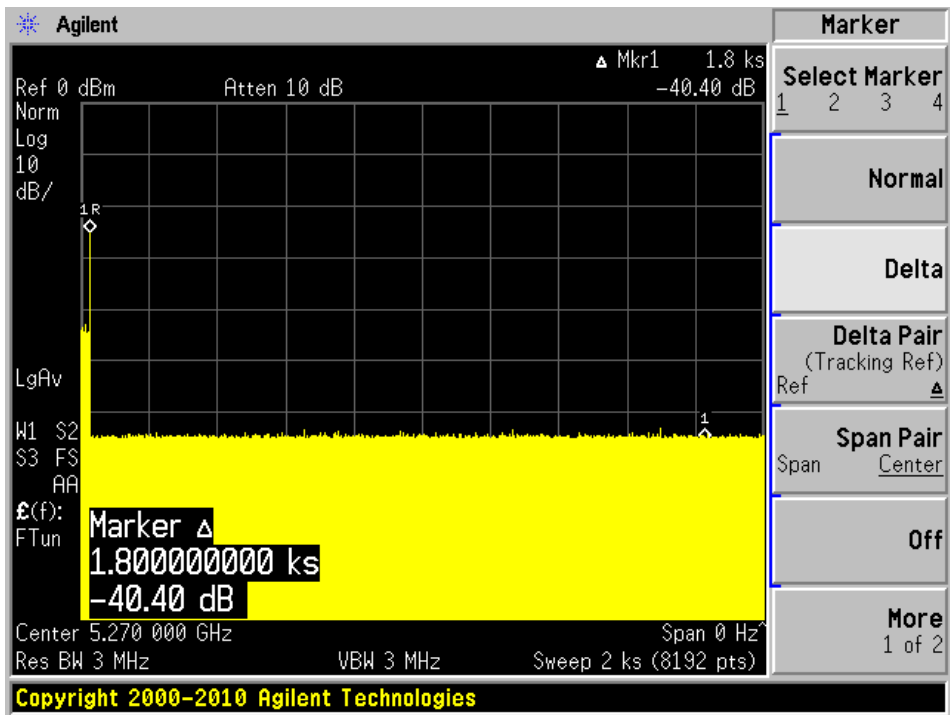
5280 MHz Bandwidth 20 MHz



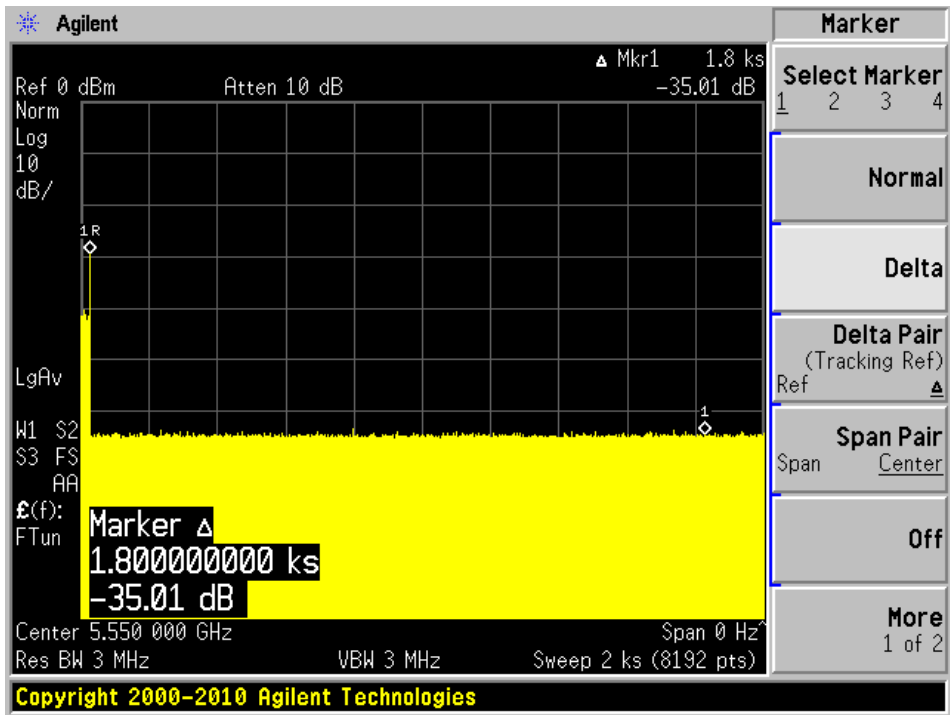
5580 MHz Bandwidth 20 MHz



5270 MHz Bandwidth 40 MHz



5550 MHz Bandwidth 40 MHz



9 Detection Bandwidth

9.1 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 = $F_H - F_L$

9.2 Result

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5280	5269	5291	22	80%	Compliance
5580	5570	5590	20	80%	Compliance
5270	5250	5290	40	80%	Compliance
5550	5550	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 (%)
5268	0	0	0	0	0	0	0	0	0	0	0 %
5269(F _L)	1	1	1	1	1	1	1	1	1	1	100 %
5270	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	0	1	1	1	1	1	1	90 %
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	1	1	1	1	1	1	1	1	1	1	100 %
5291(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
5292	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F _H – F _L = 5291-5269 = 22 MHz											
EUT 99% BW = 18.0661 MHz; 18.0661 * 80% = 14.45288 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	1	1	1	0	1	1	0	0	0	50 %
Detection Bandwidth = F_H – F_L = 5590-5570 = 20 MHz											
EUT 99% BW = 18.2141 MHz; 18.2141 * 80%= 14.57128								Result:		Pass	

Results of Detection Bandwidth:

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	0	1	1	1	1	1	1	90 %
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% BW = 37.4940 MHz; 37.4940 * 80% = 29.9952 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 %
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	100 %
5540	1	1	1	0	1	1	1	1	1	1	90 %
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	1	1	1	1	1	1	100 %
5556	1	1	1	1	1	1	1	1	1	1	100 %
5558	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
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	1	1	1	1	100 %
5568	1	1	1	1	1	1	1	1	1	1	100 %
5570(F_H)	0	1	1	1	1	1	1	1	1	1	90 %
5571	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F_H – F_L = 5570-5530 = 40 MHz											
EUT 99% BW = 37.2179 MHz; 37.2179 * 80%= 29.77432								Result:		Pass	

9.3 Radar Detection

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%

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

Result:

20MHz

5280 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	93.3 %	60%	Pass
Type 2	30	83.3 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	96.7 %	60%	Pass
Aggregate (Type1 to 4)	120	93.325 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5280MHz**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	0
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	0
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: 93.3 % (>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	27	3.4	168	1
2	5280	26	2.1	172	1
3	5280	25	3.3	151	0
4	5280	27	3.9	188	1
5	5280	29	3	228	1
6	5280	29	1.4	151	0
7	5280	25	2.9	194	1
8	5280	27	3.1	169	1
9	5280	23	1.2	186	0
10	5280	28	2.5	211	1
11	5280	24	3.1	187	1
12	5280	25	2.7	216	0
13	5280	29	3.8	172	1
14	5280	23	1.7	172	1
15	5280	28	1.8	194	1
16	5280	23	4.8	227	0
17	5280	27	1.3	159	1
18	5280	27	2.2	213	1
19	5280	24	3.8	207	1
20	5280	24	1.2	217	1
21	5280	28	3	185	1
22	5280	27	1.2	218	1
23	5280	29	3.3	170	1
24	5280	23	1.9	203	1
25	5280	29	3.9	224	1
26	5280	25	1.6	226	1
27	5280	25	3.8	219	1
28	5280	25	1.3	219	1
29	5280	28	5	182	1
30	5280	28	3.5	218	1
Detection Percentage: 83.3 % (>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	16	6.7	486	1
2	5280	18	8.5	494	1
3	5280	17	10	380	1
4	5280	18	8.6	482	1
5	5280	16	7.6	208	1
6	5280	17	7.5	448	1
7	5280	16	8.4	353	1
8	5280	18	7.1	282	1
9	5280	16	6.3	283	1
10	5280	18	10	272	1
11	5280	17	8.7	353	1
12	5280	16	7.9	283	1
13	5280	16	6.3	471	1
14	5280	18	7.4	411	1
15	5280	17	10	247	1
16	5280	18	9	354	1
17	5280	18	8	494	1
18	5280	17	6.7	264	1
19	5280	18	6	317	1
20	5280	17	8.2	341	1
21	5280	16	9.8	436	1
22	5280	18	6.2	341	1
23	5280	16	6.7	340	1
24	5280	17	6.7	303	1
25	5280	16	6.7	209	1
26	5280	16	9.2	414	1
27	5280	18	9.5	367	1
28	5280	17	8.1	358	1
29	5280	16	6.8	498	1
30	5280	17	7.8	483	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	14.3	489	1
2	5280	13	12.2	328	1
3	5280	12	14.2	400	1
4	5280	16	16.2	358	1
5	5280	12	11.9	436	1
6	5280	15	15.1	321	1
7	5280	12	15	486	0
8	5280	12	11.8	390	1
9	5280	15	17	349	1
10	5280	15	13.5	283	1
11	5280	13	14.9	359	1
12	5280	16	12.2	318	1
13	5280	12	18.8	380	1
14	5280	13	12.9	442	1
15	5280	14	14.3	411	1
16	5280	15	15.7	433	1
17	5280	12	18	249	1
18	5280	15	16.6	214	1
19	5280	16	15.8	390	1
20	5280	16	15	461	1
21	5280	12	12.3	272	1
22	5280	14	17.6	243	1
23	5280	14	13.5	426	1
24	5280	13	16.6	336	1
25	5280	15	17.4	317	1
26	5280	15	18.5	352	1
27	5280	14	11.8	295	1
28	5280	14	12.9	356	1
29	5280	14	14	447	1
30	5280	13	16.7	383	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	1	15	83.1			0.342409	1
1	1	10	89.5			1.314395	
2	2	20	52.9	1115		3.065122	
3	1	7	86.3			3.998895	
4	2	13	89.9	1632		5.177336	
5	2	10	93.5	1411		5.71978	
6	3	13	97.6	1888	1245	6.86366	
7	1	17	59.6			8.113421	
8	1	8	51.7			9.315939	
9	2	9	76.5	1281		10.57141	
10	2	6	56.9	1334		11.866821	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	51.8			0.477779	1
1	2	16	92.1	1732		1.169597	
2	2	18	90.2	1639		1.861183	
3	2	8	68.3	1665		2.442633	
4	2	16	79.5	1957		2.783693	
5	3	12	57.7	1127	1792	3.263207	
6	2	10	72.6	1044		4.214905	
7	3	14	92.3	1858	1215	4.470594	
8	3	10	59.5	1230	1442	5.477223	
9	2	11	84.6	1468		5.966247	
10	2	16	98.5	1477		6.718419	
11	1	5	66.2			7.563486	
12	1	9	56.9			7.823532	
13	3	19	73.7	1280	1077	8.744522	
14	3	5	59.1	1457	1365	9.276292	
15	2	19	97.7	1486		10.077747	
16	2	20	61.9	1344		10.131118	
17	1	11	74.4			11.082203	
18	2	19	72.6	1005		11.961362	

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	8	79.1			0.032311	1
1	3	5	76.5	1596	1662	1.39656	
2	2	15	63.8	1575		1.505486	
3	2	16	86	1206		2.329731	
4	2	10	88.3	1407		3.17729	
5	2	15	69.5	1375		3.677236	
6	2	6	99.2	1850		4.561109	
7	3	12	86.8	1127	1428	5.329614	
8	3	13	74.8	1844	1921	6.280403	
9	1	18	91.9			6.93018	
10	1	11	88.1			7.51612	
11	1	11	55			7.894295	
12	1	6	64.1			9.11957	
13	1	19	95.9			9.26371	
14	1	13	93.3			10.236006	
15	3	17	65.1	1402	1502	10.679125	
16	1	17	77			11.833177	

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	8	71.5	1556		0.583072	1
1	3	20	96.4	1059	1099	0.905208	
2	3	18	58.6	1308	1383	1.781441	
3	3	5	56.2	1470	1278	2.551566	
4	3	8	90.5	1631	1764	3.056971	
5	2	13	85.7	1668		4.07617	
6	1	10	92.8			4.704992	
7	3	18	59.2	1519	1323	5.100435	
8	3	8	96.8	1084	1958	5.795264	
9	2	12	83.8	1176		6.387678	
10	1	8	92.4			7.700498	
11	1	11	76.2			8.428785	
12	3	16	54.1	1973	1171	8.903665	
13	1	13	75			9.810785	
14	3	12	81.9	1805	1174	10.282624	
15	2	19	69.7	1915		10.846392	
16	1	13	88.7			11.574482	

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	5	58.1			0.724335	1
1	3	17	51	1258	1079	1.348376	
2	1	6	71.5			2.625675	
3	2	10	63.1	1785		3.876879	
4	3	6	70.6	1331	1395	4.746836	
5	3	20	74	1848	1774	5.832071	
6	2	13	84.7	1937		6.106138	
7	2	10	95.6	1442		7.349283	
8	2	17	70.3	1356		8.386632	
9	3	15	51.3	1775	1440	9.887718	
10	3	14	93.9	1903	1336	10.342377	
11	2	14	75.1	1626		11.5118	

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	18	86.4	1261	1003	0.530542	1
1	2	16	83.2	1720		1.352383	
2	1	18	71.8			1.816974	
3	2	19	91.3	1536		2.755355	
4	3	15	53.8	1837	1541	3.212104	
5	1	9	80			3.795592	
6	2	18	68.3	1047		4.545363	
7	3	15	73.5	1412	1856	5.633386	
8	1	20	81.9			5.754189	
9	3	10	97.7	1798	1738	6.653939	
10	2	20	82.1	1219		7.186858	
11	1	19	54.4			7.870152	
12	1	14	84.3			8.852635	
13	3	7	94.9	1583	1538	9.19772	
14	2	19	52.5	1510		10.227125	
15	1	13	84.2			11.101073	
16	1	16	99.4			11.612614	

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	10	99.7	2000		0.139945	1
1	3	6	77	1101	1935	0.93225	
2	3	14	94	1693	1898	1.324293	
3	2	15	90.2	1319		1.977306	
4	1	14	67.7			2.43393	
5	2	17	71	1330		3.295265	
6	2	16	73.2	1259		3.872904	
7	2	15	89.1	1989		4.426314	
8	2	13	87	1284		4.852056	
9	3	16	58.6	1896	1214	5.603083	
10	2	9	73.7	1023		6.095873	
11	1	8	69.9			6.877839	
12	2	8	51.7	1786		7.606219	
13	1	14	97.9			7.922907	
14	1	12	95.4			8.650171	
15	1	10	81.3			9.585575	
16	2	11	68.5	1608		9.667589	
17	2	7	62.3	1433		10.518832	
18	2	19	61.7	1225		11.390485	
19	1	18	51.9			11.432848	

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	10	98.1	1791		0.28633	1
1	3	10	99.5	1749	1875	1.936761	
2	3	8	90	1363	1995	2.880226	
3	3	16	59.7	1046	1966	3.832893	
4	2	14	84.3	1757		4.194822	
5	1	6	78.2			5.66283	
6	3	18	82.4	1796	1999	6.083909	
7	1	12	57.8			7.618016	
8	3	17	92.9	1519	1143	8.448846	
9	2	11	86.2	1142		9.699048	
10	2	13	87.4	1823		10.305617	
11	1	13	51.6			11.264518	

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	11	98.9			1.187077	1
1	3	8	76	1060	1101	1.803673	
2	1	5	79.4			3.250416	
3	2	7	75.5	1367		4.023788	
4	2	8	50.7	1386		5.154982	
5	2	20	83.9	1416		6.160553	
6	3	12	58.3	1125	1972	7.94896	
7	3	10	85.5	1111	1671	9.572596	
8	3	6	89.6	1892	1162	10.487288	
9	2	11	65	1294		11.24591	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	85.1	1610	1381	0.657854	1
1	1	7	84.5			0.908705	
2	2	14	71.5	1584		1.607221	
3	3	8	71.7	1579	1922	2.654714	
4	2	11	86.8	1028		3.669993	
5	2	18	84.4	1925		4.640633	
6	2	19	81.3	1936		5.066217	
7	2	7	83.6	1171		5.613048	
8	3	13	55.4	1683	1132	6.493981	
9	2	12	84.6	1254		7.744151	
10	1	20	96.4			8.219142	
11	2	13	93.3	1206		9.175279	
12	1	7	59.4			10.119417	
13	3	5	88	1323	1992	11.15931	
14	2	15	90.9	1120		11.582206	

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	20	56.5	1748		0.100232	1
1	2	19	87.6	1791		1.728603	
2	1	13	89.9			2.096378	
3	3	6	57.9	1353	1661	3.054966	
4	2	15	57	1993		3.759119	
5	2	16	84.2	1473		5.208295	
6	2	16	94.2	1669		6.171814	
7	1	14	62.5			6.985399	
8	3	19	57.8	1629	1008	7.853023	
9	2	11	98	1625		8.768055	
10	1	10	77.2			9.749121	
11	3	10	75.2	1593	1816	10.179362	
12	2	12	89.3	1954		11.428605	

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	12	99.6			0.071092	1
1	3	6	50.8	1070	1456	1.018566	
2	3	10	91.1	1437	1472	1.903842	
3	3	15	79.8	1742	1685	2.542356	
4	2	19	68.6	1658		2.989747	
5	2	9	88.9	1948		3.819075	
6	3	6	88.1	1051	1054	4.573265	
7	3	19	71.1	1569	1749	5.444642	
8	2	8	75.5	1467		5.660959	
9	3	17	82.5	1745	1686	6.596132	
10	2	5	62.6	1933		7.190589	
11	3	16	69.4	1648	1654	8.219452	
12	2	6	89.9	1929		8.518081	
13	1	6	78.7			9.379835	
14	3	19	56.1	1951	1735	10.148266	
15	1	19	83.1			10.872696	
16	2	9	96.4	1370		11.467701	

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	50.3	1187		0.308438	1
1	1	10	76.9			0.776643	
2	2	13	52.9	1063		1.901354	
3	1	19	51.8			2.979585	
4	2	15	91.4	1188		3.232002	
5	1	6	68.5			4.140911	
6	2	20	55.1	1803		4.96549	
7	2	9	80.5	1081		5.830268	
8	2	17	92.1	1116		6.692846	
9	1	11	98.5			6.750149	
10	3	16	63	1440	1496	8.241775	
11	2	15	96.7	1027		8.694003	
12	1	15	86.5			9.684734	
13	3	20	72	1298	1561	10.36344	
14	2	19	82.1	1831		11.230937	
15	2	17	82.7	1966		11.696649	

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	83.7	1881		0.529956	1
1	2	12	75.6	1196		0.837142	
2	1	8	86.8			2.367758	
3	2	8	55.5	1901		2.549477	
4	2	7	74.5	1336		3.599493	
5	3	12	88.8	1821	1212	4.52485	
6	1	13	91.5			4.861075	
7	2	8	81.7	1449		6.261859	
8	2	16	80.5	1596		6.832493	
9	1	10	89.5			7.546175	
10	2	18	50.7	1995		8.12638	
11	3	8	76.5	1021	1213	8.933129	
12	1	15	93.3			9.779421	
13	3	16	62.6	1949	1234	11.147045	
14	2	14	65.2	1083		11.778141	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	56.3			0.52401	1
1	1	16	66.1			1.404749	
2	2	8	95.9	1528		2.089253	
3	1	20	85.4			2.785938	
4	2	9	54.7	1905		3.45438	
5	1	6	56.1			4.09502	
6	2	13	90.1	1937		4.972691	
7	3	18	94.9	1140	1933	5.804155	
8	3	13	52.6	1952	1464	6.339901	
9	1	17	70			6.959675	
10	2	14	98.4	1385		7.83031	
11	2	16	78.6	1536		8.427783	
12	3	16	78.2	1301	1292	9.37613	
13	2	18	63.3	1078		10.219929	
14	3	12	86.8	1977	1167	10.709444	
15	2	19	98.4	1428		11.4557	

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	6	94.5	1137		0.446376	1
1	2	17	57	1015		1.521541	
2	2	16	68.3	1743		3.862735	
3	2	17	84.1	1434		4.464637	
4	2	6	98.7	1844		5.643633	
5	1	10	75.9			6.915606	
6	3	9	66.1	1122	1392	8.871851	
7	1	12	93.1			9.444421	
8	2	10	63.9	1737		11.123113	

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	14	82.7	1492		0.538729	1
1	2	7	94.4	1181		1.189285	
2	2	9	57.1	1832		1.552224	
3	2	9	70.5	1879		1.913258	
4	2	13	75.4	1875		2.752426	
5	2	6	92.1	1439		3.490138	
6	1	11	80.9			3.874525	
7	3	17	58.7	1582	1374	4.974942	
8	1	11	51.5			5.106915	
9	2	12	96.8	1561		5.877648	
10	2	9	54.4	1330		6.592085	
11	1	9	65.4			7.2374	
12	1	15	74.8			8.134305	
13	2	16	95.8	1222		8.81931	
14	1	16	93.9			8.888586	
15	2	10	60.1	1204		9.780669	
16	1	18	80.2			10.529668	
17	2	5	67.8	1575		11.136969	
18	3	10	79	1543	1852	11.439137	

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	13	97.2	1588	1470	0.291387	1
1	1	6	60.6			1.298731	
2	2	12	92.9	1763		2.027631	
3	1	14	90.7			2.206779	
4	1	7	95.3			3.354943	
5	2	16	59.6	1228		3.876876	
6	2	7	75.1	1050		4.714748	
7	1	19	67.4			5.251946	
8	3	17	59.2	1078	1369	5.958904	
9	3	12	73.2	1542	1903	6.769993	
10	3	6	85.2	1540	1809	7.746416	
11	2	16	98.4	1480		8.283704	
12	3	12	57.5	1689	1083	8.97938	
13	2	14	74.1	1513		9.252465	
14	2	14	79	1462		10.064963	
15	2	7	96.4	1427		11.090063	
16	3	16	53.8	1290	1368	11.855701	

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	13	63	1851		0.799001	1
1	1	7	91.9			1.170484	
2	2	17	81.7	1287		2.906506	
3	1	14	84.8			3.701626	
4	2	6	93.3	1802		4.76404	
5	2	19	83.2	1761		5.802793	
6	2	16	60.1	1957		6.807458	
7	2	8	61.4	1928		7.741751	
8	1	9	78.4			9.019123	
9	2	16	72.3	1617		10.379594	
10	2	6	69.2	1172		11.474439	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	52	1837	1144	1.357334	1
1	2	12	57.7	1719		2.689144	
2	3	13	97.1	1326	1017	3.44994	
3	2	15	86.4	1478		4.931734	
4	1	6	78.3			6.720144	
5	3	18	93.2	1670	1579	7.632716	
6	1	18	79.5			10.184937	
7	1	6	67.7			11.607108	

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	20	80.9	1454		0.509453	1
1	2	17	88.1	1584		1.30694	
2	2	14	99.6	1854		1.98861	
3	2	14	81.1	1111		2.502782	
4	2	13	100	1241		3.138801	
5	2	9	71.9	1750		4.317516	
6	2	12	84.7	1037		4.99649	
7	3	13	73.8	1794	1324	5.361495	
8	1	6	75.4			6.638224	
9	1	10	57.8			7.001381	
10	3	10	78.1	1305	1746	8.232969	
11	2	17	84.8	1140		8.4466	
12	2	18	66.2	1110		9.588365	
13	3	9	64	1491	1413	10.132836	
14	1	10	84.2			10.617894	
15	2	9	61	1564		11.418682	

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	12	59	1003	1826	0.889134	1
1	2	13	55.1	1795		1.932386	
2	2	18	93.9	1038		3.350741	
3	2	9	50.3	1297		4.331965	
4	1	14	76			5.554603	
5	2	15	85.9	1816		6.438022	
6	1	7	99			8.125241	
7	2	13	78.5	1870		8.518033	
8	1	9	56.9			10.354054	
9	1	18	95.2			10.921624	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	51.9			0.424341	1
1	2	16	83.8	1201		2.588394	
2	1	17	59.1			3.210444	
3	3	19	67.6	1139	1598	5.573631	
4	1	8	51.8			6.557101	
5	3	9	57.4	1024	1104	7.896564	
6	1	19	63			9.55012	
7	1	9	60.1			10.793935	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	86.8	1427	1177	0.114566	1
1	2	11	65.9	1215		1.687628	
2	1	12	66.2			2.168266	
3	3	17	64.6	1427	1361	3.626272	
4	2	6	90.5	1195		4.137555	
5	1	16	59.7			5.429182	
6	1	14	97.1			6.209398	
7	1	11	100			7.179625	
8	2	17	91.2	1800		7.631136	
9	3	16	90.1	1859	1034	8.611655	
10	3	13	74	1944	1554	9.657923	
11	3	7	97.1	1826	1085	10.223983	
12	1	18	77.5			11.621058	

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	5	86.6			0.551233	1
1	2	15	55.6	1417		1.988896	
2	2	8	83.6	1030		2.433716	
3	2	6	99.8	1739		4.079477	
4	3	8	50.7	1322	1758	5.354712	
5	3	13	82.3	1306	1538	6.212947	
6	2	18	75.2	1728		7.802901	
7	2	12	50.7	1543		9.221592	
8	2	17	94.6	1114		10.602536	
9	2	7	78.4	1774		10.957073	

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	8	86.5	1197		0.465215	1
1	2	17	99.8	1540		1.236296	
2	1	20	98.8			1.826425	
3	1	19	60.9			2.609445	
4	1	9	53.7			3.395991	
5	1	13	88.7			3.929084	
6	2	17	91.6	1366		4.263914	
7	1	11	58.4			5.203011	
8	3	16	60.2	1031	1289	6.301371	
9	2	11	91.1	1064		6.668398	
10	3	14	56.9	1677	1386	7.420788	
11	2	7	68.2	1706		8.353349	
12	1	6	86.8			9.018267	
13	3	10	54.1	1149	1855	9.699171	
14	1	8	73.2			10.265213	
15	3	11	66.2	1945	1734	11.234822	
16	1	9	81.6			11.373984	

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	8	77.1	1256		0.528655	1
1	2	18	64.8	1372		1.112241	
2	1	9	94.7			3.135102	
3	2	5	82.7	1312		3.96923	
4	2	10	69.8	1325		4.821642	
5	2	16	70	1944		5.755671	
6	2	8	70.3	1072		6.877752	
7	2	7	83.6	1704		8.396759	
8	1	12	55.1			9.17301	
9	1	6	61.7			10.730841	
10	2	17	93.3	1452		11.153035	

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	7	52.4			0.466318	1
1	3	9	58.6	1939	1297	1.341796	
2	2	7	69.8	1851		1.820388	
3	2	17	50	1606		2.934356	
4	2	12	50.2	1728		3.433419	
5	3	11	58.9	1109	1155	4.362052	
6	2	10	73.6	1405		4.797175	
7	1	16	63.1			5.445782	
8	2	11	69.4	1798		6.727406	
9	2	6	71.1	1936		6.818716	
10	3	7	99.8	1732	1564	7.536028	
11	2	8	74	1780		8.380698	
12	1	10	82.9			9.489964	
13	1	18	75.4			10.345832	
14	3	18	53.5	1429	1695	10.725337	
15	2	11	73.9	1070		11.389491	

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	5	59.5			0.274822	1
1	2	5	69.7	1245		1.208165	
2	2	14	69.6	1337		1.896144	
3	3	9	75.5	1052	1860	2.067283	
4	3	7	55.7	1665	1842	2.671946	
5	1	19	97.3			3.47399	
6	2	17	97.2	1607		4.440765	
7	1	18	58.2			4.757598	
8	3	17	88.9	1124	1140	5.798749	
9	2	16	64.6	1157		6.071388	
10	3	20	86.1	1682	1135	7.135074	
11	1	18	85.5			7.923234	
12	2	7	94.1	1287		8.340224	
13	1	16	82.2			9.315029	
14	1	10	87.9			9.546814	
15	3	8	89.2	1984	1816	10.480764	
16	2	19	69.8	1647		10.983065	
17	1	13	98.5			11.380175	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	67.5	1307	1140	0.586108	1
1	2	18	53.4	1694		1.379937	
2	2	6	98.7	1193		2.567099	
3	2	14	81.9	1309		4.093141	
4	2	8	69.4	1943		4.545339	
5	3	13	59.5	1937	1411	5.748316	
6	2	16	59.8	1490		6.865755	
7	3	13	55.8	1202	2000	7.890386	
8	2	18	71.9	1210		9.44944	
9	3	12	70.5	1995	1616	9.915273	
10	2	11	78	1600		11.71899	

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	5708.0, 5460.0, 5310.0, 5380.0, 5469.0, 5273.0, 5341.0, 5347.0, 5338.0, 5495.0, 5302.0, 5716.0, 5664.0, 5642.0, 5254.0, 5301.0, 5472.0, 5358.0, 5679.0, 5328.0, 5710.0, 5398.0, 5425.0, 5550.0, 5519.0, 5266.0, 5406.0, 5411.0, 5718.0, 5685.0, 5652.0, 5570.0, 5573.0, 5609.0, 5587.0, 5277.0, 5465.0, 5622.0, 5365.0, 5329.0, 5615.0, 5463.0, 5253.0, 5639.0, 5268.0, 5714.0, 5331.0, 5252.0, 5445.0, 5458.0, 5348.0, 5560.0, 5251.0, 5511.0, 5709.0, 5298.0, 5534.0, 5643.0, 5524.0, 5407.0, 5265.0, 5372.0, 5523.0, 5438.0, 5401.0, 5604.0, 5471.0, 5272.0, 5381.0, 5258.0, 5492.0, 5296.0, 5655.0, 5285.0, 5280.0, 5579.0, 5485.0, 5256.0, 5548.0, 5500.0, 5387.0, 5291.0, 5479.0, 5614.0, 5667.0, 5353.0, 5553.0, 5335.0, 5368.0, 5345.0, 5448.0, 5340.0, 5715.0, 5257.0, 5467.0, 5600.0, 5283.0, 5370.0, 5355.0, 5640.0 (number of hits: 7)
2	5280	9	1	333	1	5669.0, 5495.0, 5404.0, 5452.0, 5385.0, 5401.0, 5593.0, 5589.0, 5636.0, 5504.0, 5517.0, 5655.0, 5266.0, 5657.0, 5640.0, 5557.0, 5333.0, 5474.0, 5703.0, 5408.0, 5562.0, 5381.0, 5295.0, 5620.0, 5530.0, 5582.0, 5310.0, 5462.0, 5461.0, 5308.0, 5563.0, 5332.0, 5371.0, 5293.0, 5524.0, 5442.0, 5491.0, 5335.0, 5439.0, 5541.0, 5699.0, 5420.0, 5586.0, 5370.0, 5552.0, 5291.0, 5319.0, 5256.0, 5630.0, 5522.0, 5316.0, 5427.0, 5506.0, 5516.0, 5405.0, 5561.0, 5286.0, 5347.0, 5576.0, 5587.0, 5683.0, 5650.0, 5382.0, 5497.0, 5569.0, 5275.0, 5611.0, 5378.0, 5613.0, 5290.0, 5284.0, 5673.0, 5306.0, 5692.0, 5446.0, 5595.0, 5523.0, 5409.0, 5575.0, 5668.0, 5252.0, 5637.0, 5418.0, 5264.0, 5596.0, 5337.0, 5287.0, 5460.0, 5568.0, 5584.0, 5680.0, 5394.0, 5605.0, 5723.0, 5616.0, 5271.0, 5512.0, 5710.0, 5448.0, 5701.0 (number of hits: 9)
3	5280	9	1	333	1	5358.0, 5307.0, 5394.0, 5487.0, 5527.0, 5334.0, 5467.0, 5617.0, 5478.0, 5505.0, 5336.0, 5569.0, 5424.0, 5445.0, 5693.0, 5700.0, 5323.0, 5559.0, 5318.0, 5428.0, 5656.0, 5626.0, 5510.0, 5373.0, 5686.0, 5722.0, 5308.0, 5472.0, 5385.0, 5542.0, 5363.0, 5695.0, 5431.0, 5324.0, 5672.0, 5284.0, 5312.0, 5639.0, 5550.0, 5434.0, 5313.0, 5692.0, 5342.0, 5721.0, 5562.0, 5574.0, 5333.0, 5473.0, 5539.0, 5281.0, 5608.0, 5641.0, 5610.0, 5580.0, 5352.0,

						5253.0, 5290.0, 5685.0, 5660.0, 5474.0, 5524.0, 5638.0, 5551.0, 5314.0, 5399.0, 5276.0, 5653.0, 5256.0, 5649.0, 5561.0, 5705.0, 5522.0, 5482.0, 5497.0, 5554.0, 5388.0, 5530.0, 5499.0, 5362.0, 5502.0, 5517.0, 5581.0, 5411.0, 5475.0, 5407.0, 5414.0, 5452.0, 5526.0, 5390.0, 5455.0, 5682.0, 5664.0, 5585.0, 5540.0, 5519.0, 5427.0, 5462.0, 5480.0, 5343.0, 5612.0 (number of hits: 6)
4	5280	9	1	333	1	5386.0, 5494.0, 5346.0, 5563.0, 5455.0, 5639.0, 5327.0, 5632.0, 5273.0, 5357.0, 5331.0, 5332.0, 5485.0, 5503.0, 5404.0, 5587.0, 5308.0, 5436.0, 5690.0, 5678.0, 5469.0, 5375.0, 5641.0, 5640.0, 5318.0, 5524.0, 5310.0, 5602.0, 5486.0, 5558.0, 5372.0, 5424.0, 5272.0, 5380.0, 5345.0, 5282.0, 5626.0, 5326.0, 5371.0, 5303.0, 5599.0, 5607.0, 5657.0, 5278.0, 5268.0, 5663.0, 5275.0, 5290.0, 5488.0, 5421.0, 5347.0, 5625.0, 5463.0, 5673.0, 5293.0, 5349.0, 5405.0, 5704.0, 5302.0, 5359.0, 5505.0, 5696.0, 5596.0, 5694.0, 5312.0, 5706.0, 5664.0, 5361.0, 5720.0, 5634.0, 5615.0, 5601.0, 5379.0, 5716.0, 5309.0, 5685.0, 5458.0, 5545.0, 5256.0, 5315.0, 5450.0, 5592.0, 5325.0, 5265.0, 5656.0, 5604.0, 5305.0, 5439.0, 5333.0, 5422.0, 5267.0, 5442.0, 5529.0, 5283.0, 5702.0, 5284.0, 5520.0, 5715.0, 5666.0, 5502.0 (number of hits: 9)
5	5280	9	1	333	1	5597.0, 5412.0, 5470.0, 5499.0, 5690.0, 5354.0, 5673.0, 5703.0, 5387.0, 5389.0, 5604.0, 5684.0, 5708.0, 5520.0, 5692.0, 5421.0, 5506.0, 5598.0, 5380.0, 5545.0, 5434.0, 5381.0, 5667.0, 5343.0, 5400.0, 5379.0, 5404.0, 5501.0, 5602.0, 5614.0, 5346.0, 5665.0, 5697.0, 5351.0, 5583.0, 5312.0, 5698.0, 5679.0, 5318.0, 5686.0, 5270.0, 5560.0, 5310.0, 5630.0, 5611.0, 5585.0, 5613.0, 5539.0, 5473.0, 5392.0, 5328.0, 5713.0, 5383.0, 5525.0, 5295.0, 5253.0, 5251.0, 5699.0, 5471.0, 5521.0, 5532.0, 5290.0, 5417.0, 5722.0, 5502.0, 5407.0, 5450.0, 5456.0, 5278.0, 5372.0, 5702.0, 5437.0, 5276.0, 5584.0, 5355.0, 5396.0, 5504.0, 5342.0, 5474.0, 5309.0, 5608.0, 5691.0, 5582.0, 5616.0, 5362.0, 5659.0, 5637.0, 5458.0, 5414.0, 5378.0, 5494.0, 5287.0, 5288.0, 5446.0, 5556.0, 5677.0, 5648.0, 5658.0, 5466.0, 5541.0 (number of hits: 7)
6	5280	9	1	333	1	5698.0, 5441.0, 5370.0, 5688.0, 5255.0, 5404.0, 5373.0, 5348.0, 5719.0, 5455.0, 5384.0, 5679.0, 5440.0, 5599.0, 5724.0, 5692.0, 5547.0, 5693.0, 5291.0, 5677.0, 5426.0, 5282.0, 5576.0, 5524.0, 5475.0, 5271.0, 5697.0, 5407.0, 5405.0, 5701.0, 5589.0, 5388.0, 5460.0, 5319.0, 5552.0,

						5623.0, 5364.0, 5619.0, 5320.0, 5467.0, 5491.0, 5294.0, 5704.0, 5518.0, 5507.0, 5485.0, 5338.0, 5575.0, 5399.0, 5408.0, 5431.0, 5464.0, 5578.0, 5570.0, 5413.0, 5661.0, 5362.0, 5285.0, 5540.0, 5510.0, 5580.0, 5604.0, 5463.0, 5436.0, 5435.0, 5425.0, 5304.0, 5416.0, 5443.0, 5359.0, 5611.0, 5639.0, 5316.0, 5286.0, 5339.0, 5558.0, 5462.0, 5390.0, 5563.0, 5616.0, 5301.0, 5610.0, 5368.0, 5299.0, 5665.0, 5378.0, 5437.0, 5273.0, 5642.0, 5566.0, 5674.0, 5489.0, 5335.0, 5482.0, 5551.0, 5574.0, 5618.0, 5493.0, 5314.0, 5357.0 (number of hits: 8)
7	5280	9	1	333	1	5304.0, 5613.0, 5250.0, 5562.0, 5408.0, 5626.0, 5295.0, 5681.0, 5617.0, 5350.0, 5385.0, 5507.0, 5692.0, 5702.0, 5444.0, 5463.0, 5685.0, 5501.0, 5648.0, 5445.0, 5262.0, 5541.0, 5602.0, 5355.0, 5476.0, 5720.0, 5640.0, 5694.0, 5565.0, 5374.0, 5419.0, 5688.0, 5446.0, 5491.0, 5496.0, 5712.0, 5356.0, 5516.0, 5311.0, 5606.0, 5504.0, 5560.0, 5387.0, 5466.0, 5319.0, 5583.0, 5595.0, 5592.0, 5275.0, 5368.0, 5430.0, 5486.0, 5316.0, 5450.0, 5647.0, 5414.0, 5641.0, 5574.0, 5416.0, 5338.0, 5628.0, 5682.0, 5347.0, 5447.0, 5632.0, 5488.0, 5341.0, 5597.0, 5284.0, 5482.0, 5490.0, 5481.0, 5608.0, 5428.0, 5706.0, 5366.0, 5619.0, 5695.0, 5407.0, 5497.0, 5458.0, 5373.0, 5379.0, 5293.0, 5344.0, 5438.0, 5536.0, 5527.0, 5524.0, 5417.0, 5627.0, 5605.0, 5317.0, 5601.0, 5530.0, 5286.0, 5358.0, 5418.0, 5513.0, 5431.0 (number of hits: 5)
8	5280	9	1	333	1	5613.0, 5679.0, 5593.0, 5268.0, 5555.0, 5369.0, 5632.0, 5610.0, 5332.0, 5638.0, 5684.0, 5591.0, 5301.0, 5700.0, 5359.0, 5261.0, 5551.0, 5690.0, 5623.0, 5466.0, 5441.0, 5515.0, 5514.0, 5576.0, 5673.0, 5603.0, 5334.0, 5609.0, 5701.0, 5481.0, 5698.0, 5622.0, 5482.0, 5522.0, 5360.0, 5315.0, 5447.0, 5616.0, 5432.0, 5510.0, 5581.0, 5297.0, 5640.0, 5300.0, 5575.0, 5420.0, 5319.0, 5566.0, 5540.0, 5534.0, 5413.0, 5457.0, 5633.0, 5572.0, 5567.0, 5361.0, 5283.0, 5537.0, 5548.0, 5469.0, 5533.0, 5270.0, 5496.0, 5468.0, 5607.0, 5677.0, 5375.0, 5658.0, 5687.0, 5588.0, 5652.0, 5404.0, 5387.0, 5697.0, 5250.0, 5641.0, 5552.0, 5264.0, 5497.0, 5636.0, 5257.0, 5604.0, 5704.0, 5541.0, 5503.0, 5558.0, 5365.0, 5343.0, 5427.0, 5484.0, 5288.0, 5266.0, 5435.0, 5388.0, 5586.0, 5544.0, 5680.0, 5612.0, 5330.0, 5267.0 (number of hits: 4)
9	5280	9	1	333	1	5273.0, 5397.0, 5522.0, 5714.0, 5324.0, 5597.0, 5657.0, 5452.0, 5275.0, 5297.0, 5403.0, 5391.0, 5677.0, 5577.0, 5479.0,

						5676.0, 5507.0, 5661.0, 5318.0, 5705.0, 5390.0, 5373.0, 5407.0, 5603.0, 5576.0, 5364.0, 5327.0, 5692.0, 5632.0, 5441.0, 5718.0, 5430.0, 5311.0, 5300.0, 5312.0, 5671.0, 5528.0, 5316.0, 5558.0, 5512.0, 5423.0, 5305.0, 5636.0, 5693.0, 5701.0, 5552.0, 5706.0, 5645.0, 5557.0, 5433.0, 5306.0, 5344.0, 5651.0, 5630.0, 5440.0, 5308.0, 5394.0, 5503.0, 5495.0, 5380.0, 5282.0, 5532.0, 5506.0, 5389.0, 5303.0, 5614.0, 5574.0, 5382.0, 5599.0, 5610.0, 5621.0, 5320.0, 5342.0, 5335.0, 5549.0, 5582.0, 5296.0, 5573.0, 5665.0, 5402.0, 5457.0, 5514.0, 5385.0, 5392.0, 5642.0, 5553.0, 5646.0, 5519.0, 5681.0, 5711.0, 5467.0, 5351.0, 5281.0, 5276.0, 5449.0, 5461.0, 5473.0, 5472.0, 5334.0, 5267.0 (number of hits: 9)
10	5280	9	1	333	1	5708.0, 5497.0, 5638.0, 5668.0, 5565.0, 5616.0, 5412.0, 5329.0, 5591.0, 5558.0, 5626.0, 5594.0, 5687.0, 5291.0, 5345.0, 5420.0, 5641.0, 5348.0, 5299.0, 5419.0, 5441.0, 5395.0, 5359.0, 5377.0, 5384.0, 5573.0, 5701.0, 5408.0, 5271.0, 5270.0, 5580.0, 5595.0, 5491.0, 5524.0, 5555.0, 5432.0, 5711.0, 5598.0, 5480.0, 5337.0, 5612.0, 5367.0, 5585.0, 5624.0, 5571.0, 5363.0, 5546.0, 5280.0, 5333.0, 5512.0, 5415.0, 5304.0, 5488.0, 5622.0, 5477.0, 5466.0, 5276.0, 5318.0, 5518.0, 5578.0, 5501.0, 5484.0, 5288.0, 5344.0, 5696.0, 5548.0, 5684.0, 5327.0, 5715.0, 5671.0, 5421.0, 5325.0, 5543.0, 5562.0, 5471.0, 5354.0, 5545.0, 5653.0, 5554.0, 5456.0, 5378.0, 5468.0, 5609.0, 5673.0, 5498.0, 5523.0, 5383.0, 5674.0, 5640.0, 5332.0, 5647.0, 5540.0, 5606.0, 5362.0, 5550.0, 5691.0, 5507.0, 5623.0, 5510.0, 5454.0 (number of hits: 4)
11	5280	9	1	333	1	5262.0, 5250.0, 5299.0, 5406.0, 5292.0, 5629.0, 5450.0, 5269.0, 5530.0, 5630.0, 5278.0, 5446.0, 5683.0, 5276.0, 5272.0, 5622.0, 5676.0, 5587.0, 5510.0, 5633.0, 5563.0, 5429.0, 5328.0, 5311.0, 5616.0, 5470.0, 5369.0, 5706.0, 5401.0, 5596.0, 5315.0, 5548.0, 5584.0, 5492.0, 5323.0, 5685.0, 5332.0, 5386.0, 5413.0, 5708.0, 5698.0, 5461.0, 5438.0, 5533.0, 5387.0, 5621.0, 5506.0, 5497.0, 5626.0, 5383.0, 5337.0, 5648.0, 5263.0, 5657.0, 5348.0, 5521.0, 5637.0, 5697.0, 5576.0, 5264.0, 5589.0, 5252.0, 5562.0, 5327.0, 5331.0, 5620.0, 5364.0, 5542.0, 5632.0, 5265.0, 5663.0, 5709.0, 5573.0, 5296.0, 5614.0, 5679.0, 5338.0, 5495.0, 5666.0, 5281.0, 5408.0, 5377.0, 5372.0, 5696.0, 5448.0, 5512.0, 5609.0, 5716.0, 5422.0, 5668.0, 5593.0, 5516.0, 5564.0, 5355.0, 5313.0, 5625.0, 5514.0, 5405.0, 5482.0, 5619.0

						(number of hits: 5)
12	5280	9	1	333	1	5722.0, 5563.0, 5254.0, 5444.0, 5620.0, 5472.0, 5702.0, 5519.0, 5403.0, 5331.0, 5654.0, 5282.0, 5723.0, 5265.0, 5317.0, 5297.0, 5268.0, 5665.0, 5622.0, 5428.0, 5432.0, 5575.0, 5416.0, 5400.0, 5525.0, 5631.0, 5490.0, 5507.0, 5510.0, 5461.0, 5390.0, 5283.0, 5327.0, 5678.0, 5559.0, 5256.0, 5496.0, 5467.0, 5259.0, 5503.0, 5458.0, 5553.0, 5624.0, 5536.0, 5412.0, 5708.0, 5637.0, 5603.0, 5650.0, 5661.0, 5501.0, 5252.0, 5309.0, 5350.0, 5312.0, 5376.0, 5560.0, 5573.0, 5359.0, 5328.0, 5582.0, 5438.0, 5578.0, 5255.0, 5679.0, 5349.0, 5528.0, 5529.0, 5657.0, 5591.0, 5455.0, 5439.0, 5421.0, 5540.0, 5301.0, 5595.0, 5484.0, 5429.0, 5372.0, 5604.0, 5339.0, 5354.0, 5480.0, 5606.0, 5424.0, 5392.0, 5668.0, 5425.0, 5609.0, 5574.0, 5477.0, 5643.0, 5517.0, 5441.0, 5585.0, 5468.0, 5524.0, 5694.0, 5336.0, 5420.0
						(number of hits: 4)
13	5280	9	1	333	1	5256.0, 5631.0, 5467.0, 5676.0, 5544.0, 5518.0, 5621.0, 5496.0, 5516.0, 5680.0, 5320.0, 5709.0, 5679.0, 5607.0, 5650.0, 5407.0, 5579.0, 5358.0, 5410.0, 5473.0, 5399.0, 5333.0, 5454.0, 5313.0, 5670.0, 5489.0, 5471.0, 5368.0, 5541.0, 5319.0, 5639.0, 5669.0, 5713.0, 5646.0, 5464.0, 5335.0, 5584.0, 5637.0, 5381.0, 5299.0, 5441.0, 5557.0, 5460.0, 5499.0, 5384.0, 5674.0, 5347.0, 5590.0, 5514.0, 5292.0, 5436.0, 5687.0, 5361.0, 5595.0, 5583.0, 5383.0, 5566.0, 5574.0, 5396.0, 5306.0, 5295.0, 5375.0, 5699.0, 5483.0, 5448.0, 5433.0, 5654.0, 5558.0, 5359.0, 5420.0, 5264.0, 5322.0, 5619.0, 5251.0, 5716.0, 5438.0, 5554.0, 5718.0, 5644.0, 5323.0, 5416.0, 5538.0, 5386.0, 5540.0, 5555.0, 5350.0, 5643.0, 5258.0, 5551.0, 5698.0, 5482.0, 5501.0, 5257.0, 5620.0, 5362.0, 5455.0, 5605.0, 5345.0, 5688.0, 5424.0
						(number of hits: 5)
14	5280	9	1	333	1	5545.0, 5682.0, 5680.0, 5619.0, 5474.0, 5355.0, 5565.0, 5448.0, 5541.0, 5662.0, 5440.0, 5395.0, 5517.0, 5417.0, 5714.0, 5295.0, 5422.0, 5571.0, 5352.0, 5425.0, 5343.0, 5477.0, 5723.0, 5566.0, 5367.0, 5596.0, 5618.0, 5282.0, 5646.0, 5655.0, 5624.0, 5358.0, 5540.0, 5357.0, 5469.0, 5561.0, 5521.0, 5716.0, 5585.0, 5643.0, 5468.0, 5580.0, 5499.0, 5503.0, 5310.0, 5426.0, 5287.0, 5589.0, 5595.0, 5537.0, 5327.0, 5515.0, 5671.0, 5546.0, 5552.0, 5508.0, 5459.0, 5263.0, 5514.0, 5572.0, 5296.0, 5430.0, 5321.0, 5490.0, 5567.0, 5695.0, 5252.0, 5276.0, 5544.0, 5667.0, 5636.0, 5505.0, 5543.0, 5388.0, 5437.0, 5420.0, 5498.0, 5280.0, 5581.0, 5696.0

						5458.0, 5707.0, 5709.0, 5312.0, 5304.0, 5453.0, 5719.0, 5651.0, 5390.0, 5360.0, 5701.0, 5373.0, 5500.0, 5652.0, 5273.0, 5314.0, 5336.0, 5606.0, 5720.0, 5379.0 (number of hits: 7)
15	5280	9	1	333	1	5693.0, 5510.0, 5262.0, 5314.0, 5499.0, 5446.0, 5715.0, 5447.0, 5602.0, 5439.0, 5326.0, 5647.0, 5668.0, 5557.0, 5407.0, 5358.0, 5497.0, 5502.0, 5418.0, 5529.0, 5331.0, 5534.0, 5443.0, 5460.0, 5667.0, 5405.0, 5392.0, 5272.0, 5651.0, 5606.0, 5351.0, 5549.0, 5706.0, 5387.0, 5269.0, 5688.0, 5305.0, 5565.0, 5654.0, 5612.0, 5671.0, 5523.0, 5431.0, 5676.0, 5391.0, 5697.0, 5402.0, 5349.0, 5266.0, 5705.0, 5561.0, 5538.0, 5628.0, 5650.0, 5285.0, 5459.0, 5698.0, 5530.0, 5609.0, 5426.0, 5371.0, 5390.0, 5535.0, 5544.0, 5686.0, 5626.0, 5546.0, 5367.0, 5258.0, 5376.0, 5374.0, 5388.0, 5503.0, 5334.0, 5601.0, 5577.0, 5437.0, 5373.0, 5489.0, 5287.0, 5545.0, 5471.0, 5710.0, 5618.0, 5678.0, 5682.0, 5467.0, 5571.0, 5320.0, 5461.0, 5513.0, 5293.0, 5624.0, 5477.0, 5703.0, 5306.0, 5339.0, 5684.0, 5524.0, 5280.0 (number of hits: 6)
16	5280	9	1	333	1	5525.0, 5631.0, 5603.0, 5610.0, 5282.0, 5317.0, 5614.0, 5632.0, 5534.0, 5314.0, 5640.0, 5506.0, 5302.0, 5416.0, 5597.0, 5680.0, 5354.0, 5339.0, 5565.0, 5686.0, 5296.0, 5657.0, 5273.0, 5251.0, 5628.0, 5440.0, 5718.0, 5255.0, 5493.0, 5683.0, 5592.0, 5569.0, 5487.0, 5373.0, 5315.0, 5662.0, 5470.0, 5510.0, 5642.0, 5399.0, 5410.0, 5524.0, 5450.0, 5322.0, 5351.0, 5392.0, 5275.0, 5453.0, 5293.0, 5583.0, 5437.0, 5702.0, 5579.0, 5390.0, 5531.0, 5688.0, 5475.0, 5320.0, 5332.0, 5667.0, 5278.0, 5529.0, 5319.0, 5677.0, 5678.0, 5430.0, 5359.0, 5509.0, 5292.0, 5473.0, 5643.0, 5619.0, 5656.0, 5596.0, 5433.0, 5395.0, 5258.0, 5533.0, 5321.0, 5261.0, 5284.0, 5277.0, 5492.0, 5311.0, 5696.0, 5699.0, 5303.0, 5589.0, 5609.0, 5576.0, 5454.0, 5558.0, 5439.0, 5269.0, 5344.0, 5253.0, 5341.0, 5495.0, 5407.0, 5491.0 (number of hits: 7)
17	5280	9	1	333	1	5711.0, 5505.0, 5641.0, 5626.0, 5363.0, 5419.0, 5674.0, 5423.0, 5556.0, 5644.0, 5720.0, 5256.0, 5623.0, 5322.0, 5328.0, 5321.0, 5303.0, 5291.0, 5299.0, 5473.0, 5537.0, 5535.0, 5680.0, 5276.0, 5597.0, 5676.0, 5266.0, 5388.0, 5625.0, 5273.0, 5454.0, 5458.0, 5519.0, 5686.0, 5343.0, 5569.0, 5647.0, 5295.0, 5456.0, 5337.0, 5464.0, 5536.0, 5395.0, 5631.0, 5396.0, 5530.0, 5340.0, 5455.0, 5586.0, 5483.0, 5253.0, 5522.0, 5645.0, 5257.0, 5285.0, 5460.0, 5421.0, 5429.0, 5435.0, 5539.0,

						5412.0, 5620.0, 5497.0, 5431.0, 5499.0, 5402.0, 5407.0, 5594.0, 5332.0, 5474.0, 5453.0, 5348.0, 5415.0, 5312.0, 5662.0, 5278.0, 5559.0, 5646.0, 5547.0, 5331.0, 5616.0, 5629.0, 5378.0, 5484.0, 5346.0, 5713.0, 5425.0, 5604.0, 5511.0, 5398.0, 5613.0, 5495.0, 5717.0, 5663.0, 5406.0, 5283.0, 5526.0, 5694.0, 5610.0, 5410.0 (number of hits: 6)
18	5280	9	1	333	1	5504.0, 5663.0, 5636.0, 5407.0, 5583.0, 5488.0, 5277.0, 5520.0, 5350.0, 5481.0, 5393.0, 5378.0, 5538.0, 5625.0, 5682.0, 5579.0, 5290.0, 5416.0, 5656.0, 5499.0, 5382.0, 5508.0, 5698.0, 5500.0, 5472.0, 5406.0, 5691.0, 5391.0, 5399.0, 5633.0, 5423.0, 5676.0, 5479.0, 5465.0, 5388.0, 5264.0, 5692.0, 5606.0, 5360.0, 5459.0, 5665.0, 5501.0, 5487.0, 5343.0, 5526.0, 5313.0, 5439.0, 5709.0, 5448.0, 5542.0, 5546.0, 5530.0, 5421.0, 5412.0, 5307.0, 5629.0, 5641.0, 5565.0, 5349.0, 5252.0, 5523.0, 5720.0, 5324.0, 5328.0, 5517.0, 5623.0, 5528.0, 5302.0, 5364.0, 5415.0, 5363.0, 5454.0, 5502.0, 5573.0, 5689.0, 5678.0, 5521.0, 5713.0, 5540.0, 5394.0, 5336.0, 5699.0, 5669.0, 5552.0, 5673.0, 5620.0, 5286.0, 5650.0, 5451.0, 5322.0, 5428.0, 5685.0, 5718.0, 5711.0, 5440.0, 5464.0, 5329.0, 5496.0, 5555.0, 5674.0 (number of hits: 5)
19	5280	9	1	333	1	5576.0, 5547.0, 5562.0, 5425.0, 5437.0, 5593.0, 5480.0, 5358.0, 5494.0, 5395.0, 5559.0, 5290.0, 5598.0, 5566.0, 5587.0, 5301.0, 5568.0, 5616.0, 5366.0, 5382.0, 5604.0, 5530.0, 5413.0, 5403.0, 5691.0, 5319.0, 5350.0, 5336.0, 5348.0, 5609.0, 5717.0, 5448.0, 5538.0, 5532.0, 5445.0, 5362.0, 5484.0, 5666.0, 5543.0, 5563.0, 5591.0, 5467.0, 5535.0, 5646.0, 5602.0, 5400.0, 5669.0, 5384.0, 5481.0, 5554.0, 5578.0, 5337.0, 5297.0, 5611.0, 5288.0, 5627.0, 5409.0, 5545.0, 5570.0, 5660.0, 5507.0, 5614.0, 5670.0, 5575.0, 5392.0, 5372.0, 5488.0, 5279.0, 5261.0, 5471.0, 5486.0, 5274.0, 5628.0, 5569.0, 5354.0, 5626.0, 5379.0, 5411.0, 5685.0, 5589.0, 5260.0, 5435.0, 5504.0, 5273.0, 5330.0, 5465.0, 5441.0, 5406.0, 5652.0, 5572.0, 5272.0, 5255.0, 5280.0, 5424.0, 5718.0, 5408.0, 5421.0, 5706.0, 5299.0, 5631.0 (number of hits: 5)
20	5280	9	1	333	1	5251.0, 5306.0, 5382.0, 5711.0, 5656.0, 5674.0, 5356.0, 5561.0, 5531.0, 5336.0, 5718.0, 5567.0, 5364.0, 5274.0, 5263.0, 5370.0, 5639.0, 5716.0, 5271.0, 5326.0, 5432.0, 5603.0, 5423.0, 5552.0, 5367.0, 5379.0, 5670.0, 5340.0, 5568.0, 5495.0, 5462.0, 5577.0, 5613.0, 5581.0, 5664.0, 5626.0, 5371.0, 5485.0, 5290.0, 5428.0,

						5616.0, 5532.0, 5375.0, 5482.0, 5347.0, 5606.0, 5595.0, 5426.0, 5715.0, 5678.0, 5258.0, 5591.0, 5430.0, 5573.0, 5707.0, 5631.0, 5640.0, 5448.0, 5439.0, 5399.0, 5442.0, 5383.0, 5455.0, 5555.0, 5582.0, 5368.0, 5570.0, 5493.0, 5572.0, 5332.0, 5466.0, 5331.0, 5693.0, 5441.0, 5504.0, 5556.0, 5698.0, 5459.0, 5285.0, 5298.0, 5427.0, 5330.0, 5645.0, 5266.0, 5635.0, 5413.0, 5388.0, 5689.0, 5530.0, 5458.0, 5318.0, 5683.0, 5348.0, 5516.0, 5623.0, 5652.0, 5647.0, 5292.0, 5478.0, 5259.0 (number of hits: 5)
21	5280	9	1	333	1	5356.0, 5507.0, 5376.0, 5473.0, 5384.0, 5721.0, 5622.0, 5460.0, 5517.0, 5689.0, 5699.0, 5382.0, 5323.0, 5355.0, 5541.0, 5295.0, 5547.0, 5438.0, 5281.0, 5322.0, 5401.0, 5668.0, 5300.0, 5475.0, 5378.0, 5354.0, 5506.0, 5663.0, 5313.0, 5269.0, 5386.0, 5392.0, 5286.0, 5720.0, 5703.0, 5530.0, 5674.0, 5435.0, 5266.0, 5528.0, 5365.0, 5664.0, 5698.0, 5352.0, 5380.0, 5325.0, 5718.0, 5364.0, 5509.0, 5369.0, 5305.0, 5362.0, 5619.0, 5411.0, 5433.0, 5675.0, 5403.0, 5283.0, 5262.0, 5341.0, 5574.0, 5458.0, 5537.0, 5270.0, 5361.0, 5607.0, 5597.0, 5427.0, 5587.0, 5508.0, 5271.0, 5667.0, 5336.0, 5418.0, 5566.0, 5326.0, 5303.0, 5490.0, 5393.0, 5620.0, 5277.0, 5612.0, 5489.0, 5629.0, 5684.0, 5312.0, 5641.0, 5526.0, 5523.0, 5687.0, 5567.0, 5568.0, 5504.0, 5554.0, 5503.0, 5255.0, 5555.0, 5669.0, 5628.0, 5259.0 (number of hits: 7)
22	5280	9	1	333	1	5667.0, 5302.0, 5438.0, 5665.0, 5592.0, 5436.0, 5605.0, 5672.0, 5679.0, 5517.0, 5450.0, 5673.0, 5367.0, 5268.0, 5575.0, 5558.0, 5496.0, 5394.0, 5284.0, 5466.0, 5480.0, 5698.0, 5642.0, 5465.0, 5593.0, 5389.0, 5618.0, 5571.0, 5369.0, 5637.0, 5399.0, 5277.0, 5713.0, 5283.0, 5606.0, 5434.0, 5355.0, 5418.0, 5646.0, 5722.0, 5584.0, 5596.0, 5253.0, 5390.0, 5658.0, 5301.0, 5328.0, 5325.0, 5494.0, 5566.0, 5570.0, 5291.0, 5354.0, 5259.0, 5545.0, 5714.0, 5391.0, 5364.0, 5656.0, 5675.0, 5462.0, 5544.0, 5457.0, 5456.0, 5624.0, 5577.0, 5492.0, 5274.0, 5334.0, 5384.0, 5429.0, 5534.0, 5393.0, 5625.0, 5559.0, 5339.0, 5704.0, 5603.0, 5336.0, 5379.0, 5643.0, 5706.0, 5372.0, 5628.0, 5290.0, 5633.0, 5441.0, 5680.0, 5445.0, 5548.0, 5607.0, 5655.0, 5499.0, 5333.0, 5304.0, 5493.0, 5636.0, 5664.0, 5309.0, 5362.0 (number of hits: 6)
23	5280	9	1	333	1	5395.0, 5527.0, 5411.0, 5440.0, 5389.0, 5565.0, 5345.0, 5507.0, 5594.0, 5444.0, 5525.0, 5463.0, 5696.0, 5671.0, 5562.0, 5636.0, 5427.0, 5261.0, 5312.0, 5275.0,

						5664.0, 5546.0, 5499.0, 5661.0, 5447.0, 5699.0, 5385.0, 5687.0, 5379.0, 5266.0, 5522.0, 5719.0, 5358.0, 5336.0, 5678.0, 5448.0, 5441.0, 5268.0, 5662.0, 5352.0, 5333.0, 5559.0, 5618.0, 5698.0, 5548.0, 5544.0, 5331.0, 5722.0, 5680.0, 5417.0, 5424.0, 5259.0, 5529.0, 5397.0, 5550.0, 5673.0, 5691.0, 5626.0, 5295.0, 5515.0, 5568.0, 5721.0, 5296.0, 5653.0, 5513.0, 5326.0, 5595.0, 5633.0, 5461.0, 5531.0, 5380.0, 5332.0, 5262.0, 5323.0, 5612.0, 5543.0, 5598.0, 5724.0, 5376.0, 5657.0, 5674.0, 5686.0, 5338.0, 5423.0, 5670.0, 5462.0, 5485.0, 5342.0, 5702.0, 5547.0, 5535.0, 5361.0, 5588.0, 5290.0, 5574.0, 5446.0, 5484.0, 5498.0, 5521.0, 5658.0 (number of hits: 4)
24	5280	9	1	333	1	5437.0, 5277.0, 5483.0, 5687.0, 5314.0, 5490.0, 5696.0, 5643.0, 5296.0, 5355.0, 5336.0, 5370.0, 5320.0, 5689.0, 5302.0, 5590.0, 5267.0, 5251.0, 5577.0, 5254.0, 5281.0, 5554.0, 5295.0, 5711.0, 5347.0, 5458.0, 5414.0, 5402.0, 5361.0, 5621.0, 5695.0, 5612.0, 5623.0, 5659.0, 5529.0, 5446.0, 5664.0, 5562.0, 5425.0, 5321.0, 5409.0, 5418.0, 5327.0, 5671.0, 5629.0, 5702.0, 5453.0, 5343.0, 5644.0, 5441.0, 5606.0, 5421.0, 5665.0, 5690.0, 5663.0, 5258.0, 5417.0, 5539.0, 5489.0, 5384.0, 5287.0, 5463.0, 5684.0, 5371.0, 5434.0, 5356.0, 5528.0, 5686.0, 5625.0, 5286.0, 5672.0, 5566.0, 5436.0, 5578.0, 5531.0, 5477.0, 5611.0, 5353.0, 5374.0, 5311.0, 5550.0, 5639.0, 5464.0, 5632.0, 5427.0, 5649.0, 5600.0, 5386.0, 5429.0, 5461.0, 5433.0, 5382.0, 5332.0, 5330.0, 5638.0, 5546.0, 5331.0, 5375.0, 5507.0, 5390.0 (number of hits: 7)
25	5280	9	1	333	1	5261.0, 5501.0, 5643.0, 5329.0, 5376.0, 5280.0, 5459.0, 5660.0, 5323.0, 5427.0, 5721.0, 5568.0, 5537.0, 5403.0, 5412.0, 5548.0, 5627.0, 5487.0, 5359.0, 5377.0, 5575.0, 5457.0, 5680.0, 5563.0, 5413.0, 5504.0, 5669.0, 5697.0, 5693.0, 5500.0, 5631.0, 5448.0, 5320.0, 5357.0, 5555.0, 5302.0, 5361.0, 5266.0, 5449.0, 5699.0, 5364.0, 5408.0, 5406.0, 5554.0, 5674.0, 5467.0, 5393.0, 5318.0, 5379.0, 5584.0, 5470.0, 5349.0, 5375.0, 5273.0, 5263.0, 5344.0, 5694.0, 5503.0, 5696.0, 5401.0, 5282.0, 5378.0, 5703.0, 5551.0, 5297.0, 5499.0, 5275.0, 5722.0, 5648.0, 5532.0, 5259.0, 5549.0, 5283.0, 5588.0, 5462.0, 5642.0, 5442.0, 5352.0, 5252.0, 5581.0, 5287.0, 5509.0, 5400.0, 5572.0, 5579.0, 5354.0, 5313.0, 5700.0, 5255.0, 5306.0, 5471.0, 5528.0, 5634.0, 5304.0, 5672.0, 5714.0, 5251.0, 5440.0, 5333.0, 5515.0 (number of hits: 6)

26	5280	9	1	333	1	5509.0, 5458.0, 5636.0, 5673.0, 5528.0, 5299.0, 5400.0, 5252.0, 5394.0, 5430.0, 5609.0, 5657.0, 5542.0, 5495.0, 5592.0, 5445.0, 5483.0, 5685.0, 5522.0, 5388.0, 5705.0, 5553.0, 5541.0, 5393.0, 5411.0, 5448.0, 5686.0, 5381.0, 5421.0, 5385.0, 5523.0, 5650.0, 5617.0, 5352.0, 5460.0, 5464.0, 5376.0, 5642.0, 5628.0, 5692.0, 5289.0, 5630.0, 5485.0, 5499.0, 5357.0, 5567.0, 5720.0, 5524.0, 5330.0, 5409.0, 5544.0, 5318.0, 5616.0, 5294.0, 5281.0, 5284.0, 5412.0, 5389.0, 5626.0, 5434.0, 5413.0, 5444.0, 5450.0, 5442.0, 5694.0, 5712.0, 5424.0, 5341.0, 5292.0, 5599.0, 5537.0, 5621.0, 5355.0, 5574.0, 5568.0, 5392.0, 5646.0, 5325.0, 5316.0, 5395.0, 5652.0, 5667.0, 5577.0, 5622.0, 5270.0, 5420.0, 5582.0, 5368.0, 5337.0, 5620.0, 5661.0, 5406.0, 5349.0, 5591.0, 5683.0, 5594.0, 5285.0, 5708.0, 5703.0, 5570.0 (number of hits: 5)
27	5280	9	1	333	1	5571.0, 5574.0, 5318.0, 5632.0, 5505.0, 5651.0, 5450.0, 5269.0, 5294.0, 5501.0, 5604.0, 5362.0, 5331.0, 5418.0, 5470.0, 5575.0, 5638.0, 5338.0, 5407.0, 5704.0, 5662.0, 5271.0, 5544.0, 5302.0, 5468.0, 5477.0, 5462.0, 5599.0, 5260.0, 5281.0, 5577.0, 5425.0, 5342.0, 5558.0, 5439.0, 5352.0, 5394.0, 5440.0, 5593.0, 5303.0, 5514.0, 5268.0, 5722.0, 5513.0, 5444.0, 5659.0, 5535.0, 5309.0, 5387.0, 5434.0, 5291.0, 5313.0, 5364.0, 5466.0, 5335.0, 5308.0, 5310.0, 5340.0, 5405.0, 5715.0, 5581.0, 5465.0, 5572.0, 5353.0, 5657.0, 5336.0, 5592.0, 5630.0, 5488.0, 5705.0, 5386.0, 5682.0, 5456.0, 5350.0, 5566.0, 5409.0, 5527.0, 5665.0, 5374.0, 5274.0, 5710.0, 5290.0, 5666.0, 5399.0, 5393.0, 5654.0, 5263.0, 5550.0, 5602.0, 5681.0, 5564.0, 5285.0, 5471.0, 5443.0, 5415.0, 5719.0, 5551.0, 5676.0, 5721.0, 5609.0 (number of hits: 10)
28	5280	9	1	333	1	5685.0, 5430.0, 5625.0, 5576.0, 5427.0, 5701.0, 5519.0, 5300.0, 5365.0, 5379.0, 5712.0, 5342.0, 5563.0, 5334.0, 5652.0, 5423.0, 5335.0, 5360.0, 5645.0, 5654.0, 5285.0, 5321.0, 5723.0, 5332.0, 5299.0, 5503.0, 5494.0, 5703.0, 5597.0, 5640.0, 5559.0, 5425.0, 5456.0, 5695.0, 5468.0, 5409.0, 5642.0, 5449.0, 5499.0, 5714.0, 5497.0, 5346.0, 5496.0, 5504.0, 5274.0, 5433.0, 5286.0, 5664.0, 5616.0, 5583.0, 5560.0, 5371.0, 5451.0, 5536.0, 5670.0, 5387.0, 5312.0, 5413.0, 5659.0, 5421.0, 5675.0, 5532.0, 5538.0, 5720.0, 5452.0, 5337.0, 5540.0, 5606.0, 5702.0, 5256.0, 5267.0, 5482.0, 5470.0, 5673.0, 5698.0, 5419.0, 5362.0, 5649.0, 5661.0, 5719.0, 5707.0, 5553.0, 5612.0, 5344.0, 5530.0

						5258.0, 5260.0, 5587.0, 5564.0, 5543.0, 5713.0, 5631.0, 5345.0, 5513.0, 5569.0, 5582.0, 5257.0, 5401.0, 5487.0, 5347.0 (number of hits: 5)
29	5280	9	1	333	1	5592.0, 5325.0, 5389.0, 5536.0, 5288.0, 5269.0, 5362.0, 5398.0, 5529.0, 5522.0, 5314.0, 5693.0, 5355.0, 5478.0, 5250.0, 5297.0, 5320.0, 5708.0, 5251.0, 5643.0, 5720.0, 5494.0, 5439.0, 5365.0, 5580.0, 5343.0, 5283.0, 5386.0, 5476.0, 5705.0, 5465.0, 5448.0, 5457.0, 5520.0, 5308.0, 5660.0, 5658.0, 5286.0, 5360.0, 5394.0, 5438.0, 5641.0, 5626.0, 5639.0, 5364.0, 5399.0, 5651.0, 5570.0, 5267.0, 5333.0, 5468.0, 5541.0, 5435.0, 5672.0, 5429.0, 5359.0, 5463.0, 5291.0, 5710.0, 5383.0, 5259.0, 5492.0, 5302.0, 5458.0, 5526.0, 5456.0, 5623.0, 5673.0, 5278.0, 5523.0, 5632.0, 5532.0, 5642.0, 5551.0, 5519.0, 5612.0, 5473.0, 5477.0, 5357.0, 5384.0, 5483.0, 5488.0, 5397.0, 5605.0, 5659.0, 5282.0, 5650.0, 5707.0, 5272.0, 5652.0, 5510.0, 5583.0, 5514.0, 5361.0, 5491.0, 5447.0, 5490.0, 5587.0, 5499.0, 5446.0 (number of hits: 7)
30	5280	9	1	333	1	5625.0, 5350.0, 5336.0, 5667.0, 5295.0, 5318.0, 5406.0, 5680.0, 5537.0, 5400.0, 5529.0, 5484.0, 5556.0, 5460.0, 5617.0, 5691.0, 5722.0, 5465.0, 5353.0, 5588.0, 5255.0, 5663.0, 5394.0, 5323.0, 5273.0, 5640.0, 5662.0, 5592.0, 5396.0, 5523.0, 5300.0, 5551.0, 5561.0, 5699.0, 5296.0, 5480.0, 5387.0, 5370.0, 5404.0, 5557.0, 5681.0, 5470.0, 5630.0, 5362.0, 5568.0, 5518.0, 5515.0, 5629.0, 5265.0, 5435.0, 5668.0, 5313.0, 5714.0, 5642.0, 5291.0, 5402.0, 5408.0, 5687.0, 5409.0, 5427.0, 5256.0, 5575.0, 5345.0, 5277.0, 5678.0, 5442.0, 5260.0, 5616.0, 5304.0, 5597.0, 5324.0, 5538.0, 5638.0, 5289.0, 5326.0, 5709.0, 5586.0, 5526.0, 5328.0, 5351.0, 5593.0, 5310.0, 5447.0, 5536.0, 5302.0, 5322.0, 5448.0, 5567.0, 5469.0, 5337.0, 5383.0, 5274.0, 5706.0, 5658.0, 5516.0, 5669.0, 5550.0, 5343.0, 5386.0, 5647.0 (number of hits: 9)

5580 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	93.3 %	60%	Pass
Type 2	30	93.3 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	94.975 %	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	0
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	0
28	5580	18	1	1428	1
29	5580	18	1	1428	1
30	5580	18	1	1428	1
Detection Percentage: 93.3 % (>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	27	4.8	175	1
2	5580	23	1.4	155	1
3	5580	24	3.1	197	1
4	5580	29	1.7	211	1
5	5580	27	1.4	174	1
6	5580	23	2.3	153	1
7	5580	27	5	168	1
8	5580	24	2.3	194	1
9	5580	28	2	205	1
10	5580	29	3.4	155	1
11	5580	25	4.4	180	1
12	5580	29	2.8	172	1
13	5580	23	2.3	206	1
14	5580	27	1.4	222	1
15	5580	23	3.7	219	0
16	5580	23	1.2	203	1
17	5580	23	4.4	199	1
18	5580	24	4.6	217	0
19	5580	26	2.4	160	1
20	5580	28	1.7	200	1
21	5580	23	4.1	195	1
22	5580	26	4.6	218	1
23	5580	23	4.5	172	1
24	5580	23	1.3	216	1
25	5580	26	1.4	197	1
26	5580	24	2.2	167	1
27	5580	24	5	165	1
28	5580	25	2.8	222	1
29	5580	27	3.7	193	1
30	5580	29	1.5	193	1
Detection Percentage: 93.3% (>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	18	6	332	1
2	5580	18	6	240	0
3	5580	16	7.7	347	1
4	5580	16	8.4	259	1
5	5580	16	8.9	401	1
6	5580	17	7.9	243	1
7	5580	17	10	451	1
8	5580	18	7.8	396	1
9	5580	16	6	416	1
10	5580	16	6.8	215	1
11	5580	18	7.7	206	1
12	5580	16	7.5	398	1
13	5580	16	8.4	462	1
14	5580	18	9.8	481	1
15	5580	17	7.1	313	1
16	5580	17	10	388	1
17	5580	17	8.6	456	1
18	5580	16	6.3	500	0
19	5580	17	8.5	358	1
20	5580	16	6.2	468	1
21	5580	17	9.4	333	1
22	5580	18	7.2	468	1
23	5580	18	9.5	333	1
24	5580	17	8.7	276	1
25	5580	17	8.8	452	1
26	5580	18	6.1	434	1
27	5580	16	8.6	303	1
28	5580	16	9.3	204	1
29	5580	18	6.3	334	1
30	5580	17	8	266	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	5580	12	11.7	305	1
2	5580	12	15.9	295	1
3	5580	12	15.9	460	1
4	5580	15	19.2	264	1
5	5580	12	12.8	487	1
6	5580	12	19.8	366	1
7	5580	16	17.3	325	1
8	5580	14	15.3	226	1
9	5580	16	15.3	397	1
10	5580	15	14.7	352	1
11	5580	14	17.1	363	1
12	5580	15	13.3	202	1
13	5580	14	13.2	278	1
14	5580	12	19.9	496	1
15	5580	14	13.2	263	1
16	5580	16	20	384	1
17	5580	15	17	326	1
18	5580	15	13	367	1
19	5580	14	12.5	481	1
20	5580	14	19.7	333	1
21	5580	12	12.4	472	1
22	5580	15	19.4	223	1
23	5580	16	11.9	389	1
24	5580	15	12.7	315	1
25	5580	12	11.3	328	1
26	5580	16	11.6	499	1
27	5580	13	15.9	465	1
28	5580	13	19.3	335	1
29	5580	12	15.8	280	1
30	5580	14	15.9	283	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	71.7	1226		0.491974	1
1	2	15	72.3	1890		2.430229	
2	2	6	99	1750		2.89658	
3	1	20	67			5.100805	
4	2	17	59.5	1552		6.483417	
5	2	15	54	1899		6.997336	
6	3	12	97.7	1150	1072	8.37656	
7	2	8	69.2	1837		9.71907	
8	1	18	98.4			11.150255	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	58.4	1281	1611	0.968395	1
1	2	19	82.1	1416		1.046174	
2	1	16	79.6			2.802954	
3	3	7	81	1814	1041	3.919168	
4	3	12	57.8	1345	1479	4.075604	
5	3	12	59.5	1529	1367	5.248154	
6	2	6	72.4	1030		6.006285	
7	2	7	91.9	1266		7.681801	
8	2	12	80.1	1789		8.811496	
9	3	8	54	1719	1788	9.659064	
10	2	7	53.5	1499		10.849152	
11	3	11	72.8	1861	1803	11.282691	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	61.9	1790		0.096169	1
1	3	10	62.7	1128	1976	1.347121	
2	1	16	51.5			2.038302	
3	1	16	88.8			2.770702	
4	2	6	51.4	1306		3.943372	
5	2	7	85.3	1694		4.477567	
6	1	16	83.5			5.841746	
7	3	17	88.4	1211	1816	6.710764	
8	1	20	86.8			6.884992	
9	1	16	77.7			7.828697	
10	2	15	99.9	1694		9.315292	
11	2	16	91.6	1531		10.171194	
12	2	15	58	1192		10.930891	
13	1	18	81			11.902224	

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	6	55			0.373385	1
1	1	20	65			1.58768	
2	3	14	98.1	1411	1496	1.862533	
3	2	19	57.1	1100		2.766589	
4	2	14	96.5	1521		3.855367	
5	3	6	91	1141	1669	4.183789	
6	2	12	52	1333		5.081218	
7	3	9	52.2	1132	1879	5.832815	
8	2	18	69.1	1489		7.117635	
9	2	16	70.2	1369		7.975081	
10	3	11	90.2	1887	1390	8.373658	
11	2	15	86.9	1252		9.38051	
12	2	17	54.2	1056		10.323472	
13	3	13	93.9	1354	1117	11.058276	
14	3	17	66	1119	1317	11.486562	

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	5	65.1	1295		0.402705	1
1	3	16	56.2	1577	1352	1.92469	
2	3	12	65	1577	1289	2.231246	
3	2	17	54.4	1674		3.958581	
4	3	19	87.1	1933	1474	5.17922	
5	2	17	71.3	1046		5.895966	
6	1	9	92.2			7.609358	
7	3	15	79.9	1826	1911	8.682475	
8	1	13	78.8			8.766369	
9	2	11	63.6	1745		9.943216	
10	1	8	59.7			11.985805	

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	14	77.2	1579		0.67844	1
1	2	5	83.9	1910		1.622548	
2	2	14	63.5	1054		2.336831	
3	2	7	88.1	1541		2.828569	
4	2	10	64.7	1084		4.290576	
5	3	8	79.6	1134	1691	5.298884	
6	3	7	54.6	1478	1106	6.180547	
7	2	12	77.9	1926		6.958083	
8	1	20	99.8			7.789401	
9	2	19	74.9	1388		8.706004	
10	1	19	79.3			9.75572	
11	2	16	65	1018		10.910407	
12	3	20	51.2	1732	1710	11.868007	

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	19	90.1	1711		0.471674	1
1	1	7	96.7			0.795972	
2	2	14	62.1	1565		1.505471	
3	1	12	94.8			2.569165	
4	2	7	69.4	1930		2.796427	
5	2	16	54	1414		3.715713	
6	2	7	82.5	1189		4.255527	
7	3	15	61.8	1468	1224	5.093684	
8	3	17	97.9	1104	1825	5.80259	
9	1	17	96.5			6.341266	
10	2	9	80.3	1076		7.048803	
11	2	12	67.3	1843		7.428385	
12	1	6	81.1			8.02217	
13	2	19	56.5	1215		9.159803	
14	1	10	61.1			9.410742	
15	3	11	63.8	1351	1097	10.292436	
16	3	9	93.2	1731	1914	11.078393	
17	3	12	81.1	1953	1150	11.431062	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	91.9	1823		0.021305	1
1	3	8	68.8	1734	1776	2.610924	
2	2	10	50.5	1628		3.482094	
3	3	10	100	1682	1184	5.289574	
4	2	15	94.1	1921		5.887277	
5	1	5	57.6			7.503956	
6	2	12	96.5	1300		8.902638	
7	2	14	99.1	1369		10.070675	
8	2	11	74.4	1570		10.854148	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	64.6	1236	1721	0.861412	1
1	2	9	52.5	1789		1.660489	
2	3	5	76.6	1728	1747	2.459944	
3	1	7	84.3			3.529897	
4	3	13	76.8	1280	1660	3.768369	
5	1	6	74.6			5.07976	
6	3	16	86.5	1999	1203	5.754959	
7	2	19	54.8	1763		6.505428	
8	2	12	59.3	1152		7.923023	
9	1	13	50.1			8.921169	
10	2	17	50.6	1511		9.91559	
11	3	17	79.1	1658	1267	10.757707	
12	1	19	76.2			11.917084	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	67.8	1696		0.312987	1
1	3	6	57	1608	1592	1.328209	
2	2	16	99.3	1861		1.932157	
3	1	11	95.8			2.230925	
4	1	13	51.1			3.128464	
5	1	11	85.2			4.132366	
6	1	16	75.7			4.802516	
7	1	13	63.5			5.167996	
8	3	12	84.5	1657	1850	5.834823	
9	3	13	91.8	1568	1190	6.997108	
10	1	12	66.7			7.481174	
11	2	7	92	1332		8.27809	
12	2	16	66.5	1549		8.563589	
13	2	20	75	1834		9.53756	
14	3	17	93	1353	1246	10.500264	
15	3	18	65	1017	1080	10.866001	
16	3	18	76.5	1540	1920	11.987082	

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	16	66.4	1821		0.047573	1
1	1	8	63.4			1.254775	
2	3	11	93.5	1832	1424	2.274874	
3	2	6	96.1	1717		3.356872	
4	3	19	59.4	1861	1376	3.512892	
5	1	14	85.9			4.867341	
6	2	11	99.8	1542		5.953124	
7	2	11	96.1	1289		6.358888	
8	1	18	80.9			7.214801	
9	1	10	77.8			8.142167	
10	2	5	82.9	1933		8.711707	
11	2	13	65.2	1575		10.188385	
12	2	12	65.1	1404		11.122053	
13	2	8	77	1877		11.263424	

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	20	94.5	1074	1497	0.471187	1
1	3	14	62.8	1789	1058	1.737255	
2	1	7	92.8			3.255605	
3	2	20	97.1	1014		5.170092	
4	2	20	93.5	1641		7.438691	
5	2	18	99.5	1586		8.825998	
6	3	5	93.2	1811	1044	9.70376	
7	2	18	61	1843		11.138886	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	64.3			0.606685	1
1	2	15	54.8	1290		1.777554	
2	3	17	61.6	1843	1780	2.873717	
3	3	10	66.3	1647	1252	3.539359	
4	1	9	67.4			4.327973	
5	3	15	64.3	1779	1671	5.374659	
6	3	18	57.4	1288	1984	6.519597	
7	2	13	62.5	1741		7.285139	
8	3	5	53.4	1576	1893	8.561923	
9	1	13	59.5			9.386138	
10	2	7	87.2	1473		10.919079	
11	2	7	80.9	1313		11.254329	

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	14	73.9			0.656123	1
1	2	17	71.9	1268		2.788523	
2	3	18	58.2	1493	1819	3.994633	
3	2	7	87.1	1772		5.726628	
4	2	5	57.9	1864		6.456712	
5	2	11	74.7	1525		8.430814	
6	2	15	63	1791		9.346596	
7	2	18	86.5	1597		10.856843	

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	17	65.3	1042		0.57502	1
1	2	6	90.1	1595		1.178323	
2	2	14	70.1	1537		1.904596	
3	2	11	92.8	1019		2.217961	
4	1	19	81.6			2.944889	
5	2	8	70.1	1745		3.553736	
6	2	8	51.7	1078		4.756858	
7	3	17	77	1071	1165	5.543015	
8	3	7	75.9	1204	1575	6.331359	
9	3	18	89.6	1822	1258	6.538765	
10	1	9	69.1			7.488343	
11	2	9	72.5	1075		7.869192	
12	3	10	73.6	1357	1514	8.8346	
13	3	19	66.1	1494	1340	9.711669	
14	1	12	65			10.48744	
15	3	15	90.6	1944	1865	10.817243	
16	2	12	65.4	1515		11.425037	

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	14	53.8	1963	1903	0.652904	1
1	1	7	74.6			1.725784	
2	3	16	97.9	1954	1233	2.004406	
3	2	9	57.8	1040		3.515726	
4	3	6	68.5	1050	1995	4.30029	
5	1	6	71			5.740626	
6	1	10	62.8			6.432132	
7	2	14	83.2	1749		7.342314	
8	1	6	90.7			8.874079	
9	2	12	86.2	1171		9.030891	
10	1	8	59.2			10.229093	
11	1	17	96.2			11.43713	

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	20	79.2	1534		0.30281	1
1	3	17	62.3	1444	1119	1.299292	
2	1	18	77.2			1.564138	
3	2	10	83.3	1976		2.150494	
4	2	15	67.3	1378		2.98495	
5	3	6	55.3	1276	1847	3.862294	
6	3	17	51.1	1283	1130	4.642567	
7	1	9	68.3			4.676788	
8	2	17	54.4	1201		5.441539	
9	2	13	60.5	1933		6.628556	
10	2	15	79.9	1178		6.91587	
11	3	6	90	1099	1018	7.351644	
12	3	15	83.3	1550	1247	8.374122	
13	2	19	77.8	1873		8.894949	
14	2	12	90.1	1717		9.857694	
15	3	5	84.6	1926	1840	10.084076	
16	2	5	95.2	1731		10.712864	
17	1	13	71.6			11.338409	

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	14	89	1255	1575	0.413053	1
1	2	9	69.9	1880		2.435663	
2	2	19	69.1	1899		4.158675	
3	3	19	84.9	1027	1135	4.667056	
4	3	17	63.4	1556	1154	6.643596	
5	2	16	97.5	1041		8.969274	
6	3	11	74.6	1262	1432	9.886913	
7	1	6	84.3			10.625179	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	20	85.4	1507	1203	0.870643	1
1	2	19	66.1	1108		1.83662	
2	2	16	97.6	1929		2.441479	
3	1	19	61.9			3.714446	
4	3	17	78.6	1619	1556	4.637874	
5	1	8	61.8			6.385686	
6	2	13	77.2	1231		6.616213	
7	1	10	77.8			7.724267	
8	2	6	94.6	1382		8.99566	
9	2	19	85.3	1160		10.08968	
10	3	11	88.5	1256	1688	11.288657	

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	88.4	1760		0.967607	1
1	3	7	67	1170	1485	1.281504	
2	1	17	83.9			2.555456	
3	2	15	84.3	1148		3.857487	
4	1	10	83.9			4.203522	
5	2	6	67.6	1243		5.318385	
6	2	11	99	1879		6.736963	
7	2	11	94.1	1217		7.976946	
8	3	16	75.1	1293	1711	8.259776	
9	2	8	98.8	1299		9.750388	
10	3	11	82.9	1404	1250	10.553212	
11	2	11	72.3	1183		11.705585	

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	11	69.1	1238	1012	0.367239	1
1	3	19	72	1917	1332	1.684674	
2	2	16	96.7	1151		1.929916	
3	1	12	57.4			3.307644	
4	2	19	71	1427		3.653671	
5	1	13	96.3			4.784275	
6	2	20	88.7	1631		5.348748	
7	2	18	57.5	1272		6.225786	
8	2	13	81.9	1313		7.422769	
9	2	9	74	1476		7.955913	
10	3	18	90.6	1774	1934	8.710201	
11	1	10	90.9			10.236264	
12	3	16	98	1659	1141	10.593867	
13	1	15	61.5			11.871423	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	59.3	1196		0.014943	1
1	3	7	89.5	1187	1285	1.27293	
2	1	12	74.2			1.779831	
3	2	17	70.3	1545		3.137575	
4	3	10	55.9	1923	1984	3.688034	
5	3	7	76.8	1582	1922	4.654073	
6	2	17	78.4	1015		5.147238	
7	1	16	71.6			6.004758	
8	3	6	73.2	1120	1779	6.590789	
9	3	9	67	1347	1888	7.269913	
10	2	13	79.4	1125		8.086563	
11	3	12	97.2	1269	1246	9.212899	
12	2	20	60.5	1571		10.111685	
13	2	14	88.2	1766		10.648218	
14	1	18	53.8			11.536378	

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	16	65.9	1713		0.67401	1
1	1	17	92.1			1.950056	
2	2	7	55.3	1744		2.343689	
3	2	9	87.3	1048		3.9513	
4	1	6	66.1			4.8243	
5	3	13	78.6	1554	1278	5.299495	
6	1	15	93.2			6.598255	
7	2	16	74.7	1154		7.001171	
8	2	19	64.7	1082		8.546143	
9	1	11	55.6			9.933622	
10	1	14	52.5			10.271558	
11	1	6	62.9			11.971405	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	51.1	1301	1630	0.018822	1
1	3	17	68	1199	1071	0.859568	
2	2	19	71.6	1033		1.476628	
3	2	5	89.5	1211		2.005568	
4	2	16	93.2	1794		2.772402	
5	1	10	59			3.37773	
6	3	13	80.8	1775	1978	4.582306	
7	2	18	72.6	1455		5.19262	
8	2	7	84.4	1026		5.922807	
9	1	12	55.4			6.557284	
10	2	12	81	1543		6.823072	
11	2	14	80.5	1784		7.385495	
12	2	8	56.7	1923		8.462479	
13	2	18	71.2	1285		8.900601	
14	3	16	72.2	1878	1600	9.437407	
15	3	11	84.2	1850	1167	10.174546	
16	2	6	62.8	1986		10.937845	
17	2	8	69.7	1445		11.353233	

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	20	73.9	1320	1186	0.386547	1
1	3	15	59.3	1528	1848	0.774741	
2	3	10	78.2	1696	1922	1.720573	
3	2	7	61.7	1601		2.067093	
4	2	17	74.3	1486		2.682168	
5	1	6	82.9			3.966586	
6	1	7	74.3			4.008321	
7	2	20	72.7	1937		5.086696	
8	2	10	65.7	1301		5.896398	
9	1	19	59.3			6.597207	
10	1	10	72.5			7.274112	
11	2	12	89.2	1745		7.407502	
12	3	18	71	1311	1859	8.114251	
13	2	7	51.1	1450		9.161401	
14	2	9	55.6	1370		9.446836	
15	2	17	73.4	1542		10.082185	
16	1	11	52.4			10.916383	
17	3	8	58.1	1844	1967	11.590062	

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	13	87.5	1246		0.195553	1
1	2	16	58.1	1253		1.075278	
2	2	13	92.5	1628		2.070147	
3	1	17	64.4			2.416713	
4	3	17	56.1	1071	1866	3.118335	
5	2	16	84.3	1272		3.9344	
6	3	18	85	1237	1954	4.436322	
7	1	12	71.2			5.473087	
8	2	15	56.7	1756		6.238944	
9	2	12	90.2	1239		6.98492	
10	2	16	53.6	1169		7.758042	
11	2	8	83.5	1401		8.135372	
12	3	14	89.7	1280	1360	9.017542	
13	3	7	78.7	1723	1930	9.355169	
14	1	5	99.3			10.298485	
15	1	11	90.1			11.131155	
16	3	16	87.4	1281	1157	11.45535	

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	19	80.2	1099		0.617311	1
1	2	18	60	1160		1.628468	
2	2	12	53	1207		3.322794	
3	2	12	89.2	1518		5.088406	
4	3	10	75.6	1158	1128	6.347491	
5	2	17	70.6	1489		7.545615	
6	1	19	96.8			9.555193	
7	1	7	80.4			11.447642	

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	9	71.9	1590		0.611903	1
1	2	6	62.8	1386		1.206465	
2	3	11	98.9	1476	1479	1.523026	
3	2	14	60	1190		2.424548	
4	2	10	55.9	1675		2.695267	
5	3	18	56.8	1191	1758	3.509645	
6	2	9	73.6	1618		3.894892	
7	3	14	93.5	1259	1074	4.777479	
8	2	17	57.8	1649		5.535048	
9	2	14	86.8	1514		6.293752	
10	3	18	77.5	1382	1420	6.815425	
11	1	19	91.3			7.373012	
12	1	6	94.8			8.0699	
13	2	13	75	1066		8.43129	
14	3	18	83.4	1058	1768	9.4536	
15	1	11	58			9.79784	
16	2	6	69.6	1753		10.213397	
17	3	12	82.6	1758	1100	11.182955	
18	2	16	52.7	1513		11.840593	

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	10	85.3			0.175624	1
1	2	10	61.3	1669		1.326013	
2	1	10	98.4			1.963556	
3	3	10	67.2	1357	1629	3.24365	
4	1	5	64.9			4.012574	
5	2	19	80.3	1730		5.340472	
6	2	10	91.2	1642		6.341799	
7	2	9	65.5	1249		7.081058	
8	2	6	73	1081		7.633168	
9	2	9	89.5	1420		8.790281	
10	3	20	68.8	1984	1439	9.400221	
11	2	16	67	1169		10.656332	
12	1	9	68.9			11.536065	

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	77.9	1609		0.635182	1
1	1	12	82			0.830716	
2	2	9	53.6	1156		2.190689	
3	2	10	72.1	1199		2.930189	
4	2	11	71.4	1183		3.89171	
5	2	10	51.9	1734		4.152008	
6	1	19	50.3			5.224413	
7	2	7	55.1	1692		5.754222	
8	1	8	70.1			6.993079	
9	2	9	81.1	1540		7.957195	
10	1	10	51.4			8.370167	
11	2	11	58.8	1150		9.501589	
12	2	8	78.1	1062		9.716468	
13	2	9	92.2	1731		10.633308	
14	3	8	74.4	1665	1235	11.379835	

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	5562.0, 5436.0, 5631.0, 5266.0, 5676.0, 5400.0, 5479.0, 5653.0, 5389.0, 5531.0, 5706.0, 5250.0, 5723.0, 5297.0, 5287.0, 5268.0, 5613.0, 5544.0, 5424.0, 5517.0, 5516.0, 5699.0, 5501.0, 5681.0, 5680.0, 5338.0, 5519.0, 5264.0, 5379.0, 5553.0, 5662.0, 5339.0, 5372.0, 5666.0, 5532.0, 5508.0, 5713.0, 5571.0, 5491.0, 5547.0, 5610.0, 5420.0, 5451.0, 5528.0, 5644.0, 5427.0, 5497.0, 5512.0, 5470.0, 5288.0, 5520.0, 5607.0, 5633.0, 5303.0, 5291.0, 5603.0, 5351.0, 5552.0, 5263.0, 5442.0, 5606.0, 5317.0, 5352.0, 5356.0, 5673.0, 5444.0, 5667.0, 5393.0, 5323.0, 5689.0, 5426.0, 5375.0, 5712.0, 5468.0, 5392.0, 5615.0, 5617.0, 5258.0, 5277.0, 5459.0, 5253.0, 5650.0, 5411.0, 5275.0, 5575.0, 5416.0, 5329.0, 5573.0, 5679.0, 5535.0, 5337.0, 5254.0, 5541.0, 5700.0, 5625.0, 5346.0, 5687.0, 5462.0, 5390.0, 5418.0 (number of hits: 5)
2	5550	9	1	333	1	5301.0, 5694.0, 5427.0, 5553.0, 5256.0, 5453.0, 5467.0, 5488.0, 5673.0, 5426.0, 5708.0, 5278.0, 5356.0, 5395.0, 5658.0, 5716.0, 5255.0, 5396.0, 5414.0, 5337.0, 5280.0, 5724.0, 5287.0, 5677.0, 5581.0, 5281.0, 5408.0, 5623.0, 5517.0, 5351.0, 5540.0, 5713.0, 5309.0, 5530.0, 5508.0, 5698.0, 5518.0, 5346.0, 5262.0, 5588.0, 5675.0, 5339.0, 5382.0, 5527.0, 5546.0, 5392.0, 5409.0, 5489.0, 5482.0, 5468.0, 5497.0, 5539.0, 5473.0, 5704.0, 5569.0, 5340.0, 5264.0, 5549.0, 5419.0, 5578.0, 5678.0, 5294.0, 5333.0, 5452.0, 5573.0, 5595.0, 5513.0, 5492.0, 5669.0, 5321.0, 5330.0, 5661.0, 5690.0, 5697.0, 5431.0, 5394.0, 5389.0, 5582.0, 5687.0, 5442.0, 5441.0, 5551.0, 5722.0, 5568.0, 5721.0, 5258.0, 5375.0, 5605.0, 5606.0, 5384.0, 5405.0, 5319.0, 5355.0, 5491.0, 5715.0, 5556.0, 5720.0, 5594.0, 5373.0, 5292.0 (number of hits: 5)
3	5550	9	1	333	1	5593.0, 5673.0, 5409.0, 5388.0, 5274.0, 5688.0, 5322.0, 5539.0, 5674.0, 5359.0, 5635.0, 5578.0, 5659.0, 5482.0, 5568.0, 5470.0, 5406.0, 5705.0, 5472.0, 5722.0, 5362.0, 5511.0, 5559.0, 5390.0, 5331.0, 5571.0, 5453.0, 5427.0, 5452.0, 5381.0, 5374.0, 5437.0, 5658.0, 5444.0, 5411.0, 5704.0, 5481.0, 5417.0, 5300.0, 5541.0, 5442.0, 5540.0, 5486.0, 5584.0, 5479.0,

						5554.0, 5383.0, 5475.0, 5595.0, 5310.0, 5321.0, 5624.0, 5684.0, 5695.0, 5276.0, 5716.0, 5672.0, 5601.0, 5413.0, 5273.0, 5590.0, 5690.0, 5691.0, 5552.0, 5336.0, 5555.0, 5267.0, 5447.0, 5678.0, 5531.0, 5515.0, 5416.0, 5623.0, 5629.0, 5561.0, 5588.0, 5340.0, 5275.0, 5317.0, 5378.0, 5689.0, 5369.0, 5467.0, 5436.0, 5532.0, 5309.0, 5617.0, 5393.0, 5625.0, 5547.0, 5366.0, 5655.0, 5297.0, 5671.0, 5648.0, 5483.0, 5364.0, 5320.0, 5698.0, 5611.0 (number of hits: 4)
4	5550	9	1	333	1	5418.0, 5668.0, 5646.0, 5302.0, 5614.0, 5592.0, 5389.0, 5694.0, 5465.0, 5354.0, 5488.0, 5357.0, 5269.0, 5524.0, 5529.0, 5639.0, 5332.0, 5518.0, 5501.0, 5645.0, 5609.0, 5570.0, 5623.0, 5674.0, 5682.0, 5310.0, 5277.0, 5451.0, 5553.0, 5372.0, 5506.0, 5303.0, 5658.0, 5414.0, 5695.0, 5462.0, 5428.0, 5391.0, 5467.0, 5450.0, 5679.0, 5551.0, 5300.0, 5416.0, 5385.0, 5338.0, 5363.0, 5297.0, 5565.0, 5653.0, 5322.0, 5415.0, 5421.0, 5261.0, 5362.0, 5680.0, 5466.0, 5424.0, 5348.0, 5487.0, 5624.0, 5598.0, 5438.0, 5604.0, 5678.0, 5687.0, 5612.0, 5620.0, 5489.0, 5273.0, 5378.0, 5629.0, 5328.0, 5334.0, 5447.0, 5599.0, 5336.0, 5630.0, 5627.0, 5448.0, 5589.0, 5545.0, 5636.0, 5463.0, 5503.0, 5571.0, 5567.0, 5542.0, 5453.0, 5523.0, 5399.0, 5392.0, 5637.0, 5259.0, 5276.0, 5591.0, 5720.0, 5588.0, 5644.0, 5596.0 (number of hits: 5)
5	5550	9	1	333	1	5387.0, 5360.0, 5447.0, 5335.0, 5669.0, 5462.0, 5385.0, 5568.0, 5701.0, 5540.0, 5294.0, 5461.0, 5596.0, 5646.0, 5493.0, 5341.0, 5534.0, 5679.0, 5617.0, 5499.0, 5317.0, 5600.0, 5675.0, 5283.0, 5563.0, 5443.0, 5368.0, 5525.0, 5310.0, 5546.0, 5457.0, 5441.0, 5398.0, 5705.0, 5545.0, 5538.0, 5645.0, 5342.0, 5276.0, 5533.0, 5625.0, 5430.0, 5312.0, 5628.0, 5555.0, 5413.0, 5266.0, 5612.0, 5695.0, 5481.0, 5286.0, 5470.0, 5486.0, 5331.0, 5456.0, 5367.0, 5673.0, 5256.0, 5627.0, 5295.0, 5275.0, 5254.0, 5421.0, 5581.0, 5280.0, 5504.0, 5639.0, 5315.0, 5655.0, 5537.0, 5549.0, 5380.0, 5680.0, 5327.0, 5634.0, 5393.0, 5483.0, 5320.0, 5395.0, 5311.0, 5631.0, 5251.0, 5587.0, 5455.0, 5390.0, 5711.0, 5259.0, 5478.0, 5595.0, 5530.0, 5543.0, 5388.0, 5437.0, 5554.0, 5714.0, 5512.0, 5362.0, 5723.0, 5435.0, 5712.0 (number of hits: 6)
6	5550	9	1	333	1	5559.0, 5335.0, 5426.0, 5635.0, 5307.0, 5644.0, 5395.0, 5544.0, 5354.0, 5317.0,

						5250.0, 5538.0, 5508.0, 5277.0, 5660.0, 5294.0, 5357.0, 5470.0, 5487.0, 5721.0, 5524.0, 5457.0, 5461.0, 5598.0, 5263.0, 5507.0, 5270.0, 5430.0, 5705.0, 5708.0, 5264.0, 5714.0, 5261.0, 5586.0, 5292.0, 5328.0, 5584.0, 5542.0, 5490.0, 5311.0, 5298.0, 5641.0, 5534.0, 5701.0, 5536.0, 5609.0, 5580.0, 5561.0, 5636.0, 5285.0, 5265.0, 5671.0, 5589.0, 5710.0, 5296.0, 5351.0, 5323.0, 5562.0, 5473.0, 5639.0, 5720.0, 5476.0, 5529.0, 5391.0, 5593.0, 5516.0, 5523.0, 5318.0, 5689.0, 5573.0, 5275.0, 5607.0, 5515.0, 5333.0, 5255.0, 5438.0, 5316.0, 5521.0, 5491.0, 5517.0, 5591.0, 5590.0, 5338.0, 5494.0, 5352.0, 5464.0, 5381.0, 5435.0, 5496.0, 5614.0, 5597.0, 5682.0, 5465.0, 5454.0, 5412.0, 5467.0, 5477.0, 5498.0, 5605.0, 5626.0 (number of hits: 7)
7	5550	9	1	333	1	5676.0, 5436.0, 5652.0, 5376.0, 5662.0, 5494.0, 5321.0, 5675.0, 5723.0, 5513.0, 5377.0, 5600.0, 5538.0, 5270.0, 5406.0, 5390.0, 5445.0, 5720.0, 5686.0, 5523.0, 5524.0, 5535.0, 5374.0, 5506.0, 5295.0, 5640.0, 5597.0, 5389.0, 5417.0, 5363.0, 5602.0, 5435.0, 5499.0, 5596.0, 5364.0, 5375.0, 5300.0, 5392.0, 5470.0, 5415.0, 5496.0, 5324.0, 5565.0, 5606.0, 5421.0, 5481.0, 5265.0, 5623.0, 5455.0, 5380.0, 5618.0, 5530.0, 5261.0, 5342.0, 5412.0, 5576.0, 5285.0, 5266.0, 5582.0, 5589.0, 5260.0, 5611.0, 5512.0, 5291.0, 5336.0, 5529.0, 5657.0, 5303.0, 5456.0, 5581.0, 5636.0, 5316.0, 5570.0, 5622.0, 5318.0, 5629.0, 5579.0, 5457.0, 5677.0, 5463.0, 5349.0, 5358.0, 5703.0, 5408.0, 5678.0, 5661.0, 5644.0, 5610.0, 5645.0, 5503.0, 5654.0, 5502.0, 5649.0, 5311.0, 5345.0, 5537.0, 5648.0, 5271.0, 5709.0, 5394.0 (number of hits: 6)
8	5550	9	1	333	1	5592.0, 5489.0, 5636.0, 5581.0, 5701.0, 5608.0, 5491.0, 5258.0, 5546.0, 5545.0, 5691.0, 5315.0, 5573.0, 5433.0, 5362.0, 5696.0, 5566.0, 5513.0, 5393.0, 5255.0, 5338.0, 5386.0, 5287.0, 5561.0, 5456.0, 5601.0, 5350.0, 5297.0, 5261.0, 5394.0, 5554.0, 5569.0, 5547.0, 5500.0, 5632.0, 5617.0, 5412.0, 5391.0, 5345.0, 5490.0, 5270.0, 5605.0, 5604.0, 5455.0, 5453.0, 5551.0, 5290.0, 5648.0, 5562.0, 5539.0, 5647.0, 5644.0, 5425.0, 5283.0, 5281.0, 5564.0, 5416.0, 5563.0, 5317.0, 5607.0, 5680.0, 5493.0, 5275.0, 5333.0, 5575.0, 5328.0, 5451.0, 5475.0, 5319.0, 5415.0, 5314.0, 5684.0, 5583.0, 5458.0, 5260.0, 5285.0, 5341.0, 5714.0, 5620.0, 5610.0,

						5590.0, 5373.0, 5694.0, 5420.0, 5371.0, 5367.0, 5473.0, 5289.0, 5682.0, 5382.0, 5639.0, 5642.0, 5650.0, 5669.0, 5649.0, 5576.0, 5591.0, 5402.0, 5424.0, 5711.0 (number of hits: 6)
9	5550	9	1	333	1	5644.0, 5682.0, 5487.0, 5530.0, 5342.0, 5592.0, 5251.0, 5442.0, 5397.0, 5536.0, 5508.0, 5288.0, 5448.0, 5564.0, 5489.0, 5318.0, 5483.0, 5522.0, 5698.0, 5258.0, 5550.0, 5290.0, 5593.0, 5678.0, 5401.0, 5437.0, 5465.0, 5625.0, 5646.0, 5710.0, 5298.0, 5311.0, 5454.0, 5436.0, 5310.0, 5681.0, 5675.0, 5557.0, 5493.0, 5686.0, 5423.0, 5356.0, 5668.0, 5547.0, 5428.0, 5271.0, 5371.0, 5361.0, 5588.0, 5352.0, 5409.0, 5291.0, 5617.0, 5444.0, 5412.0, 5377.0, 5640.0, 5504.0, 5307.0, 5613.0, 5582.0, 5632.0, 5415.0, 5317.0, 5638.0, 5549.0, 5268.0, 5574.0, 5618.0, 5253.0, 5717.0, 5390.0, 5691.0, 5321.0, 5287.0, 5529.0, 5671.0, 5562.0, 5694.0, 5374.0, 5688.0, 5282.0, 5517.0, 5591.0, 5538.0, 5602.0, 5452.0, 5648.0, 5320.0, 5297.0, 5408.0, 5611.0, 5684.0, 5656.0, 5575.0, 5526.0, 5410.0, 5471.0, 5658.0, 5667.0 (number of hits: 9)
10	5550	9	1	333	1	5445.0, 5577.0, 5607.0, 5407.0, 5293.0, 5611.0, 5306.0, 5689.0, 5626.0, 5551.0, 5565.0, 5533.0, 5506.0, 5667.0, 5696.0, 5710.0, 5384.0, 5707.0, 5610.0, 5294.0, 5630.0, 5552.0, 5373.0, 5487.0, 5387.0, 5457.0, 5415.0, 5397.0, 5705.0, 5351.0, 5666.0, 5295.0, 5721.0, 5502.0, 5335.0, 5476.0, 5414.0, 5347.0, 5472.0, 5711.0, 5256.0, 5524.0, 5549.0, 5617.0, 5490.0, 5695.0, 5314.0, 5592.0, 5598.0, 5536.0, 5639.0, 5420.0, 5385.0, 5319.0, 5313.0, 5653.0, 5483.0, 5262.0, 5698.0, 5685.0, 5538.0, 5311.0, 5433.0, 5559.0, 5573.0, 5676.0, 5683.0, 5488.0, 5622.0, 5628.0, 5281.0, 5604.0, 5374.0, 5588.0, 5479.0, 5544.0, 5428.0, 5404.0, 5699.0, 5591.0, 5353.0, 5692.0, 5522.0, 5648.0, 5605.0, 5328.0, 5572.0, 5703.0, 5350.0, 5453.0, 5456.0, 5723.0, 5277.0, 5531.0, 5652.0, 5409.0, 5254.0, 5512.0, 5720.0, 5535.0 (number of hits: 7)
11	5550	9	1	333	1	5711.0, 5267.0, 5681.0, 5592.0, 5381.0, 5536.0, 5345.0, 5632.0, 5612.0, 5636.0, 5376.0, 5459.0, 5622.0, 5495.0, 5301.0, 5292.0, 5356.0, 5284.0, 5512.0, 5704.0, 5385.0, 5553.0, 5404.0, 5531.0, 5608.0, 5515.0, 5280.0, 5659.0, 5354.0, 5715.0, 5365.0, 5437.0, 5433.0, 5524.0, 5523.0, 5343.0, 5453.0, 5333.0, 5598.0, 5450.0, 5436.0, 5700.0, 5308.0, 5530.0, 5551.0,

						5487.0, 5621.0, 5360.0, 5540.0, 5720.0, 5476.0, 5309.0, 5698.0, 5456.0, 5482.0, 5260.0, 5432.0, 5255.0, 5511.0, 5539.0, 5581.0, 5655.0, 5412.0, 5383.0, 5633.0, 5429.0, 5274.0, 5721.0, 5346.0, 5322.0, 5339.0, 5627.0, 5291.0, 5526.0, 5449.0, 5394.0, 5639.0, 5559.0, 5649.0, 5499.0, 5466.0, 5253.0, 5382.0, 5625.0, 5619.0, 5491.0, 5266.0, 5666.0, 5571.0, 5347.0, 5467.0, 5603.0, 5686.0, 5589.0, 5570.0, 5461.0, 5327.0, 5620.0, 5660.0, 5307.0 (number of hits: 6)
12	5550	9	1	333	1	5366.0, 5721.0, 5651.0, 5535.0, 5502.0, 5507.0, 5396.0, 5705.0, 5349.0, 5509.0, 5324.0, 5645.0, 5607.0, 5684.0, 5308.0, 5436.0, 5493.0, 5634.0, 5480.0, 5265.0, 5322.0, 5548.0, 5487.0, 5580.0, 5669.0, 5632.0, 5546.0, 5558.0, 5523.0, 5403.0, 5563.0, 5325.0, 5559.0, 5611.0, 5640.0, 5301.0, 5318.0, 5277.0, 5575.0, 5410.0, 5284.0, 5657.0, 5444.0, 5345.0, 5262.0, 5618.0, 5296.0, 5652.0, 5373.0, 5528.0, 5293.0, 5667.0, 5460.0, 5662.0, 5653.0, 5512.0, 5416.0, 5270.0, 5658.0, 5488.0, 5343.0, 5562.0, 5515.0, 5717.0, 5302.0, 5591.0, 5300.0, 5670.0, 5714.0, 5628.0, 5540.0, 5495.0, 5610.0, 5621.0, 5319.0, 5639.0, 5380.0, 5390.0, 5461.0, 5644.0, 5674.0, 5544.0, 5327.0, 5574.0, 5295.0, 5421.0, 5383.0, 5282.0, 5537.0, 5417.0, 5614.0, 5255.0, 5517.0, 5533.0, 5498.0, 5679.0, 5446.0, 5449.0, 5285.0, 5256.0 (number of hits: 8)
13	5550	9	1	333	1	5595.0, 5590.0, 5400.0, 5493.0, 5346.0, 5487.0, 5634.0, 5554.0, 5501.0, 5296.0, 5419.0, 5646.0, 5490.0, 5492.0, 5604.0, 5720.0, 5405.0, 5311.0, 5660.0, 5345.0, 5282.0, 5421.0, 5669.0, 5451.0, 5575.0, 5544.0, 5358.0, 5481.0, 5641.0, 5703.0, 5266.0, 5337.0, 5624.0, 5431.0, 5622.0, 5610.0, 5314.0, 5264.0, 5519.0, 5359.0, 5485.0, 5276.0, 5306.0, 5536.0, 5422.0, 5619.0, 5537.0, 5499.0, 5719.0, 5265.0, 5674.0, 5692.0, 5520.0, 5373.0, 5511.0, 5529.0, 5428.0, 5379.0, 5440.0, 5603.0, 5455.0, 5255.0, 5684.0, 5628.0, 5338.0, 5530.0, 5630.0, 5325.0, 5253.0, 5552.0, 5454.0, 5376.0, 5368.0, 5602.0, 5288.0, 5648.0, 5392.0, 5563.0, 5433.0, 5596.0, 5522.0, 5653.0, 5538.0, 5566.0, 5477.0, 5480.0, 5616.0, 5533.0, 5453.0, 5328.0, 5273.0, 5523.0, 5344.0, 5617.0, 5543.0, 5383.0, 5701.0, 5632.0, 5465.0, 5504.0 (number of hits: 5)
14	5550	9	1	333	1	5640.0, 5418.0, 5451.0, 5392.0, 5447.0, 5548.0, 5425.0, 5630.0, 5343.0, 5466.0,

						5420.0, 5291.0, 5295.0, 5665.0, 5589.0, 5390.0, 5556.0, 5536.0, 5275.0, 5550.0, 5607.0, 5327.0, 5476.0, 5657.0, 5531.0, 5353.0, 5661.0, 5315.0, 5271.0, 5694.0, 5342.0, 5561.0, 5552.0, 5459.0, 5260.0, 5384.0, 5521.0, 5635.0, 5663.0, 5656.0, 5678.0, 5565.0, 5592.0, 5501.0, 5618.0, 5693.0, 5482.0, 5413.0, 5632.0, 5509.0, 5366.0, 5364.0, 5456.0, 5423.0, 5717.0, 5338.0, 5352.0, 5564.0, 5601.0, 5285.0, 5670.0, 5542.0, 5582.0, 5518.0, 5643.0, 5463.0, 5334.0, 5472.0, 5303.0, 5544.0, 5361.0, 5328.0, 5525.0, 5593.0, 5713.0, 5676.0, 5683.0, 5639.0, 5621.0, 5355.0, 5448.0, 5373.0, 5605.0, 5664.0, 5688.0, 5340.0, 5415.0, 5394.0, 5310.0, 5314.0, 5471.0, 5266.0, 5427.0, 5697.0, 5489.0, 5393.0, 5301.0, 5691.0, 5474.0, 5279.0 (number of hits: 7)
15	5550	9	1	333	1	5724.0, 5621.0, 5268.0, 5673.0, 5625.0, 5410.0, 5357.0, 5513.0, 5705.0, 5663.0, 5547.0, 5500.0, 5363.0, 5537.0, 5302.0, 5349.0, 5626.0, 5282.0, 5298.0, 5432.0, 5608.0, 5611.0, 5585.0, 5584.0, 5683.0, 5518.0, 5468.0, 5488.0, 5371.0, 5645.0, 5583.0, 5499.0, 5573.0, 5423.0, 5543.0, 5471.0, 5568.0, 5345.0, 5635.0, 5494.0, 5326.0, 5347.0, 5596.0, 5343.0, 5554.0, 5293.0, 5362.0, 5556.0, 5337.0, 5300.0, 5389.0, 5427.0, 5438.0, 5620.0, 5713.0, 5288.0, 5710.0, 5286.0, 5549.0, 5332.0, 5430.0, 5346.0, 5701.0, 5649.0, 5660.0, 5698.0, 5451.0, 5364.0, 5478.0, 5668.0, 5586.0, 5548.0, 5618.0, 5352.0, 5394.0, 5597.0, 5560.0, 5651.0, 5567.0, 5383.0, 5600.0, 5304.0, 5541.0, 5552.0, 5284.0, 5404.0, 5316.0, 5703.0, 5381.0, 5594.0, 5623.0, 5610.0, 5476.0, 5265.0, 5717.0, 5420.0, 5379.0, 5719.0, 5397.0, 5688.0 (number of hits: 7)
16	5550	9	1	333	1	5379.0, 5623.0, 5369.0, 5280.0, 5528.0, 5604.0, 5449.0, 5508.0, 5507.0, 5591.0, 5293.0, 5394.0, 5509.0, 5540.0, 5530.0, 5296.0, 5416.0, 5398.0, 5447.0, 5494.0, 5513.0, 5258.0, 5549.0, 5654.0, 5594.0, 5632.0, 5313.0, 5547.0, 5445.0, 5498.0, 5300.0, 5532.0, 5720.0, 5422.0, 5577.0, 5589.0, 5515.0, 5567.0, 5337.0, 5677.0, 5256.0, 5542.0, 5419.0, 5427.0, 5653.0, 5520.0, 5252.0, 5682.0, 5690.0, 5470.0, 5657.0, 5404.0, 5393.0, 5490.0, 5315.0, 5681.0, 5328.0, 5489.0, 5474.0, 5475.0, 5614.0, 5603.0, 5610.0, 5628.0, 5410.0, 5279.0, 5496.0, 5450.0, 5463.0, 5257.0, 5477.0, 5493.0, 5669.0, 5481.0, 5455.0, 5523.0, 5582.0, 5360.0, 5358.0, 5370.0,

						5356.0, 5557.0, 5664.0, 5525.0, 5652.0, 5350.0, 5271.0, 5374.0, 5254.0, 5351.0, 5453.0, 5409.0, 5670.0, 5411.0, 5469.0, 5264.0, 5592.0, 5631.0, 5505.0, 5423.0 (number of hits: 4)
17	5550	9	1	333	1	5695.0, 5677.0, 5613.0, 5383.0, 5371.0, 5688.0, 5636.0, 5562.0, 5331.0, 5680.0, 5608.0, 5576.0, 5368.0, 5679.0, 5448.0, 5340.0, 5475.0, 5422.0, 5684.0, 5707.0, 5549.0, 5585.0, 5591.0, 5391.0, 5554.0, 5485.0, 5253.0, 5645.0, 5431.0, 5610.0, 5719.0, 5533.0, 5289.0, 5277.0, 5267.0, 5260.0, 5409.0, 5404.0, 5631.0, 5569.0, 5504.0, 5535.0, 5584.0, 5619.0, 5306.0, 5655.0, 5476.0, 5487.0, 5713.0, 5469.0, 5618.0, 5355.0, 5691.0, 5435.0, 5716.0, 5266.0, 5488.0, 5513.0, 5334.0, 5500.0, 5614.0, 5568.0, 5315.0, 5721.0, 5274.0, 5316.0, 5648.0, 5671.0, 5561.0, 5389.0, 5539.0, 5603.0, 5670.0, 5278.0, 5649.0, 5381.0, 5552.0, 5553.0, 5626.0, 5676.0, 5308.0, 5532.0, 5517.0, 5489.0, 5436.0, 5557.0, 5511.0, 5328.0, 5650.0, 5658.0, 5380.0, 5521.0, 5642.0, 5257.0, 5388.0, 5596.0, 5397.0, 5516.0, 5606.0, 5291.0 (number of hits: 4)
18	5550	9	1	333	1	5436.0, 5495.0, 5682.0, 5318.0, 5577.0, 5304.0, 5276.0, 5308.0, 5564.0, 5430.0, 5382.0, 5609.0, 5464.0, 5692.0, 5344.0, 5616.0, 5527.0, 5456.0, 5281.0, 5508.0, 5253.0, 5320.0, 5712.0, 5325.0, 5328.0, 5511.0, 5437.0, 5258.0, 5548.0, 5467.0, 5486.0, 5676.0, 5629.0, 5339.0, 5494.0, 5636.0, 5524.0, 5341.0, 5292.0, 5483.0, 5370.0, 5573.0, 5356.0, 5610.0, 5723.0, 5480.0, 5572.0, 5291.0, 5272.0, 5358.0, 5350.0, 5323.0, 5621.0, 5651.0, 5700.0, 5280.0, 5342.0, 5482.0, 5340.0, 5529.0, 5554.0, 5716.0, 5317.0, 5683.0, 5255.0, 5388.0, 5635.0, 5569.0, 5459.0, 5301.0, 5620.0, 5561.0, 5673.0, 5367.0, 5402.0, 5704.0, 5507.0, 5523.0, 5499.0, 5387.0, 5518.0, 5519.0, 5326.0, 5473.0, 5349.0, 5582.0, 5319.0, 5669.0, 5617.0, 5296.0, 5360.0, 5420.0, 5337.0, 5457.0, 5374.0, 5589.0, 5638.0, 5454.0, 5363.0, 5567.0 (number of hits: 6)
19	5550	9	1	333	1	5454.0, 5390.0, 5700.0, 5535.0, 5319.0, 5426.0, 5387.0, 5613.0, 5428.0, 5665.0, 5525.0, 5373.0, 5405.0, 5590.0, 5705.0, 5337.0, 5353.0, 5533.0, 5718.0, 5571.0, 5330.0, 5301.0, 5283.0, 5388.0, 5296.0, 5578.0, 5669.0, 5364.0, 5397.0, 5476.0, 5696.0, 5591.0, 5547.0, 5503.0, 5713.0, 5662.0, 5640.0, 5292.0, 5644.0, 5652.0, 5490.0, 5348.0, 5551.0, 5501.0, 5354.0,

						5411.0, 5492.0, 5424.0, 5365.0, 5666.0, 5380.0, 5408.0, 5262.0, 5524.0, 5391.0, 5366.0, 5693.0, 5687.0, 5711.0, 5674.0, 5539.0, 5626.0, 5394.0, 5706.0, 5254.0, 5600.0, 5448.0, 5554.0, 5682.0, 5433.0, 5308.0, 5561.0, 5389.0, 5418.0, 5574.0, 5542.0, 5269.0, 5723.0, 5627.0, 5598.0, 5343.0, 5519.0, 5290.0, 5569.0, 5270.0, 5268.0, 5298.0, 5614.0, 5671.0, 5333.0, 5414.0, 5616.0, 5496.0, 5457.0, 5531.0, 5480.0, 5295.0, 5686.0, 5491.0, 5507.0 (number of hits: 7)
20	5550	9	1	333	1	5412.0, 5593.0, 5281.0, 5668.0, 5690.0, 5447.0, 5463.0, 5365.0, 5305.0, 5274.0, 5603.0, 5572.0, 5660.0, 5374.0, 5260.0, 5709.0, 5592.0, 5570.0, 5487.0, 5427.0, 5301.0, 5469.0, 5484.0, 5294.0, 5330.0, 5683.0, 5600.0, 5530.0, 5421.0, 5586.0, 5420.0, 5604.0, 5719.0, 5458.0, 5649.0, 5386.0, 5678.0, 5535.0, 5710.0, 5272.0, 5435.0, 5299.0, 5413.0, 5656.0, 5694.0, 5576.0, 5513.0, 5512.0, 5697.0, 5669.0, 5587.0, 5643.0, 5364.0, 5634.0, 5291.0, 5705.0, 5328.0, 5309.0, 5455.0, 5483.0, 5306.0, 5486.0, 5567.0, 5372.0, 5264.0, 5696.0, 5286.0, 5547.0, 5381.0, 5276.0, 5650.0, 5432.0, 5462.0, 5353.0, 5531.0, 5283.0, 5320.0, 5395.0, 5554.0, 5423.0, 5275.0, 5528.0, 5657.0, 5506.0, 5698.0, 5493.0, 5640.0, 5519.0, 5361.0, 5515.0, 5373.0, 5673.0, 5415.0, 5498.0, 5631.0, 5443.0, 5610.0, 5635.0, 5457.0, 5345.0 (number of hits: 8)
21	5550	9	1	333	1	5448.0, 5273.0, 5332.0, 5675.0, 5345.0, 5578.0, 5283.0, 5391.0, 5504.0, 5303.0, 5619.0, 5481.0, 5520.0, 5673.0, 5480.0, 5442.0, 5344.0, 5642.0, 5631.0, 5439.0, 5432.0, 5294.0, 5711.0, 5541.0, 5275.0, 5623.0, 5567.0, 5304.0, 5620.0, 5286.0, 5655.0, 5671.0, 5373.0, 5676.0, 5452.0, 5490.0, 5381.0, 5686.0, 5454.0, 5546.0, 5540.0, 5604.0, 5714.0, 5399.0, 5553.0, 5558.0, 5258.0, 5335.0, 5441.0, 5590.0, 5360.0, 5354.0, 5466.0, 5261.0, 5709.0, 5606.0, 5289.0, 5274.0, 5287.0, 5329.0, 5334.0, 5653.0, 5586.0, 5601.0, 5628.0, 5521.0, 5693.0, 5661.0, 5282.0, 5626.0, 5298.0, 5645.0, 5702.0, 5395.0, 5390.0, 5680.0, 5497.0, 5346.0, 5694.0, 5704.0, 5417.0, 5380.0, 5589.0, 5414.0, 5535.0, 5256.0, 5302.0, 5685.0, 5357.0, 5330.0, 5470.0, 5341.0, 5531.0, 5565.0, 5400.0, 5396.0, 5402.0, 5514.0, 5517.0, 5534.0 (number of hits: 8)
22	5550	9	1	333	1	5546.0, 5499.0, 5666.0, 5540.0, 5292.0, 5307.0, 5664.0, 5637.0, 5509.0, 5698.0,

						5454.0, 5334.0, 5604.0, 5541.0, 5660.0, 5405.0, 5281.0, 5264.0, 5702.0, 5313.0, 5622.0, 5696.0, 5374.0, 5704.0, 5559.0, 5520.0, 5553.0, 5716.0, 5621.0, 5635.0, 5414.0, 5437.0, 5718.0, 5496.0, 5448.0, 5344.0, 5480.0, 5677.0, 5410.0, 5357.0, 5490.0, 5332.0, 5723.0, 5305.0, 5672.0, 5544.0, 5693.0, 5719.0, 5551.0, 5526.0, 5338.0, 5606.0, 5369.0, 5453.0, 5498.0, 5580.0, 5532.0, 5360.0, 5366.0, 5632.0, 5506.0, 5455.0, 5671.0, 5278.0, 5447.0, 5502.0, 5658.0, 5594.0, 5711.0, 5279.0, 5406.0, 5642.0, 5438.0, 5644.0, 5570.0, 5273.0, 5263.0, 5626.0, 5550.0, 5602.0, 5620.0, 5398.0, 5348.0, 5326.0, 5492.0, 5615.0, 5710.0, 5609.0, 5656.0, 5417.0, 5636.0, 5568.0, 5690.0, 5641.0, 5513.0, 5460.0, 5712.0, 5485.0, 5610.0, 5709.0 (number of hits: 4)
23	5550	9	1	333	1	5518.0, 5566.0, 5384.0, 5283.0, 5472.0, 5305.0, 5640.0, 5484.0, 5587.0, 5340.0, 5637.0, 5698.0, 5323.0, 5471.0, 5273.0, 5253.0, 5360.0, 5324.0, 5461.0, 5423.0, 5595.0, 5348.0, 5547.0, 5262.0, 5505.0, 5256.0, 5258.0, 5562.0, 5368.0, 5553.0, 5513.0, 5284.0, 5599.0, 5661.0, 5621.0, 5365.0, 5674.0, 5671.0, 5501.0, 5433.0, 5618.0, 5445.0, 5489.0, 5691.0, 5457.0, 5538.0, 5520.0, 5573.0, 5496.0, 5462.0, 5515.0, 5705.0, 5667.0, 5659.0, 5318.0, 5439.0, 5625.0, 5291.0, 5358.0, 5692.0, 5392.0, 5554.0, 5511.0, 5427.0, 5408.0, 5694.0, 5612.0, 5662.0, 5268.0, 5485.0, 5522.0, 5393.0, 5276.0, 5519.0, 5620.0, 5453.0, 5654.0, 5481.0, 5488.0, 5598.0, 5588.0, 5646.0, 5404.0, 5597.0, 5672.0, 5664.0, 5604.0, 5351.0, 5469.0, 5431.0, 5495.0, 5375.0, 5516.0, 5605.0, 5651.0, 5336.0, 5673.0, 5257.0, 5388.0, 5441.0 (number of hits: 2)
24	5550	9	1	333	1	5316.0, 5459.0, 5585.0, 5284.0, 5424.0, 5444.0, 5406.0, 5405.0, 5448.0, 5598.0, 5329.0, 5654.0, 5281.0, 5712.0, 5295.0, 5496.0, 5267.0, 5357.0, 5648.0, 5701.0, 5481.0, 5299.0, 5462.0, 5662.0, 5282.0, 5347.0, 5527.0, 5670.0, 5421.0, 5492.0, 5346.0, 5317.0, 5297.0, 5382.0, 5528.0, 5318.0, 5542.0, 5707.0, 5661.0, 5618.0, 5640.0, 5534.0, 5619.0, 5328.0, 5567.0, 5289.0, 5574.0, 5633.0, 5673.0, 5553.0, 5443.0, 5433.0, 5304.0, 5290.0, 5452.0, 5695.0, 5719.0, 5509.0, 5441.0, 5634.0, 5364.0, 5502.0, 5334.0, 5468.0, 5359.0, 5463.0, 5273.0, 5252.0, 5280.0, 5255.0, 5363.0, 5655.0, 5548.0, 5683.0, 5445.0, 5688.0, 5588.0, 5517.0, 5393.0, 5514.0,

						5536.0, 5458.0, 5657.0, 5552.0, 5584.0, 5365.0, 5577.0, 5620.0, 5372.0, 5388.0, 5314.0, 5569.0, 5442.0, 5257.0, 5271.0, 5646.0, 5466.0, 5461.0, 5678.0, 5568.0 (number of hits: 7)
25	5550	9	1	333	1	5568.0, 5322.0, 5456.0, 5540.0, 5450.0, 5461.0, 5548.0, 5446.0, 5555.0, 5470.0, 5552.0, 5533.0, 5505.0, 5448.0, 5723.0, 5408.0, 5604.0, 5610.0, 5626.0, 5632.0, 5643.0, 5684.0, 5382.0, 5252.0, 5256.0, 5507.0, 5442.0, 5429.0, 5273.0, 5611.0, 5696.0, 5669.0, 5253.0, 5722.0, 5347.0, 5397.0, 5709.0, 5390.0, 5700.0, 5274.0, 5574.0, 5560.0, 5721.0, 5525.0, 5263.0, 5613.0, 5444.0, 5399.0, 5616.0, 5277.0, 5671.0, 5480.0, 5543.0, 5624.0, 5614.0, 5307.0, 5636.0, 5642.0, 5715.0, 5570.0, 5321.0, 5705.0, 5337.0, 5509.0, 5375.0, 5452.0, 5437.0, 5356.0, 5255.0, 5694.0, 5270.0, 5453.0, 5622.0, 5695.0, 5541.0, 5546.0, 5295.0, 5476.0, 5698.0, 5708.0, 5588.0, 5542.0, 5482.0, 5376.0, 5445.0, 5311.0, 5647.0, 5422.0, 5327.0, 5649.0, 5650.0, 5522.0, 5428.0, 5652.0, 5358.0, 5405.0, 5704.0, 5417.0, 5718.0, 5717.0 (number of hits: 3)
26	5550	9	1	333	1	5471.0, 5468.0, 5408.0, 5668.0, 5317.0, 5321.0, 5425.0, 5548.0, 5313.0, 5672.0, 5427.0, 5626.0, 5445.0, 5450.0, 5397.0, 5356.0, 5443.0, 5335.0, 5689.0, 5287.0, 5400.0, 5367.0, 5312.0, 5337.0, 5311.0, 5648.0, 5280.0, 5507.0, 5422.0, 5529.0, 5309.0, 5617.0, 5551.0, 5282.0, 5264.0, 5614.0, 5304.0, 5682.0, 5504.0, 5679.0, 5708.0, 5255.0, 5508.0, 5611.0, 5301.0, 5378.0, 5602.0, 5690.0, 5259.0, 5285.0, 5289.0, 5583.0, 5299.0, 5418.0, 5283.0, 5488.0, 5622.0, 5703.0, 5373.0, 5510.0, 5442.0, 5298.0, 5343.0, 5495.0, 5353.0, 5623.0, 5707.0, 5276.0, 5381.0, 5327.0, 5701.0, 5655.0, 5711.0, 5423.0, 5375.0, 5342.0, 5440.0, 5363.0, 5370.0, 5684.0, 5267.0, 5419.0, 5436.0, 5593.0, 5615.0, 5618.0, 5697.0, 5558.0, 5372.0, 5576.0, 5325.0, 5339.0, 5403.0, 5604.0, 5721.0, 5545.0, 5536.0, 5361.0, 5685.0, 5399.0 (number of hits: 11)
27	5550	9	1	333	1	5655.0, 5493.0, 5427.0, 5423.0, 5470.0, 5617.0, 5334.0, 5583.0, 5430.0, 5478.0, 5656.0, 5320.0, 5452.0, 5438.0, 5484.0, 5352.0, 5257.0, 5263.0, 5440.0, 5363.0, 5666.0, 5376.0, 5632.0, 5551.0, 5485.0, 5406.0, 5373.0, 5382.0, 5589.0, 5664.0, 5466.0, 5517.0, 5630.0, 5322.0, 5283.0, 5619.0, 5444.0, 5454.0, 5702.0, 5593.0, 5668.0, 5661.0, 5572.0, 5465.0, 5368.0,

						5676.0, 5708.0, 5415.0, 5535.0, 5293.0, 5441.0, 5693.0, 5562.0, 5612.0, 5505.0, 5543.0, 5325.0, 5346.0, 5285.0, 5639.0, 5526.0, 5324.0, 5642.0, 5538.0, 5689.0, 5347.0, 5549.0, 5350.0, 5353.0, 5660.0, 5336.0, 5412.0, 5494.0, 5522.0, 5571.0, 5287.0, 5450.0, 5296.0, 5684.0, 5274.0, 5313.0, 5306.0, 5499.0, 5552.0, 5385.0, 5289.0, 5531.0, 5282.0, 5370.0, 5456.0, 5654.0, 5403.0, 5502.0, 5449.0, 5663.0, 5279.0, 5351.0, 5266.0, 5514.0, 5570.0 (number of hits: 7)
28	5550	9	1	333	1	5297.0, 5360.0, 5304.0, 5649.0, 5352.0, 5344.0, 5497.0, 5647.0, 5708.0, 5396.0, 5697.0, 5631.0, 5640.0, 5403.0, 5354.0, 5384.0, 5411.0, 5512.0, 5484.0, 5441.0, 5645.0, 5251.0, 5561.0, 5711.0, 5320.0, 5590.0, 5508.0, 5537.0, 5342.0, 5264.0, 5426.0, 5309.0, 5692.0, 5580.0, 5545.0, 5273.0, 5661.0, 5591.0, 5469.0, 5301.0, 5268.0, 5510.0, 5261.0, 5678.0, 5433.0, 5613.0, 5381.0, 5465.0, 5366.0, 5319.0, 5701.0, 5274.0, 5341.0, 5295.0, 5252.0, 5418.0, 5300.0, 5609.0, 5677.0, 5357.0, 5515.0, 5380.0, 5402.0, 5524.0, 5624.0, 5364.0, 5256.0, 5614.0, 5369.0, 5437.0, 5577.0, 5317.0, 5330.0, 5641.0, 5536.0, 5356.0, 5291.0, 5546.0, 5712.0, 5358.0, 5489.0, 5550.0, 5447.0, 5532.0, 5414.0, 5376.0, 5288.0, 5424.0, 5401.0, 5517.0, 5423.0, 5422.0, 5483.0, 5654.0, 5544.0, 5557.0, 5518.0, 5359.0, 5278.0, 5473.0 (number of hits: 8)
29	5550	9	1	333	1	5444.0, 5447.0, 5360.0, 5389.0, 5355.0, 5423.0, 5471.0, 5393.0, 5469.0, 5512.0, 5347.0, 5562.0, 5569.0, 5507.0, 5314.0, 5259.0, 5633.0, 5300.0, 5627.0, 5504.0, 5594.0, 5467.0, 5598.0, 5563.0, 5433.0, 5427.0, 5378.0, 5649.0, 5621.0, 5669.0, 5564.0, 5578.0, 5375.0, 5343.0, 5526.0, 5257.0, 5673.0, 5486.0, 5623.0, 5383.0, 5436.0, 5368.0, 5522.0, 5630.0, 5409.0, 5497.0, 5310.0, 5439.0, 5579.0, 5478.0, 5329.0, 5276.0, 5665.0, 5275.0, 5279.0, 5520.0, 5388.0, 5714.0, 5335.0, 5555.0, 5629.0, 5694.0, 5568.0, 5397.0, 5583.0, 5575.0, 5717.0, 5668.0, 5266.0, 5509.0, 5690.0, 5386.0, 5448.0, 5315.0, 5372.0, 5480.0, 5451.0, 5460.0, 5546.0, 5398.0, 5349.0, 5373.0, 5643.0, 5328.0, 5465.0, 5450.0, 5651.0, 5524.0, 5663.0, 5624.0, 5608.0, 5644.0, 5271.0, 5410.0, 5364.0, 5263.0, 5399.0, 5518.0, 5503.0, 5581.0 (number of hits: 3)
30	5550	9	1	333	1	5585.0, 5476.0, 5669.0, 5542.0, 5510.0, 5390.0, 5335.0, 5307.0, 5691.0, 5716.0,

						5478.0, 5509.0, 5618.0, 5310.0, 5575.0, 5648.0, 5527.0, 5255.0, 5631.0, 5423.0, 5301.0, 5681.0, 5412.0, 5487.0, 5582.0, 5505.0, 5463.0, 5684.0, 5356.0, 5454.0, 5380.0, 5299.0, 5628.0, 5649.0, 5379.0, 5562.0, 5504.0, 5501.0, 5494.0, 5429.0, 5607.0, 5508.0, 5316.0, 5367.0, 5644.0, 5531.0, 5529.0, 5581.0, 5398.0, 5283.0, 5583.0, 5354.0, 5616.0, 5251.0, 5284.0, 5280.0, 5322.0, 5404.0, 5254.0, 5337.0, 5532.0, 5459.0, 5635.0, 5717.0, 5621.0, 5373.0, 5637.0, 5331.0, 5469.0, 5281.0, 5432.0, 5679.0, 5697.0, 5612.0, 5596.0, 5314.0, 5560.0, 5613.0, 5570.0, 5482.0, 5472.0, 5520.0, 5492.0, 5475.0, 5341.0, 5653.0, 5319.0, 5714.0, 5598.0, 5617.0, 5571.0, 5338.0, 5523.0, 5547.0, 5468.0, 5601.0, 5567.0, 5315.0, 5279.0, 5595.0 (number of hits: 5)
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40MHz**5270 MHz**

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	86.7 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	96.7 %	60%	Pass
Aggregate (Type1 to 4)	120	95.85 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5280MHz**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	0
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	0
15	5270	18	1	1428	1
16	5270	18	1	1428	0
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	0
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: 86.7 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	23	4.6	230	1
2	5270	23	3.3	164	1
3	5270	27	4	201	1
4	5270	29	3.4	200	1
5	5270	25	1.9	200	1
6	5270	23	4.2	205	1
7	5270	23	1	199	1
8	5270	27	4.6	195	1
9	5270	23	3.9	197	1
10	5270	23	2.7	158	1
11	5270	29	1.1	190	1
12	5270	25	2	213	1
13	5270	23	1.3	212	1
14	5270	25	1.1	207	1
15	5270	26	4.7	165	1
16	5270	25	2.2	175	1
17	5270	24	2.1	161	1
18	5270	23	4	219	1
19	5270	24	2.5	160	1
20	5270	27	2.4	191	1
21	5270	25	4.6	220	1
22	5270	27	3.3	162	1
23	5270	28	3	176	1
24	5270	24	3.9	218	1
25	5270	27	4.6	153	1
26	5270	28	1.4	166	1
27	5270	26	1.5	228	1
28	5270	27	3	203	1
29	5270	24	2.5	184	1
30	5270	24	4.1	160	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	18	6.7	490	1
2	5270	18	6	307	1
3	5270	18	7.4	435	1
4	5270	17	9.2	441	1
5	5270	17	9.5	205	1
6	5270	18	8	220	1
7	5270	17	6.6	335	1
8	5270	17	7.8	283	1
9	5270	16	7.6	490	1
10	5270	16	8.5	287	1
11	5270	17	9.2	379	1
12	5270	16	7	483	1
13	5270	17	9.9	267	1
14	5270	17	7.1	327	1
15	5270	17	9.2	237	1
16	5270	16	6.5	326	1
17	5270	16	7.9	330	1
18	5270	16	6.7	220	1
19	5270	17	8.8	490	1
20	5270	18	7	299	1
21	5270	17	9.7	255	1
22	5270	16	6.1	406	1
23	5270	17	8.2	278	1
24	5270	18	7.3	444	1
25	5270	16	7.5	434	1
26	5270	17	9.5	491	1
27	5270	16	9.4	209	1
28	5270	17	9.6	240	1
29	5270	17	7.7	443	1
30	5270	17	6.2	452	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	16	18.7	420	1
2	5270	12	16.6	384	1
3	5270	15	11.9	338	1
4	5270	15	14.5	287	1
5	5270	16	15.4	206	0
6	5270	13	15.5	470	1
7	5270	16	15	456	1
8	5270	16	13.4	239	1
9	5270	13	12.6	291	1
10	5270	16	14.8	496	1
11	5270	16	19.1	487	1
12	5270	15	14	288	1
13	5270	15	18	344	1
14	5270	14	19	206	1
15	5270	13	17.2	495	1
16	5270	12	15	325	1
17	5270	14	13.6	253	1
18	5270	16	12	480	1
19	5270	15	15.7	213	1
20	5270	14	16.5	355	1
21	5270	15	11.4	319	1
22	5270	15	16.7	377	1
23	5270	13	12.1	402	1
24	5270	14	15.9	306	1
25	5270	16	12.1	236	1
26	5270	16	16.3	487	1
27	5270	15	13.2	306	1
28	5270	14	12.1	253	1
29	5270	15	14.4	337	1
30	5270	13	11.5	366	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	10	97.1	1821	1316	0.041227	1
1	1	8	96.6			0.983523	
2	3	17	76.5	1055	1176	1.646606	
3	2	13	71.2	1741		2.58855	
4	3	12	79.4	1854	1542	2.697725	
5	1	19	88.2			3.941401	
6	1	9	69.2			4.426534	
7	3	14	62.7	1911	1434	4.972323	
8	1	9	61.6			5.738614	
9	2	8	85.5	1399		6.465136	
10	2	7	90.5	1872		7.029772	
11	3	20	99.1	1035	1917	7.517907	
12	2	9	56.9	1956		8.342543	
13	3	8	83.1	1048	1715	9.229114	
14	2	6	68.1	1706		9.692464	
15	2	14	74.4	1868		10.564491	
16	1	11	55.3			11.050024	
17	1	8	93.7			11.547003	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	58.7	1477	1584	0.64444	1
1	2	16	57.1	1326		1.280662	
2	1	20	58			2.285109	
3	3	19	73.6	1331	1056	2.884494	
4	2	10	90.8	1985		3.602633	
5	2	10	59.9	1656		4.343536	
6	2	17	78.8	1573		5.48337	
7	1	9	95.9			5.912049	
8	2	6	72.2	1882		6.609574	
9	2	11	59.2	1784		7.222996	
10	2	17	89.5	1073		8.138979	
11	1	5	68.4			9.482436	
12	2	8	95.1	1984		10.380028	
13	3	18	84.3	1408	1786	10.726266	
14	2	16	59.9	1847		11.430546	

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	6	59.9	1386	1996	1.063524	1
1	3	6	86.6	1185	1848	1.261227	
2	1	11	97.2			2.561698	
3	3	13	84.7	1498	1465	4.00983	
4	2	12	78	1425		5.161349	
5	2	15	75.4	1950		6.708591	
6	3	17	66.2	1111	1611	7.335673	
7	2	13	56.3	1218		9.055501	
8	2	18	79	1418		10.656759	
9	1	12	66.3			10.935714	

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	15	63.7	1342		0.406886	1
1	2	17	58.2	1007		1.194466	
2	2	18	90.6	1579		1.899159	
3	1	12	65.5			2.702105	
4	2	13	89.6	1147		3.560673	
5	1	9	66.6			3.869527	
6	2	19	94.2	1962		4.78575	
7	2	19	56.1	1064		5.571268	
8	2	15	83.4	1238		6.502216	
9	2	6	92.6	1389		7.114178	
10	1	6	99			7.895136	
11	3	11	90.6	1711	1275	8.758623	
12	2	7	76.3	1929		9.652535	
13	2	18	56.5	1213		10.020696	
14	1	18	60.9			10.540091	
15	2	16	84.4	1966		11.881727	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	81.7			0.319472	1
1	2	20	72.6	1604		1.360741	
2	1	5	80.5			2.882306	
3	1	6	98.6			3.864711	
4	3	8	52.9	1912	1177	4.622297	
5	3	13	90.9	1287	1358	5.307045	
6	2	13	97	1419		6.136148	
7	3	19	59.7	1255	1932	7.25167	
8	3	17	71.2	1221	1858	8.500984	
9	1	17	80.5			9.739778	
10	2	9	60.5	1415		10.621225	
11	1	8	81.9			11.849405	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	89.8			0.077627	1
1	2	20	86.9	1789		0.954719	
2	1	5	87.7			2.103741	
3	2	10	72.9	1028		2.392016	
4	1	10	69.9			3.600439	
5	1	9	84			4.083104	
6	2	9	78.3	1001		4.914259	
7	2	10	53	1799		5.829556	
8	2	16	54.8	1024		6.220812	
9	2	9	81	1759		6.798367	
10	2	15	52.5	1482		7.878799	
11	1	20	98			8.576303	
12	3	16	57.8	1844	1977	9.315923	
13	1	17	89.7			10.137022	
14	2	17	73.2	1507		11.241256	
15	2	20	97.4	1696		11.490066	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	88.4			0.527254	1
1	2	18	63	1178		1.164103	
2	1	16	99.3			1.574252	
3	3	10	63.6	1651	1505	2.264286	
4	2	6	85.5	1498		2.748321	
5	1	13	80.8			3.506945	
6	1	9	73.2			4.19945	
7	2	6	88.4	1027		5.146749	
8	2	12	78.9	1047		5.803705	
9	1	7	99			6.406236	
10	3	8	70	1324	1872	7.037074	
11	2	14	79.8	1173		7.624363	
12	2	11	92.7	1726		8.313128	
13	1	8	90.5			9.002377	
14	2	14	89.1	1196		9.69696	
15	3	10	95.8	1872	1955	10.259387	
16	3	10	65.3	1474	1584	11.179708	
17	1	7	50			11.35054	

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	11	54.7			0.441501	1
1	2	6	54	1831		2.047246	
2	3	7	85.8	1181	1797	2.962156	
3	2	11	57	1047		4.210029	
4	2	17	77.2	1444		5.35929	
5	1	10	70.3			6.525478	
6	1	10	90.6			6.990083	
7	3	14	81	1816	1349	8.557614	
8	3	7	96.2	1702	1191	9.310478	
9	2	15	76	1931		10.280185	
10	2	16	86.3	1820		11.224699	

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	14	78.7			0.535273	1
1	2	14	88.3	1437		1.155246	
2	2	12	92.9	1214		3.229334	
3	2	17	76.1	1965		3.676878	
4	3	19	63.1	1286	1240	5.217868	
5	2	9	53.8	1142		5.981857	
6	1	15	57.7			7.206221	
7	1	19	60.3			8.057259	
8	2	12	59.7	1790		9.60587	
9	1	15	67.8			10.540797	
10	1	8	67.4			11.79115	

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	9	50.4	1841	1522	0.524559	1
1	1	6	97.1			1.580166	
2	3	11	69.5	1841	1734	2.124946	
3	1	13	55			3.028457	
4	2	20	75.6	1488		4.139851	
5	3	18	58.7	1190	1360	5.708948	
6	2	12	68.8	1005		6.432676	
7	3	15	71.3	1530	1004	7.112474	
8	3	18	91.1	1639	1771	8.408762	
9	2	5	90.5	1487		9.595731	
10	2	18	63.3	1027		10.214094	
11	1	19	68.9			11.912144	

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	15	51.1	1910	1393	0.271483	1
1	1	18	57.2			1.589032	
2	1	10	90.2			2.586121	
3	3	12	90.6	1617	1836	3.250857	
4	1	10	80.3			4.204491	
5	1	20	77.9			5.482033	
6	2	10	73.3	1216		5.641012	
7	1	13	94.8			7.171125	
8	2	17	60.2	1500		8.137415	
9	2	9	65.2	1552		8.746751	
10	1	11	73.4			10.146067	
11	3	13	85.9	1357	1240	10.169297	
12	2	10	62.8	1620		11.274537	

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	14	55.2	1708		0.471109	1
1	2	17	92	1984		0.868895	
2	2	17	63.3	1791		1.351006	
3	3	17	88.8	1111	1559	2.020256	
4	2	8	78.4	1179		2.90581	
5	2	18	56	1966		3.959674	
6	1	7	88.7			4.047714	
7	2	13	71.4	1140		5.172327	
8	2	16	62	1210		5.75288	
9	1	20	54.2			6.230249	
10	1	8	84.2			7.052647	
11	3	9	84.1	1437	1050	7.935965	
12	2	19	93	1047		8.586066	
13	2	13	95.5	1469		9.262313	
14	2	16	58	1755		9.476495	
15	2	18	76.1	1793		10.152578	
16	3	8	78.6	1963	1786	10.950162	
17	2	14	88.4	1238		11.705461	

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	13	88.9	1808	1704	0.358774	1
1	3	10	53.9	1338	1908	1.774971	
2	3	10	100	1029	1278	2.011495	
3	2	17	88.8	1799		3.050002	
4	3	6	77.9	1965	1657	4.231327	
5	2	16	94.1	1413		4.964496	
6	3	6	66.8	1104	1297	5.99011	
7	2	11	64.1	1316		6.761313	
8	1	7	81.2			8.00204	
9	3	14	50.5	1295	1245	8.321574	
10	2	11	56.7	1560		9.55743	
11	1	17	98.9			10.227208	
12	3	11	98.8	1736	1058	11.38091	

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	18	56.3			0.405582	1
1	1	15	72.1			1.444408	
2	2	17	69.2	1070		1.700752	
3	2	18	59.4	1925		2.593882	
4	2	12	88.7	1204		3.404478	
5	2	9	51.9	1568		4.276161	
6	3	11	62.4	1594	1233	5.260075	
7	2	9	88.3	1642		6.120859	
8	1	18	81.3			6.714573	
9	2	17	74	1021		7.94833	
10	2	6	98.4	1112		8.381108	
11	2	19	58.8	1935		9.484875	
12	2	10	56.6	1369		10.085711	
13	2	12	82.9	1839		11.134541	
14	2	6	87.3	1989		11.515387	

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	9	89.6	1075	1661	0.393377	1
1	1	16	65.3			0.936502	
2	1	14	93.3			2.151197	
3	2	10	86.3	1954		2.255961	
4	2	12	78.9	1395		3.696726	
5	3	19	81.6	1411	1797	3.958538	
6	2	18	92.5	1307		5.198001	
7	3	12	61.1	1712	1224	5.883444	
8	3	5	63.5	1752	1910	6.101154	
9	2	19	63.5	1346		7.316701	
10	3	11	52	1023	1453	7.72943	
11	2	19	76.9	1994		8.409351	
12	3	17	69.7	1676	1420	9.469171	
13	1	12	82.9			9.979119	
14	2	13	76.2	1960		11.06015	
15	1	19	54.4			11.61875	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	54			0.116706	1
1	2	19	88.9	1715		1.51108	
2	3	8	79.7	1899	1046	1.806405	
3	2	8	86.4	1772		2.995864	
4	2	6	59.2	1703		3.695381	
5	3	14	63.3	1917	1729	5.056462	
6	1	10	84.1			5.915909	
7	3	19	61.7	1819	1484	6.325811	
8	1	18	89.7			7.364971	
9	2	17	75.9	1477		7.97133	
10	2	18	76.7	1901		8.599146	
11	1	7	62.7			9.9796	
12	2	15	97.7	1605		10.78191	
13	2	11	56.3	1549		11.175582	

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	13	99.5	1135		0.719209	1
1	2	7	57.3	1421		1.001094	
2	2	18	57.4	1951		1.967234	
3	1	14	62.5			2.488711	
4	2	17	90.5	1897		3.736486	
5	3	13	91.8	1290	1290	4.170162	
6	1	8	51.4			4.994873	
7	2	18	85.1	1734		6.179726	
8	1	13	64			6.879755	
9	1	9	94.5			7.439446	
10	2	13	86.5	1375		8.388683	
11	1	18	96.8			9.565377	
12	3	12	77	1007	1053	9.610768	
13	2	19	92.3	1214		11.039138	
14	3	13	67	1384	1895	11.831426	

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	13	59.2			0.671362	1
1	1	15	53.6			2.013771	
2	1	10	72.3			3.09661	
3	1	12	91.3			3.7903	
4	1	20	88.3			4.662906	
5	2	7	60.7	1006		6.233009	
6	1	11	89.9			7.260988	
7	2	11	80.6	1382		7.79438	
8	3	12	74.4	1044	1843	9.270491	
9	3	17	69.6	1935	1661	10.194417	
10	3	13	52.5	1521	1311	11.41173	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	60.4	1228	1227	0.665936	1
1	2	10	83.8	1951		2.601306	
2	2	19	56.7	1634		3.509717	
3	2	5	76.3	1054		4.244697	
4	2	9	73.6	1160		5.59898	
5	1	17	86.7			6.765194	
6	2	10	97.1	1528		8.776568	
7	2	13	80.8	1940		9.386003	
8	3	15	87	1328	1751	11.697067	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	82.9	1712		0.275578	1
1	2	19	97	1469		0.779048	
2	3	7	52.5	1386	1012	1.928113	
3	1	16	84.3			2.334085	
4	3	14	64.7	1462	1972	2.856039	
5	3	16	54.8	1089	1468	3.978599	
6	2	17	57.8	1558		4.547572	
7	2	20	87.3	1165		5.112645	
8	1	17	100			5.506018	
9	3	18	61.6	1023	1105	6.225111	
10	3	16	76.4	1968	1981	7.156106	
11	2	17	98.5	1604		7.743911	
12	2	7	59.2	1953		8.659429	
13	3	19	75.7	1874	1206	8.888656	
14	3	13	77.8	1056	1397	9.845666	
15	1	12	90.2			10.445947	
16	1	11	77.8			11.010168	
17	3	9	63.7	1930	1611	11.569974	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	85	1835	1862	0.771842	1
1	3	6	54.9	1488	1211	1.05662	
2	2	20	66.5	1157		2.006822	
3	3	7	64.2	1086	1080	3.900286	
4	3	17	60	1053	1240	4.40966	
5	2	10	80.2	1827		5.957533	
6	1	19	88.1			6.782435	
7	1	16	50.8			7.291199	
8	2	17	68.9	1051		8.957704	
9	3	11	69.2	1882	1004	9.085084	
10	3	13	67.5	1660	1056	10.496494	
11	1	6	73.3			11.830067	

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	12	59.4	1870		0.069166	1
1	1	5	84.7			1.223034	
2	2	13	85.7	1362		2.582923	
3	2	11	64.9	1237		3.869765	
4	2	9	84.7	1955		4.871925	
5	2	20	85.3	1883		5.66476	
6	2	10	59.4	1382		6.071894	
7	2	9	87	1989		7.936626	
8	2	12	55.7	1968		8.745958	
9	3	17	85	1530	1900	9.589811	
10	3	19	74.4	1676	1134	10.188081	
11	2	9	80.2	1304		11.431554	

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	18	54.5			0.893418	1
1	2	14	88.7	1118		0.92677	
2	2	20	54.6	1086		2.44671	
3	2	15	62.7	1810		3.49241	
4	3	17	84.3	1936	1327	4.246419	
5	3	10	81.8	1880	1344	4.877449	
6	1	8	96.8			6.323697	
7	2	17	86.9	1171		7.181419	
8	1	9	53.3			7.493214	
9	1	10	85.4			8.927793	
10	2	14	99.7	1891		9.941687	
11	3	6	56.5	1589	1650	10.407786	
12	3	13	54.5	1241	1391	11.84252	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	66.6	1595	1411	0.565572	1
1	1	15	71.8			2.211553	
2	2	7	63.8	1808		3.152863	
3	2	14	50.2	1724		5.250532	
4	2	17	94	1877		6.083721	
5	2	10	89.7	1163		7.127928	
6	2	6	66	1086		9.118391	
7	3	6	86.9	1250	1890	10.136625	
8	1	15	97.8			10.843162	

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	9	81.2	1381	1273	0.148109	1
1	3	19	58.3	1076	1254	0.812624	
2	3	16	80.7	1311	1784	1.671075	
3	1	17	56.8			2.361128	
4	2	14	87.4	1736		3.052744	
5	1	8	79.5			3.904829	
6	1	17	96.4			4.608972	
7	1	12	84.2			5.976794	
8	1	9	74.6			6.176238	
9	1	9	61.9			7.122481	
10	3	7	69.6	1039	1123	8.083615	
11	1	16	65.6			8.887455	
12	2	16	52.5	1367		9.539769	
13	2	8	50.3	1277		10.129096	
14	1	10	78.7			10.829591	
15	2	19	66.4	1970		11.962577	

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	5	70.8	1079		0.831973	1
1	1	13	61.8			1.583057	
2	2	13	91	1607		2.519838	
3	1	11	64.7			4.323208	
4	2	17	79.9	1766		5.137126	
5	1	17	68.1			6.708862	
6	3	9	92.9	1420	1213	8.318203	
7	1	10	70.7			8.839647	
8	2	9	89.9	1121		9.908002	
9	1	7	71.4			10.805479	

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	18	59.1	1897		0.228394	1
1	1	17	57.7			0.712831	
2	2	13	85.2	1887		1.545025	
3	3	17	98.9	1042	1600	2.244703	
4	1	9	94.4			2.680016	
5	3	14	90.7	1569	1900	3.685874	
6	3	17	72	1641	1216	4.319559	
7	3	5	73	1186	1908	5.227759	
8	1	12	86.6			5.981816	
9	1	15	83.5			6.268868	
10	1	14	67.4			7.110935	
11	2	14	69.5	1265		7.812792	
12	1	8	80.4			8.420119	
13	1	16	50			8.718143	
14	3	11	94.2	1650	1982	9.493213	
15	2	10	74.2	1107		10.128944	
16	1	6	71.8			11.078655	
17	2	5	86.9	1218		11.631137	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	65.5	1376		0.304832	1
1	1	20	66.3			0.770523	
2	3	19	86.2	1574	1741	1.772423	
3	1	15	59.9			2.784803	
4	3	19	66.4	1687	1064	3.397159	
5	3	14	98	1958	1172	3.666775	
6	2	9	75.3	1031		4.410386	
7	3	11	50.1	1349	1544	5.378423	
8	2	11	60.5	1581		5.656699	
9	3	6	82.5	1387	1395	6.565583	
10	1	7	84			7.728801	
11	2	7	55.4	1217		8.400339	
12	2	14	54.3	1117		8.714035	
13	1	9	79.4			9.629122	
14	1	18	69.3			9.98524	
15	3	11	55.2	1735	1916	10.619162	
16	2	6	79.4	1605		11.37179	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	98.9	1028		0.031832	1
1	1	11	82.2			1.075601	
2	2	19	90.6	1464		1.397948	
3	2	18	91.4	1959		2.637298	
4	2	19	81.8	1123		3.146871	
5	2	7	62.9	1736		3.907244	
6	2	19	97.5	1163		4.564797	
7	2	8	93.4	1691		5.152194	
8	2	8	71.5	1201		5.667517	
9	2	8	53.4	1796		6.035548	
10	1	9	73.2			6.760378	
11	3	18	71.4	1680	1435	7.413662	
12	3	13	63.7	1860	1058	8.139704	
13	2	11	92.2	1440		9.050789	
14	3	18	66	1974	1596	9.742956	
15	1	5	86.3			10.084822	
16	2	7	55.4	1046		11.3206	
17	3	14	96.9	1587	1395	11.921736	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	69.6	1536		1.247319	1
1	1	6	83.6			1.531945	
2	3	18	62.7	1584	1498	3.191414	
3	3	11	84.9	1858	1240	5.206078	
4	3	6	74.7	1803	1752	5.904099	
5	1	12	93.8			6.858159	
6	3	15	72.4	1236	1878	8.615154	
7	1	16	72.8			9.97391	
8	1	15	62.9			11.42311	

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	5503.0, 5417.0, 5580.0, 5385.0, 5690.0, 5335.0, 5275.0, 5434.0, 5351.0, 5473.0, 5284.0, 5635.0, 5350.0, 5497.0, 5591.0, 5393.0, 5599.0, 5288.0, 5514.0, 5470.0, 5404.0, 5564.0, 5557.0, 5462.0, 5349.0, 5447.0, 5429.0, 5445.0, 5648.0, 5252.0, 5422.0, 5641.0, 5342.0, 5316.0, 5537.0, 5654.0, 5330.0, 5486.0, 5354.0, 5658.0, 5468.0, 5717.0, 5632.0, 5295.0, 5609.0, 5684.0, 5268.0, 5600.0, 5383.0, 5352.0, 5650.0, 5409.0, 5410.0, 5424.0, 5544.0, 5273.0, 5574.0, 5638.0, 5322.0, 5419.0, 5425.0, 5374.0, 5707.0, 5664.0, 5482.0, 5545.0, 5438.0, 5613.0, 5467.0, 5421.0, 5299.0, 5597.0, 5718.0, 5646.0, 5535.0, 5348.0, 5693.0, 5439.0, 5546.0, 5584.0, 5465.0, 5550.0, 5620.0, 5696.0, 5261.0, 5331.0, 5375.0, 5531.0, 5534.0, 5525.0, 5567.0, 5669.0, 5495.0, 5360.0, 5301.0, 5667.0, 5457.0, 5702.0, 5340.0, 5420.0 (number of hits: 4)
2	5270	9	1	333	1	5550.0, 5499.0, 5336.0, 5593.0, 5408.0, 5252.0, 5477.0, 5339.0, 5579.0, 5603.0, 5673.0, 5634.0, 5366.0, 5377.0, 5345.0, 5614.0, 5549.0, 5328.0, 5642.0, 5530.0, 5485.0, 5322.0, 5270.0, 5445.0, 5637.0, 5409.0, 5439.0, 5648.0, 5476.0, 5340.0, 5542.0, 5511.0, 5640.0, 5657.0, 5323.0, 5381.0, 5293.0, 5275.0, 5470.0, 5601.0, 5628.0, 5334.0, 5399.0, 5303.0, 5633.0, 5682.0, 5552.0, 5435.0, 5383.0, 5538.0, 5333.0, 5443.0, 5649.0, 5629.0, 5267.0, 5711.0, 5305.0, 5683.0, 5467.0, 5684.0, 5452.0, 5393.0, 5516.0, 5358.0, 5667.0, 5341.0, 5266.0, 5553.0, 5398.0, 5369.0, 5587.0, 5719.0, 5577.0, 5500.0, 5556.0, 5268.0, 5350.0, 5449.0, 5433.0, 5316.0, 5429.0, 5695.0, 5527.0, 5600.0, 5664.0, 5342.0, 5280.0, 5273.0, 5697.0, 5458.0, 5441.0, 5320.0, 5584.0, 5515.0, 5687.0, 5437.0, 5566.0, 5419.0, 5372.0, 5533.0 (number of hits: 3)
3	5270	9	1	333	1	5492.0, 5263.0, 5481.0, 5603.0, 5679.0, 5257.0, 5519.0, 5447.0, 5379.0, 5575.0, 5686.0, 5335.0, 5326.0, 5636.0, 5687.0, 5534.0, 5398.0, 5720.0, 5671.0, 5362.0, 5663.0, 5645.0, 5455.0, 5577.0, 5521.0, 5397.0, 5412.0, 5440.0, 5540.0, 5474.0, 5406.0, 5696.0, 5581.0, 5541.0, 5415.0, 5428.0, 5707.0, 5391.0, 5408.0, 5386.0,

						5554.0, 5680.0, 5422.0, 5552.0, 5583.0, 5710.0, 5672.0, 5677.0, 5361.0, 5648.0, 5328.0, 5470.0, 5598.0, 5616.0, 5569.0, 5272.0, 5477.0, 5591.0, 5402.0, 5441.0, 5323.0, 5427.0, 5626.0, 5449.0, 5602.0, 5642.0, 5647.0, 5655.0, 5305.0, 5722.0, 5528.0, 5640.0, 5437.0, 5366.0, 5291.0, 5673.0, 5431.0, 5445.0, 5404.0, 5657.0, 5529.0, 5301.0, 5599.0, 5665.0, 5320.0, 5579.0, 5405.0, 5623.0, 5259.0, 5570.0, 5649.0, 5513.0, 5491.0, 5274.0, 5374.0, 5468.0, 5684.0, 5389.0, 5691.0, 5355.0 (number of hits: 3)
4	5270	9	1	333	1	5562.0, 5439.0, 5634.0, 5348.0, 5683.0, 5592.0, 5580.0, 5434.0, 5700.0, 5491.0, 5552.0, 5528.0, 5711.0, 5276.0, 5522.0, 5406.0, 5640.0, 5532.0, 5590.0, 5451.0, 5380.0, 5658.0, 5525.0, 5261.0, 5523.0, 5721.0, 5483.0, 5706.0, 5496.0, 5625.0, 5459.0, 5477.0, 5344.0, 5547.0, 5489.0, 5319.0, 5534.0, 5579.0, 5475.0, 5429.0, 5385.0, 5585.0, 5371.0, 5445.0, 5450.0, 5364.0, 5649.0, 5503.0, 5599.0, 5259.0, 5277.0, 5363.0, 5293.0, 5417.0, 5616.0, 5677.0, 5720.0, 5297.0, 5310.0, 5437.0, 5367.0, 5420.0, 5303.0, 5494.0, 5292.0, 5613.0, 5425.0, 5631.0, 5400.0, 5661.0, 5300.0, 5356.0, 5379.0, 5269.0, 5418.0, 5497.0, 5394.0, 5627.0, 5722.0, 5626.0, 5368.0, 5723.0, 5442.0, 5411.0, 5251.0, 5703.0, 5620.0, 5414.0, 5671.0, 5570.0, 5424.0, 5514.0, 5538.0, 5290.0, 5646.0, 5298.0, 5685.0, 5696.0, 5501.0, 5323.0 (number of hits: 8)
5	5270	9	1	333	1	5639.0, 5691.0, 5705.0, 5329.0, 5544.0, 5390.0, 5339.0, 5264.0, 5448.0, 5525.0, 5487.0, 5717.0, 5536.0, 5317.0, 5440.0, 5494.0, 5627.0, 5522.0, 5707.0, 5554.0, 5296.0, 5715.0, 5564.0, 5307.0, 5590.0, 5680.0, 5454.0, 5645.0, 5585.0, 5635.0, 5259.0, 5493.0, 5683.0, 5484.0, 5560.0, 5475.0, 5400.0, 5605.0, 5568.0, 5488.0, 5718.0, 5251.0, 5363.0, 5433.0, 5674.0, 5514.0, 5624.0, 5517.0, 5256.0, 5519.0, 5281.0, 5270.0, 5388.0, 5372.0, 5647.0, 5534.0, 5305.0, 5503.0, 5616.0, 5446.0, 5555.0, 5346.0, 5310.0, 5306.0, 5567.0, 5596.0, 5672.0, 5375.0, 5640.0, 5542.0, 5558.0, 5371.0, 5435.0, 5633.0, 5572.0, 5540.0, 5660.0, 5423.0, 5628.0, 5437.0, 5366.0, 5459.0, 5497.0, 5651.0, 5458.0, 5606.0, 5527.0, 5328.0, 5667.0, 5663.0, 5376.0, 5313.0, 5262.0, 5391.0, 5461.0, 5463.0, 5422.0, 5713.0, 5432.0, 5442.0 (number of hits: 6)
6	5270	9	1	333	1	5399.0, 5550.0, 5648.0, 5493.0, 5395.0,

						5426.0, 5439.0, 5610.0, 5352.0, 5331.0, 5381.0, 5413.0, 5697.0, 5532.0, 5635.0, 5300.0, 5386.0, 5703.0, 5503.0, 5380.0, 5326.0, 5676.0, 5276.0, 5374.0, 5327.0, 5317.0, 5633.0, 5583.0, 5576.0, 5302.0, 5273.0, 5401.0, 5449.0, 5502.0, 5628.0, 5623.0, 5646.0, 5659.0, 5267.0, 5696.0, 5334.0, 5465.0, 5305.0, 5559.0, 5260.0, 5553.0, 5256.0, 5554.0, 5504.0, 5525.0, 5603.0, 5384.0, 5551.0, 5508.0, 5540.0, 5494.0, 5359.0, 5717.0, 5634.0, 5467.0, 5548.0, 5662.0, 5420.0, 5526.0, 5675.0, 5669.0, 5574.0, 5571.0, 5328.0, 5342.0, 5683.0, 5549.0, 5682.0, 5568.0, 5552.0, 5346.0, 5621.0, 5695.0, 5462.0, 5615.0, 5698.0, 5641.0, 5294.0, 5612.0, 5594.0, 5341.0, 5461.0, 5271.0, 5584.0, 5388.0, 5708.0, 5258.0, 5406.0, 5282.0, 5333.0, 5281.0, 5371.0, 5631.0, 5652.0, 5453.0 (number of hits: 4)
7	5270	9	1	333	1	5543.0, 5601.0, 5429.0, 5309.0, 5397.0, 5294.0, 5715.0, 5401.0, 5479.0, 5322.0, 5303.0, 5473.0, 5686.0, 5398.0, 5312.0, 5586.0, 5510.0, 5556.0, 5361.0, 5412.0, 5268.0, 5329.0, 5615.0, 5433.0, 5571.0, 5396.0, 5463.0, 5651.0, 5508.0, 5385.0, 5459.0, 5561.0, 5461.0, 5394.0, 5574.0, 5490.0, 5383.0, 5713.0, 5263.0, 5316.0, 5674.0, 5547.0, 5272.0, 5639.0, 5688.0, 5577.0, 5656.0, 5565.0, 5299.0, 5287.0, 5348.0, 5628.0, 5442.0, 5338.0, 5696.0, 5706.0, 5600.0, 5253.0, 5335.0, 5296.0, 5549.0, 5448.0, 5538.0, 5273.0, 5546.0, 5693.0, 5711.0, 5332.0, 5541.0, 5467.0, 5290.0, 5422.0, 5431.0, 5336.0, 5505.0, 5507.0, 5425.0, 5652.0, 5564.0, 5609.0, 5636.0, 5374.0, 5305.0, 5579.0, 5403.0, 5356.0, 5337.0, 5352.0, 5330.0, 5684.0, 5567.0, 5698.0, 5451.0, 5709.0, 5720.0, 5428.0, 5501.0, 5324.0, 5653.0, 5666.0 (number of hits: 9)
8	5270	9	1	333	1	5637.0, 5659.0, 5331.0, 5530.0, 5622.0, 5429.0, 5596.0, 5350.0, 5707.0, 5251.0, 5548.0, 5620.0, 5316.0, 5587.0, 5423.0, 5307.0, 5656.0, 5658.0, 5568.0, 5717.0, 5625.0, 5695.0, 5458.0, 5353.0, 5584.0, 5701.0, 5422.0, 5440.0, 5583.0, 5678.0, 5349.0, 5475.0, 5384.0, 5504.0, 5673.0, 5683.0, 5311.0, 5623.0, 5283.0, 5290.0, 5410.0, 5317.0, 5455.0, 5614.0, 5589.0, 5571.0, 5364.0, 5624.0, 5511.0, 5529.0, 5677.0, 5572.0, 5340.0, 5715.0, 5414.0, 5498.0, 5590.0, 5665.0, 5402.0, 5381.0, 5483.0, 5389.0, 5294.0, 5645.0, 5579.0, 5322.0, 5335.0, 5536.0, 5382.0, 5619.0, 5606.0, 5633.0, 5553.0, 5709.0, 5697.0,

						5670.0, 5323.0, 5696.0, 5374.0, 5575.0, 5287.0, 5356.0, 5406.0, 5631.0, 5630.0, 5291.0, 5303.0, 5355.0, 5650.0, 5397.0, 5586.0, 5256.0, 5700.0, 5597.0, 5562.0, 5490.0, 5603.0, 5398.0, 5394.0, 5626.0 (number of hits: 7)
9	5270	9	1	333	1	5548.0, 5516.0, 5602.0, 5401.0, 5265.0, 5479.0, 5569.0, 5566.0, 5695.0, 5711.0, 5378.0, 5587.0, 5441.0, 5450.0, 5319.0, 5549.0, 5680.0, 5546.0, 5407.0, 5420.0, 5649.0, 5279.0, 5722.0, 5270.0, 5357.0, 5563.0, 5543.0, 5418.0, 5274.0, 5539.0, 5267.0, 5311.0, 5283.0, 5277.0, 5594.0, 5395.0, 5488.0, 5445.0, 5288.0, 5693.0, 5348.0, 5638.0, 5595.0, 5603.0, 5324.0, 5417.0, 5273.0, 5525.0, 5423.0, 5323.0, 5586.0, 5322.0, 5608.0, 5710.0, 5466.0, 5440.0, 5713.0, 5564.0, 5660.0, 5692.0, 5470.0, 5721.0, 5453.0, 5579.0, 5703.0, 5643.0, 5337.0, 5645.0, 5250.0, 5396.0, 5421.0, 5699.0, 5375.0, 5444.0, 5350.0, 5484.0, 5307.0, 5380.0, 5696.0, 5287.0, 5330.0, 5719.0, 5259.0, 5275.0, 5538.0, 5550.0, 5406.0, 5715.0, 5568.0, 5544.0, 5448.0, 5296.0, 5360.0, 5376.0, 5661.0, 5635.0, 5509.0, 5597.0, 5562.0, 5365.0 (number of hits: 5)
10	5270	9	1	333	1	5584.0, 5382.0, 5652.0, 5286.0, 5384.0, 5295.0, 5568.0, 5617.0, 5250.0, 5406.0, 5446.0, 5283.0, 5712.0, 5579.0, 5289.0, 5333.0, 5601.0, 5428.0, 5336.0, 5299.0, 5290.0, 5550.0, 5322.0, 5503.0, 5280.0, 5414.0, 5350.0, 5646.0, 5723.0, 5458.0, 5696.0, 5626.0, 5323.0, 5632.0, 5580.0, 5345.0, 5365.0, 5566.0, 5660.0, 5294.0, 5598.0, 5466.0, 5392.0, 5589.0, 5561.0, 5594.0, 5491.0, 5688.0, 5658.0, 5671.0, 5255.0, 5369.0, 5374.0, 5271.0, 5524.0, 5462.0, 5309.0, 5613.0, 5680.0, 5473.0, 5563.0, 5457.0, 5445.0, 5547.0, 5624.0, 5661.0, 5312.0, 5647.0, 5300.0, 5488.0, 5605.0, 5474.0, 5357.0, 5565.0, 5534.0, 5542.0, 5540.0, 5296.0, 5478.0, 5520.0, 5526.0, 5415.0, 5452.0, 5518.0, 5718.0, 5325.0, 5557.0, 5442.0, 5662.0, 5401.0, 5267.0, 5709.0, 5316.0, 5396.0, 5308.0, 5405.0, 5720.0, 5675.0, 5602.0, 5359.0 (number of hits: 11)
11	5270	9	1	333	1	5250.0, 5468.0, 5542.0, 5636.0, 5266.0, 5410.0, 5441.0, 5297.0, 5325.0, 5383.0, 5257.0, 5470.0, 5673.0, 5353.0, 5393.0, 5303.0, 5488.0, 5455.0, 5359.0, 5654.0, 5610.0, 5371.0, 5606.0, 5252.0, 5551.0, 5475.0, 5564.0, 5619.0, 5298.0, 5340.0, 5464.0, 5615.0, 5482.0, 5511.0, 5291.0, 5477.0, 5657.0, 5666.0, 5607.0, 5401.0,

						5345.0, 5646.0, 5534.0, 5419.0, 5524.0, 5301.0, 5268.0, 5718.0, 5387.0, 5390.0, 5637.0, 5382.0, 5538.0, 5495.0, 5533.0, 5286.0, 5480.0, 5672.0, 5392.0, 5295.0, 5258.0, 5552.0, 5693.0, 5537.0, 5616.0, 5692.0, 5691.0, 5558.0, 5582.0, 5279.0, 5395.0, 5638.0, 5333.0, 5614.0, 5609.0, 5278.0, 5681.0, 5287.0, 5528.0, 5445.0, 5485.0, 5328.0, 5362.0, 5623.0, 5622.0, 5454.0, 5603.0, 5451.0, 5420.0, 5276.0, 5302.0, 5608.0, 5532.0, 5723.0, 5408.0, 5625.0, 5334.0, 5676.0, 5448.0, 5271.0 (number of hits: 9)
12	5270	9	1	333	1	5275.0, 5269.0, 5667.0, 5411.0, 5437.0, 5557.0, 5463.0, 5567.0, 5311.0, 5267.0, 5466.0, 5256.0, 5415.0, 5602.0, 5253.0, 5426.0, 5546.0, 5442.0, 5709.0, 5386.0, 5457.0, 5478.0, 5678.0, 5570.0, 5533.0, 5538.0, 5560.0, 5504.0, 5649.0, 5580.0, 5542.0, 5404.0, 5355.0, 5549.0, 5285.0, 5717.0, 5364.0, 5440.0, 5356.0, 5516.0, 5479.0, 5579.0, 5310.0, 5688.0, 5493.0, 5704.0, 5611.0, 5262.0, 5276.0, 5263.0, 5598.0, 5456.0, 5377.0, 5410.0, 5302.0, 5530.0, 5551.0, 5635.0, 5697.0, 5679.0, 5409.0, 5429.0, 5537.0, 5482.0, 5652.0, 5421.0, 5328.0, 5289.0, 5625.0, 5689.0, 5686.0, 5314.0, 5568.0, 5640.0, 5618.0, 5282.0, 5420.0, 5573.0, 5506.0, 5315.0, 5599.0, 5430.0, 5552.0, 5406.0, 5705.0, 5468.0, 5593.0, 5335.0, 5334.0, 5647.0, 5391.0, 5361.0, 5515.0, 5434.0, 5578.0, 5631.0, 5603.0, 5636.0, 5657.0, 5659.0 (number of hits: 6)
13	5270	9	1	333	1	5646.0, 5548.0, 5495.0, 5507.0, 5326.0, 5521.0, 5464.0, 5523.0, 5564.0, 5417.0, 5355.0, 5490.0, 5626.0, 5278.0, 5318.0, 5615.0, 5659.0, 5442.0, 5570.0, 5497.0, 5636.0, 5585.0, 5712.0, 5276.0, 5358.0, 5696.0, 5702.0, 5321.0, 5280.0, 5419.0, 5427.0, 5461.0, 5558.0, 5694.0, 5383.0, 5413.0, 5322.0, 5526.0, 5539.0, 5426.0, 5269.0, 5635.0, 5724.0, 5621.0, 5663.0, 5401.0, 5430.0, 5273.0, 5414.0, 5695.0, 5445.0, 5259.0, 5651.0, 5692.0, 5710.0, 5679.0, 5528.0, 5363.0, 5257.0, 5255.0, 5722.0, 5524.0, 5655.0, 5628.0, 5557.0, 5657.0, 5319.0, 5305.0, 5454.0, 5360.0, 5536.0, 5572.0, 5313.0, 5666.0, 5399.0, 5362.0, 5653.0, 5467.0, 5468.0, 5682.0, 5698.0, 5466.0, 5357.0, 5690.0, 5652.0, 5595.0, 5714.0, 5603.0, 5578.0, 5674.0, 5266.0, 5504.0, 5664.0, 5473.0, 5486.0, 5382.0, 5376.0, 5671.0, 5470.0, 5404.0 (number of hits: 2)
14	5270	9	1	333	1	5318.0, 5481.0, 5658.0, 5336.0, 5447.0,

						5713.0, 5440.0, 5268.0, 5449.0, 5259.0, 5264.0, 5683.0, 5719.0, 5598.0, 5681.0, 5416.0, 5505.0, 5337.0, 5398.0, 5273.0, 5592.0, 5643.0, 5369.0, 5570.0, 5311.0, 5448.0, 5297.0, 5653.0, 5450.0, 5332.0, 5584.0, 5326.0, 5525.0, 5563.0, 5511.0, 5299.0, 5458.0, 5614.0, 5323.0, 5531.0, 5698.0, 5283.0, 5343.0, 5629.0, 5497.0, 5554.0, 5708.0, 5594.0, 5528.0, 5355.0, 5537.0, 5559.0, 5501.0, 5612.0, 5388.0, 5671.0, 5591.0, 5271.0, 5513.0, 5340.0, 5252.0, 5532.0, 5364.0, 5484.0, 5565.0, 5588.0, 5722.0, 5621.0, 5585.0, 5402.0, 5488.0, 5672.0, 5586.0, 5434.0, 5685.0, 5631.0, 5344.0, 5618.0, 5276.0, 5395.0, 5704.0, 5603.0, 5520.0, 5432.0, 5651.0, 5663.0, 5303.0, 5706.0, 5433.0, 5553.0, 5417.0, 5604.0, 5535.0, 5550.0, 5463.0, 5487.0, 5555.0, 5472.0, 5325.0, 5548.0 (number of hits: 4)
15	5270	9	1	333	1	5374.0, 5505.0, 5615.0, 5455.0, 5665.0, 5629.0, 5456.0, 5400.0, 5503.0, 5525.0, 5527.0, 5296.0, 5577.0, 5301.0, 5485.0, 5364.0, 5654.0, 5276.0, 5723.0, 5708.0, 5295.0, 5367.0, 5604.0, 5688.0, 5475.0, 5626.0, 5483.0, 5257.0, 5282.0, 5450.0, 5518.0, 5701.0, 5254.0, 5460.0, 5502.0, 5304.0, 5452.0, 5581.0, 5353.0, 5578.0, 5297.0, 5566.0, 5580.0, 5259.0, 5711.0, 5307.0, 5318.0, 5679.0, 5563.0, 5337.0, 5312.0, 5602.0, 5334.0, 5382.0, 5628.0, 5421.0, 5716.0, 5685.0, 5639.0, 5444.0, 5438.0, 5565.0, 5648.0, 5714.0, 5443.0, 5507.0, 5471.0, 5562.0, 5330.0, 5593.0, 5585.0, 5395.0, 5260.0, 5256.0, 5255.0, 5536.0, 5321.0, 5675.0, 5671.0, 5719.0, 5289.0, 5596.0, 5341.0, 5357.0, 5346.0, 5311.0, 5317.0, 5320.0, 5573.0, 5545.0, 5576.0, 5441.0, 5560.0, 5324.0, 5472.0, 5265.0, 5657.0, 5403.0, 5637.0, 5309.0 (number of hits: 10)
16	5270	9	1	333	1	5301.0, 5295.0, 5437.0, 5306.0, 5388.0, 5682.0, 5591.0, 5558.0, 5550.0, 5428.0, 5669.0, 5323.0, 5562.0, 5673.0, 5385.0, 5346.0, 5677.0, 5400.0, 5650.0, 5718.0, 5544.0, 5561.0, 5569.0, 5523.0, 5408.0, 5403.0, 5308.0, 5333.0, 5425.0, 5290.0, 5493.0, 5258.0, 5552.0, 5348.0, 5378.0, 5624.0, 5542.0, 5636.0, 5486.0, 5661.0, 5463.0, 5382.0, 5336.0, 5410.0, 5670.0, 5481.0, 5712.0, 5343.0, 5475.0, 5310.0, 5601.0, 5461.0, 5577.0, 5571.0, 5394.0, 5691.0, 5460.0, 5271.0, 5487.0, 5256.0, 5361.0, 5406.0, 5349.0, 5414.0, 5339.0, 5488.0, 5620.0, 5263.0, 5393.0, 5660.0, 5319.0, 5708.0, 5289.0, 5407.0, 5567.0,

						5706.0, 5568.0, 5553.0, 5694.0, 5356.0, 5342.0, 5326.0, 5649.0, 5665.0, 5505.0, 5340.0, 5616.0, 5710.0, 5302.0, 5420.0, 5541.0, 5719.0, 5335.0, 5304.0, 5499.0, 5593.0, 5297.0, 5383.0, 5614.0, 5292.0 (number of hits: 11)
17	5270	9	1	333	1	5406.0, 5577.0, 5453.0, 5447.0, 5395.0, 5634.0, 5538.0, 5260.0, 5380.0, 5277.0, 5308.0, 5251.0, 5388.0, 5258.0, 5711.0, 5502.0, 5274.0, 5540.0, 5436.0, 5583.0, 5438.0, 5709.0, 5455.0, 5393.0, 5570.0, 5479.0, 5522.0, 5351.0, 5369.0, 5386.0, 5531.0, 5299.0, 5691.0, 5643.0, 5618.0, 5715.0, 5344.0, 5714.0, 5564.0, 5350.0, 5723.0, 5676.0, 5629.0, 5523.0, 5672.0, 5671.0, 5554.0, 5413.0, 5320.0, 5381.0, 5300.0, 5418.0, 5544.0, 5255.0, 5512.0, 5558.0, 5312.0, 5524.0, 5686.0, 5650.0, 5272.0, 5439.0, 5614.0, 5568.0, 5252.0, 5302.0, 5704.0, 5445.0, 5624.0, 5633.0, 5563.0, 5417.0, 5565.0, 5366.0, 5684.0, 5617.0, 5576.0, 5575.0, 5253.0, 5630.0, 5669.0, 5628.0, 5298.0, 5574.0, 5431.0, 5301.0, 5597.0, 5682.0, 5644.0, 5478.0, 5315.0, 5474.0, 5492.0, 5578.0, 5632.0, 5444.0, 5425.0, 5562.0, 5254.0, 5313.0 (number of hits: 8)
18	5270	9	1	333	1	5255.0, 5670.0, 5385.0, 5602.0, 5699.0, 5709.0, 5434.0, 5671.0, 5569.0, 5336.0, 5632.0, 5337.0, 5366.0, 5557.0, 5651.0, 5642.0, 5526.0, 5715.0, 5317.0, 5713.0, 5541.0, 5263.0, 5409.0, 5371.0, 5559.0, 5393.0, 5350.0, 5662.0, 5630.0, 5333.0, 5656.0, 5422.0, 5548.0, 5667.0, 5436.0, 5588.0, 5622.0, 5577.0, 5599.0, 5464.0, 5517.0, 5703.0, 5674.0, 5706.0, 5363.0, 5389.0, 5603.0, 5539.0, 5280.0, 5274.0, 5387.0, 5585.0, 5658.0, 5649.0, 5560.0, 5610.0, 5427.0, 5556.0, 5510.0, 5564.0, 5527.0, 5271.0, 5695.0, 5428.0, 5454.0, 5286.0, 5485.0, 5595.0, 5264.0, 5329.0, 5643.0, 5705.0, 5565.0, 5273.0, 5430.0, 5579.0, 5701.0, 5636.0, 5290.0, 5386.0, 5545.0, 5566.0, 5639.0, 5480.0, 5567.0, 5613.0, 5650.0, 5619.0, 5717.0, 5437.0, 5690.0, 5484.0, 5520.0, 5507.0, 5675.0, 5419.0, 5555.0, 5287.0, 5605.0, 5669.0 (number of hits: 3)
19	5270	9	1	333	1	5590.0, 5252.0, 5417.0, 5394.0, 5484.0, 5368.0, 5309.0, 5338.0, 5347.0, 5641.0, 5616.0, 5664.0, 5588.0, 5420.0, 5582.0, 5475.0, 5598.0, 5303.0, 5579.0, 5409.0, 5300.0, 5575.0, 5671.0, 5614.0, 5496.0, 5320.0, 5702.0, 5502.0, 5358.0, 5489.0, 5431.0, 5562.0, 5662.0, 5373.0, 5311.0, 5699.0, 5282.0, 5263.0, 5413.0, 5271.0,

						5390.0, 5342.0, 5269.0, 5716.0, 5355.0, 5517.0, 5366.0, 5705.0, 5307.0, 5436.0, 5667.0, 5604.0, 5488.0, 5507.0, 5434.0, 5646.0, 5427.0, 5264.0, 5473.0, 5573.0, 5559.0, 5424.0, 5344.0, 5295.0, 5412.0, 5449.0, 5720.0, 5639.0, 5536.0, 5469.0, 5620.0, 5518.0, 5704.0, 5326.0, 5331.0, 5595.0, 5712.0, 5703.0, 5378.0, 5343.0, 5707.0, 5637.0, 5410.0, 5433.0, 5686.0, 5571.0, 5631.0, 5308.0, 5490.0, 5544.0, 5673.0, 5694.0, 5462.0, 5318.0, 5552.0, 5591.0, 5316.0, 5438.0, 5640.0, 5339.0 (number of hits: 7)
20	5270	9	1	333	1	5337.0, 5316.0, 5487.0, 5705.0, 5492.0, 5435.0, 5341.0, 5695.0, 5661.0, 5499.0, 5522.0, 5573.0, 5450.0, 5324.0, 5292.0, 5404.0, 5392.0, 5516.0, 5641.0, 5408.0, 5272.0, 5279.0, 5431.0, 5717.0, 5419.0, 5543.0, 5630.0, 5277.0, 5290.0, 5681.0, 5353.0, 5553.0, 5501.0, 5430.0, 5457.0, 5622.0, 5456.0, 5537.0, 5479.0, 5709.0, 5690.0, 5524.0, 5313.0, 5393.0, 5385.0, 5607.0, 5646.0, 5466.0, 5688.0, 5563.0, 5305.0, 5497.0, 5302.0, 5256.0, 5417.0, 5498.0, 5465.0, 5289.0, 5494.0, 5632.0, 5420.0, 5589.0, 5514.0, 5414.0, 5503.0, 5310.0, 5634.0, 5532.0, 5716.0, 5723.0, 5599.0, 5373.0, 5570.0, 5713.0, 5696.0, 5645.0, 5467.0, 5259.0, 5323.0, 5377.0, 5336.0, 5597.0, 5424.0, 5471.0, 5453.0, 5580.0, 5446.0, 5451.0, 5390.0, 5413.0, 5462.0, 5291.0, 5380.0, 5375.0, 5627.0, 5505.0, 5677.0, 5579.0, 5618.0, 5319.0 (number of hits: 8)
21	5270	9	1	333	1	5385.0, 5639.0, 5505.0, 5417.0, 5465.0, 5447.0, 5394.0, 5307.0, 5270.0, 5671.0, 5415.0, 5563.0, 5252.0, 5529.0, 5646.0, 5330.0, 5712.0, 5339.0, 5489.0, 5457.0, 5585.0, 5347.0, 5419.0, 5627.0, 5364.0, 5620.0, 5636.0, 5498.0, 5484.0, 5605.0, 5254.0, 5579.0, 5472.0, 5551.0, 5598.0, 5486.0, 5540.0, 5609.0, 5693.0, 5488.0, 5509.0, 5398.0, 5446.0, 5621.0, 5560.0, 5436.0, 5532.0, 5357.0, 5470.0, 5694.0, 5661.0, 5273.0, 5538.0, 5378.0, 5311.0, 5659.0, 5360.0, 5704.0, 5516.0, 5616.0, 5454.0, 5313.0, 5404.0, 5352.0, 5552.0, 5441.0, 5342.0, 5615.0, 5343.0, 5467.0, 5399.0, 5304.0, 5439.0, 5654.0, 5557.0, 5691.0, 5425.0, 5559.0, 5525.0, 5377.0, 5703.0, 5631.0, 5528.0, 5317.0, 5553.0, 5257.0, 5648.0, 5514.0, 5274.0, 5426.0, 5599.0, 5449.0, 5389.0, 5569.0, 5546.0, 5504.0, 5319.0, 5574.0, 5491.0, 5373.0 (number of hits: 4)
22	5270	9	1	333	1	5672.0, 5429.0, 5582.0, 5422.0, 5505.0,

						5588.0, 5646.0, 5399.0, 5604.0, 5389.0, 5683.0, 5291.0, 5430.0, 5319.0, 5666.0, 5421.0, 5702.0, 5360.0, 5453.0, 5624.0, 5516.0, 5573.0, 5704.0, 5538.0, 5359.0, 5456.0, 5644.0, 5466.0, 5602.0, 5560.0, 5545.0, 5491.0, 5518.0, 5298.0, 5537.0, 5322.0, 5460.0, 5365.0, 5615.0, 5376.0, 5643.0, 5527.0, 5414.0, 5632.0, 5340.0, 5610.0, 5448.0, 5620.0, 5268.0, 5323.0, 5583.0, 5403.0, 5622.0, 5380.0, 5636.0, 5592.0, 5629.0, 5416.0, 5305.0, 5289.0, 5304.0, 5486.0, 5434.0, 5663.0, 5506.0, 5616.0, 5442.0, 5474.0, 5688.0, 5686.0, 5585.0, 5264.0, 5670.0, 5715.0, 5601.0, 5542.0, 5503.0, 5625.0, 5382.0, 5352.0, 5326.0, 5517.0, 5557.0, 5547.0, 5307.0, 5530.0, 5327.0, 5687.0, 5484.0, 5496.0, 5543.0, 5425.0, 5406.0, 5710.0, 5570.0, 5665.0, 5374.0, 5446.0, 5528.0, 5358.0 (number of hits: 6)
23	5270	9	1	333	1	5295.0, 5339.0, 5384.0, 5335.0, 5452.0, 5354.0, 5495.0, 5721.0, 5264.0, 5658.0, 5414.0, 5546.0, 5357.0, 5522.0, 5691.0, 5565.0, 5579.0, 5639.0, 5644.0, 5686.0, 5555.0, 5328.0, 5440.0, 5279.0, 5550.0, 5292.0, 5425.0, 5680.0, 5666.0, 5649.0, 5314.0, 5578.0, 5353.0, 5609.0, 5560.0, 5529.0, 5615.0, 5508.0, 5439.0, 5668.0, 5435.0, 5589.0, 5675.0, 5612.0, 5563.0, 5268.0, 5571.0, 5472.0, 5700.0, 5304.0, 5413.0, 5499.0, 5272.0, 5566.0, 5513.0, 5400.0, 5716.0, 5539.0, 5405.0, 5509.0, 5692.0, 5701.0, 5449.0, 5377.0, 5441.0, 5318.0, 5601.0, 5366.0, 5352.0, 5572.0, 5474.0, 5466.0, 5573.0, 5637.0, 5355.0, 5309.0, 5614.0, 5545.0, 5380.0, 5253.0, 5416.0, 5356.0, 5638.0, 5704.0, 5642.0, 5256.0, 5606.0, 5291.0, 5641.0, 5584.0, 5257.0, 5712.0, 5271.0, 5585.0, 5383.0, 5317.0, 5422.0, 5587.0, 5679.0, 5464.0 (number of hits: 6)
24	5270	9	1	333	1	5601.0, 5677.0, 5264.0, 5416.0, 5645.0, 5714.0, 5332.0, 5608.0, 5547.0, 5251.0, 5612.0, 5564.0, 5399.0, 5639.0, 5513.0, 5580.0, 5271.0, 5633.0, 5536.0, 5352.0, 5706.0, 5278.0, 5479.0, 5408.0, 5318.0, 5587.0, 5384.0, 5361.0, 5524.0, 5515.0, 5708.0, 5525.0, 5385.0, 5586.0, 5685.0, 5423.0, 5541.0, 5400.0, 5277.0, 5538.0, 5494.0, 5293.0, 5573.0, 5626.0, 5465.0, 5499.0, 5588.0, 5326.0, 5712.0, 5339.0, 5323.0, 5262.0, 5589.0, 5270.0, 5598.0, 5454.0, 5367.0, 5425.0, 5526.0, 5301.0, 5593.0, 5268.0, 5356.0, 5254.0, 5502.0, 5711.0, 5470.0, 5296.0, 5448.0, 5348.0, 5523.0, 5583.0, 5305.0, 5290.0, 5661.0,

						5319.0, 5553.0, 5364.0, 5713.0, 5259.0, 5640.0, 5519.0, 5484.0, 5642.0, 5602.0, 5686.0, 5522.0, 5257.0, 5506.0, 5563.0, 5302.0, 5379.0, 5722.0, 5684.0, 5398.0, 5395.0, 5662.0, 5666.0, 5353.0, 5325.0 (number of hits: 6)
25	5270	9	1	333	1	5623.0, 5393.0, 5544.0, 5331.0, 5638.0, 5298.0, 5447.0, 5589.0, 5350.0, 5432.0, 5512.0, 5300.0, 5475.0, 5426.0, 5251.0, 5627.0, 5653.0, 5348.0, 5658.0, 5505.0, 5678.0, 5548.0, 5279.0, 5696.0, 5471.0, 5379.0, 5404.0, 5677.0, 5593.0, 5319.0, 5665.0, 5534.0, 5603.0, 5617.0, 5310.0, 5452.0, 5422.0, 5645.0, 5644.0, 5580.0, 5479.0, 5441.0, 5568.0, 5417.0, 5390.0, 5401.0, 5604.0, 5599.0, 5646.0, 5509.0, 5679.0, 5624.0, 5264.0, 5575.0, 5384.0, 5444.0, 5330.0, 5559.0, 5462.0, 5586.0, 5557.0, 5692.0, 5622.0, 5711.0, 5720.0, 5635.0, 5498.0, 5336.0, 5361.0, 5596.0, 5409.0, 5631.0, 5408.0, 5619.0, 5514.0, 5326.0, 5616.0, 5378.0, 5435.0, 5552.0, 5453.0, 5556.0, 5507.0, 5304.0, 5691.0, 5532.0, 5395.0, 5332.0, 5690.0, 5278.0, 5370.0, 5597.0, 5701.0, 5446.0, 5606.0, 5321.0, 5261.0, 5686.0, 5385.0, 5571.0 (number of hits: 4)
26	5270	9	1	333	1	5620.0, 5302.0, 5309.0, 5514.0, 5297.0, 5533.0, 5380.0, 5385.0, 5402.0, 5719.0, 5270.0, 5588.0, 5638.0, 5323.0, 5575.0, 5422.0, 5397.0, 5391.0, 5441.0, 5651.0, 5272.0, 5571.0, 5449.0, 5621.0, 5673.0, 5343.0, 5436.0, 5722.0, 5330.0, 5644.0, 5313.0, 5690.0, 5274.0, 5606.0, 5565.0, 5458.0, 5481.0, 5645.0, 5684.0, 5454.0, 5279.0, 5256.0, 5269.0, 5387.0, 5276.0, 5347.0, 5337.0, 5372.0, 5417.0, 5268.0, 5440.0, 5544.0, 5399.0, 5346.0, 5478.0, 5388.0, 5603.0, 5582.0, 5507.0, 5602.0, 5526.0, 5539.0, 5344.0, 5484.0, 5560.0, 5669.0, 5528.0, 5581.0, 5260.0, 5295.0, 5717.0, 5363.0, 5322.0, 5355.0, 5636.0, 5494.0, 5393.0, 5405.0, 5525.0, 5566.0, 5421.0, 5299.0, 5328.0, 5594.0, 5466.0, 5415.0, 5434.0, 5646.0, 5667.0, 5607.0, 5562.0, 5294.0, 5280.0, 5531.0, 5689.0, 5420.0, 5448.0, 5532.0, 5283.0, 5685.0 (number of hits: 7)
27	5270	9	1	333	1	5618.0, 5657.0, 5405.0, 5374.0, 5381.0, 5605.0, 5516.0, 5378.0, 5560.0, 5511.0, 5613.0, 5714.0, 5402.0, 5260.0, 5523.0, 5564.0, 5578.0, 5355.0, 5609.0, 5268.0, 5499.0, 5506.0, 5465.0, 5253.0, 5545.0, 5573.0, 5645.0, 5493.0, 5357.0, 5288.0, 5668.0, 5421.0, 5665.0, 5535.0, 5452.0, 5339.0, 5574.0, 5331.0, 5338.0, 5397.0,

						5713.0, 5606.0, 5720.0, 5329.0, 5411.0, 5620.0, 5351.0, 5484.0, 5639.0, 5703.0, 5536.0, 5616.0, 5420.0, 5395.0, 5699.0, 5340.0, 5454.0, 5715.0, 5352.0, 5497.0, 5510.0, 5481.0, 5716.0, 5448.0, 5403.0, 5698.0, 5507.0, 5622.0, 5308.0, 5542.0, 5305.0, 5393.0, 5424.0, 5386.0, 5456.0, 5368.0, 5568.0, 5408.0, 5681.0, 5700.0, 5263.0, 5293.0, 5334.0, 5435.0, 5689.0, 5385.0, 5721.0, 5346.0, 5526.0, 5373.0, 5724.0, 5399.0, 5369.0, 5559.0, 5638.0, 5591.0, 5426.0, 5546.0, 5400.0, 5257.0 (number of hits: 4)
28	5270	9	1	333	1	5613.0, 5384.0, 5671.0, 5449.0, 5650.0, 5255.0, 5367.0, 5452.0, 5572.0, 5712.0, 5425.0, 5348.0, 5392.0, 5649.0, 5511.0, 5515.0, 5615.0, 5268.0, 5470.0, 5601.0, 5434.0, 5697.0, 5300.0, 5335.0, 5523.0, 5661.0, 5509.0, 5543.0, 5612.0, 5442.0, 5707.0, 5605.0, 5696.0, 5277.0, 5683.0, 5388.0, 5282.0, 5531.0, 5721.0, 5261.0, 5387.0, 5490.0, 5451.0, 5456.0, 5577.0, 5505.0, 5481.0, 5517.0, 5520.0, 5691.0, 5464.0, 5252.0, 5473.0, 5395.0, 5418.0, 5462.0, 5506.0, 5288.0, 5720.0, 5534.0, 5398.0, 5603.0, 5337.0, 5479.0, 5302.0, 5610.0, 5423.0, 5441.0, 5450.0, 5271.0, 5417.0, 5590.0, 5608.0, 5645.0, 5483.0, 5629.0, 5678.0, 5625.0, 5372.0, 5383.0, 5333.0, 5280.0, 5644.0, 5689.0, 5324.0, 5453.0, 5438.0, 5396.0, 5393.0, 5355.0, 5607.0, 5663.0, 5546.0, 5636.0, 5672.0, 5375.0, 5278.0, 5257.0, 5651.0, 5478.0 (number of hits: 3)
29	5270	9	1	333	1	5367.0, 5252.0, 5639.0, 5448.0, 5344.0, 5365.0, 5582.0, 5503.0, 5416.0, 5494.0, 5602.0, 5649.0, 5377.0, 5678.0, 5296.0, 5389.0, 5261.0, 5625.0, 5569.0, 5553.0, 5716.0, 5653.0, 5443.0, 5277.0, 5658.0, 5294.0, 5326.0, 5609.0, 5516.0, 5670.0, 5380.0, 5460.0, 5704.0, 5526.0, 5339.0, 5591.0, 5577.0, 5370.0, 5478.0, 5282.0, 5297.0, 5514.0, 5599.0, 5372.0, 5368.0, 5618.0, 5541.0, 5292.0, 5465.0, 5371.0, 5338.0, 5611.0, 5398.0, 5479.0, 5476.0, 5535.0, 5396.0, 5341.0, 5549.0, 5327.0, 5543.0, 5532.0, 5654.0, 5358.0, 5717.0, 5301.0, 5585.0, 5504.0, 5317.0, 5287.0, 5278.0, 5426.0, 5640.0, 5712.0, 5663.0, 5256.0, 5483.0, 5451.0, 5345.0, 5333.0, 5518.0, 5540.0, 5674.0, 5283.0, 5363.0, 5703.0, 5661.0, 5551.0, 5337.0, 5493.0, 5310.0, 5721.0, 5628.0, 5406.0, 5270.0, 5290.0, 5508.0, 5415.0, 5694.0, 5643.0 (number of hits: 8)
30	5270	9	1	333	1	5398.0, 5360.0, 5260.0, 5318.0, 5625.0,

						5681.0, 5669.0, 5606.0, 5310.0, 5368.0, 5470.0, 5348.0, 5364.0, 5323.0, 5406.0, 5723.0, 5486.0, 5333.0, 5386.0, 5615.0, 5316.0, 5616.0, 5296.0, 5599.0, 5357.0, 5272.0, 5512.0, 5525.0, 5428.0, 5587.0, 5286.0, 5543.0, 5445.0, 5409.0, 5570.0, 5715.0, 5718.0, 5253.0, 5399.0, 5270.0, 5648.0, 5517.0, 5397.0, 5663.0, 5327.0, 5455.0, 5564.0, 5682.0, 5440.0, 5542.0, 5268.0, 5282.0, 5658.0, 5588.0, 5569.0, 5471.0, 5618.0, 5600.0, 5571.0, 5257.0, 5652.0, 5487.0, 5472.0, 5369.0, 5417.0, 5692.0, 5633.0, 5341.0, 5288.0, 5531.0, 5684.0, 5576.0, 5258.0, 5598.0, 5672.0, 5619.0, 5380.0, 5427.0, 5363.0, 5454.0, 5366.0, 5430.0, 5475.0, 5584.0, 5581.0, 5498.0, 5568.0, 5665.0, 5250.0, 5328.0, 5256.0, 5620.0, 5555.0, 5424.0, 5660.0, 5371.0, 5607.0, 5408.0, 5657.0, 5481.0 (number of hits: 4)
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5550 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	90.0 %	60%	Pass
Type 2	30	93.3 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate (Type1 to 4)	120	93.325 %	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	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	0
13	5550	18	1	1428	0
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: 90.0 % (>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	4.5	224	1
2	5550	23	2.7	204	1
3	5550	27	1.9	191	1
4	5550	29	2.3	185	1
5	5550	26	1	170	0
6	5550	25	3.8	224	1
7	5550	25	5	180	1
8	5550	25	3.7	206	1
9	5550	27	2.6	188	1
10	5550	23	2	189	1
11	5550	28	2.3	166	1
12	5550	24	4.8	156	1
13	5550	24	2.6	150	1
14	5550	25	2.2	195	0
15	5550	28	1.1	193	1
16	5550	26	3.4	210	1
17	5550	25	2.4	214	1
18	5550	26	2.9	158	1
19	5550	26	4	184	1
20	5550	23	3.3	157	1
21	5550	29	3.4	185	1
22	5550	26	4.6	157	1
23	5550	23	3.2	183	1
24	5550	25	4.6	178	1
25	5550	23	2.6	191	1
26	5550	24	2.6	214	1
27	5550	25	1.9	191	1
28	5550	29	3.2	202	1
29	5550	26	4.4	152	1
30	5550	24	4.7	213	1
Detection Percentage: 93.3% (>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	16	7.2	272	1
2	5550	18	6	451	1
3	5550	18	9.4	283	1
4	5550	16	7.7	455	0
5	5550	18	6.4	451	1
6	5550	16	8.3	359	1
7	5550	17	8.3	241	1
8	5550	16	7.1	273	1
9	5550	17	6.6	500	1
10	5550	18	7.3	224	1
11	5550	18	6.9	499	1
12	5550	17	7.4	225	1
13	5550	16	6.2	400	1
14	5550	18	8.9	401	1
15	5550	17	7.8	456	1
16	5550	16	6.4	251	1
17	5550	17	6.8	446	1
18	5550	18	7.7	350	1
19	5550	17	7.1	305	1
20	5550	16	7.5	364	1
21	5550	16	7.6	209	1
22	5550	16	7.7	470	1
23	5550	18	7.2	478	1
24	5550	16	7.2	347	1
25	5550	17	7.2	476	1
26	5550	18	6.5	257	1
27	5550	16	8	476	1
28	5550	16	7	274	1
29	5550	18	9.5	463	1
30	5550	16	8.3	443	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	5550	14	18.6	310	1
2	5550	15	16.5	456	1
3	5550	12	11.2	466	
4	5550	13	12	456	1
5	5550	14	11.2	346	1
6	5550	13	16	424	1
7	5550	15	16.7	493	1
8	5550	12	11.1	418	1
9	5550	15	19.8	481	1
10	5550	14	14.9	292	1
11	5550	15	12	301	1
12	5550	13	12.9	307	1
13	5550	12	18.1	467	1
14	5550	16	18.1	276	1
15	5550	15	18.9	441	1
16	5550	12	15.1	246	1
17	5550	13	19.2	415	1
18	5550	12	14.7	384	1
19	5550	14	16.6	213	1
20	5550	12	16.3	257	1
21	5550	13	11.6	222	1
22	5550	14	15.8	305	1
23	5550	12	14	295	1
24	5550	16	17.5	235	1
25	5550	16	17.7	301	1
26	5550	15	13.7	400	1
27	5550	12	18.6	471	
28	5550	14	19.8	392	1
29	5550	12	19.8	291	1
30	5550	15	18.5	285	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	96	1683	1689	0.449136	1
1	1	9	62.4			2.242603	
2	3	16	98.8	1619	1800	3.000452	
3	1	14	82			5.309616	
4	2	15	60.6	1890		6.616391	
5	1	15	65.5			7.10692	
6	3	7	62.6	1205	1495	8.230728	
7	1	8	57			10.646701	
8	3	9	71.2	1517	1323	10.86169	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	89.5	1476	1373	0.902561	1
1	2	13	82.2	1576		1.407207	
2	3	14	83.5	1418	1187	2.451303	
3	2	10	52.5	1220		3.407211	
4	2	10	60.3	1598		4.170242	
5	2	12	54.6	1064		5.491966	
6	2	7	69	1423		6.238391	
7	1	6	89.7			7.130364	
8	3	11	73.7	1530	1844	7.474797	
9	1	13	89.8			8.410702	
10	2	15	94.8	1656		10.110072	
11	1	11	99.1			10.538494	
12	2	18	78.8	1464		11.659939	

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	11	57.9	1513		0.136018	1
1	1	11	51.5			1.393123	
2	1	19	86.7			3.330513	
3	3	8	59.6	1722	1525	4.406355	
4	2	16	54	1481		5.428167	
5	2	12	96.3	1995		6.635595	
6	3	7	68.1	1397	1137	7.250791	
7	1	19	97.7			9.14988	
8	1	20	59.5			10.60988	
9	1	15	69.9			11.321039	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	94.2	1350	1734	0.291869	1
1	3	16	72.8	1157	1616	1.326149	
2	3	17	63.4	1773	1658	2.833064	
3	1	16	72.4			3.605133	
4	2	13	88.9	1239		4.936052	
5	1	6	53.2			6.012697	
6	2	17	93.5	1338		7.157991	
7	1	12	59.5			8.369927	
8	3	8	77.2	1403	1176	8.825406	
9	2	10	51.6	1809		10.112474	
10	2	8	65.5	1259		11.167841	

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	90.7	1258		0.286106	1
1	2	10	95.2	1428		0.768597	
2	1	15	97.2			2.086001	
3	2	6	58.9	1484		2.283676	
4	1	8	91.5			3.227005	
5	2	13	71.9	1361		3.62847	
6	1	13	66			4.879729	
7	3	9	61.1	1908	1432	5.08102	
8	2	16	99	1982		5.714303	
9	3	15	88.5	1832	1418	6.863264	
10	2	10	92.3	1584		7.435124	
11	3	13	91	1867	1040	8.312913	
12	1	17	70.6			9.161252	
13	1	10	89.5			9.866241	
14	2	8	89.9	1256		10.250024	
15	2	7	57.2	1345		10.867212	
16	1	18	55			11.325613	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	70.3			0.302279	1
1	1	9	98.3			1.609436	
2	1	19	75.9			2.736936	
3	3	12	65.8	1766	1204	4.01889	
4	2	11	55.1	1370		5.424995	
5	2	6	77.4	1190		5.56296	
6	2	13	91.5	1853		7.515862	
7	1	10	60.8			8.476948	
8	2	12	62.7	1448		9.690007	
9	3	16	99.5	1725	1486	10.645481	
10	1	13	61.3			11.830029	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	84	1877		0.611732	1
1	2	15	64.9	1436		1.089197	
2	3	16	50.9	1153	1569	1.860744	
3	1	14	84.3			3.076994	
4	2	7	75.9	1073		4.070204	
5	1	18	91.7			4.905469	
6	2	13	98	1163		5.987456	
7	2	19	51.4	1762		7.263321	
8	2	13	66.9	1198		7.838217	
9	2	20	78.9	1869		8.939882	
10	1	5	56.3			9.914439	
11	3	18	94.9	1838	1069	10.849518	
12	1	13	66.2			11.339809	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	54.5	1484		0.209032	1
1	2	14	79.4	1018		1.164294	
2	1	16	50.7			2.077363	
3	1	9	79.2			2.657337	
4	1	14	90.8			2.992152	
5	1	6	95.5			3.804799	
6	2	9	62.4	1964		4.281991	
7	3	8	74.8	1983	1053	5.12679	
8	1	8	60.2			6.162755	
9	2	7	96.5	1279		6.633837	
10	1	9	59.3			7.337782	
11	1	5	69.9			7.956906	
12	3	18	54.6	1945	1335	8.804274	
13	2	8	66	1220		9.705682	
14	3	10	53.6	1679	1395	9.959828	
15	2	12	52.3	1719		10.951795	
16	2	15	67.4	1347		11.762592	

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	11	61.3	1905		0.539572	1
1	2	9	54.8	1848		0.698681	
2	2	7	81.7	1222		1.58168	
3	2	10	88.5	1143		1.80707	
4	1	20	60.2			2.699419	
5	2	14	94.2	1933		3.133864	
6	2	9	52.3	1290		4.081915	
7	1	12	70			4.515958	
8	3	10	99.4	1455	1075	5.015827	
9	1	12	73.5			5.810937	
10	2	12	94.3	1556		6.140794	
11	3	14	90.3	1763	1389	6.941389	
12	1	20	67.3			7.536822	
13	2	15	57.1	1789		7.848144	
14	2	9	65.6	1538		8.586202	
15	2	6	53.8	1790		9.504066	
16	2	5	64.3	1683		10.101374	
17	2	16	78	1053		10.339104	
18	2	17	99.9	1108		11.060694	
19	2	8	54.4	1724		11.696715	

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	17	96	1167	1401	0.114244	1
1	1	9	93.8			2.260557	
2	3	13	68.1	1992	1043	2.605852	
3	2	8	87.7	1745		3.600643	
4	2	6	74.8	1453		5.748448	
5	3	16	50.9	1625	1998	6.654283	
6	2	17	68.9	1492		8.099373	
7	2	13	53.6	1328		8.528096	
8	2	15	73.5	1547		10.360116	
9	3	6	75.3	1423	1544	10.864693	

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	9	62	1476		0.676542	1
1	2	18	75.4	1560		1.180568	
2	1	6	99.5			1.88552	
3	3	9	71.2	1869	1322	2.359214	
4	1	18	86			3.173259	
5	1	20	97.9			4.077011	
6	2	15	62.4	1917		4.246996	
7	2	10	52.8	1350		5.216207	
8	3	19	58.3	1495	1383	6.205209	
9	3	7	55	1680	1486	6.634684	
10	2	7	72.3	1279		7.213192	
11	3	11	63	1175	1075	8.256613	
12	3	13	52	1775	1740	8.964714	
13	3	19	68.5	1447	1104	9.726164	
14	2	12	65.3	1869		10.173015	
15	2	5	73	1160		10.596367	
16	1	12	63.3			11.89744	

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	16	59.3	1339		0.043111	1
1	2	20	58.2	1804		1.39206	
2	2	7	90.7	1723		1.903214	
3	1	16	68.5			2.369791	
4	1	16	55.1			3.181741	
5	2	12	89.1	1863		4.053722	
6	2	6	66.1	1761		4.913128	
7	2	8	71.2	1696		5.365416	
8	3	20	89.8	1794	1928	6.183841	
9	3	14	50.8	1850	1835	7.455636	
10	2	18	52	1715		7.578451	
11	1	6	60.2			8.41099	
12	2	10	82.5	1293		9.575579	
13	3	13	53.3	1369	1415	10.211174	
14	2	5	54.9	1502		10.6093	
15	1	16	83.9			11.295513	

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	94.7	1324		0.215946	1
1	1	11	69.8			0.641707	
2	1	6	85.1			1.617003	
3	2	20	87	1304		2.309088	
4	2	6	95.2	1967		2.933264	
5	1	7	96.2			3.355215	
6	1	18	69.3			3.959722	
7	2	19	82.4	1696		4.732578	
8	3	15	70.2	1944	1552	5.366165	
9	2	11	92.1	1497		6.220611	
10	1	18	93.3			6.42015	
11	2	10	67.8	1663		7.386018	
12	3	20	75.4	1952	1927	8.184664	
13	2	8	72.1	1317		8.774035	
14	1	19	69.3			9.464909	
15	2	9	65.8	1604		9.815612	
16	2	15	53.5	1337		10.388572	
17	2	16	82.9	1018		11.170614	
18	1	17	53.5			11.534291	

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	15	71.4	1182		0.267773	1
1	2	18	82.9	1130		0.913281	
2	2	13	53.8	1743		1.465386	
3	3	18	73	1766	1674	1.982136	
4	2	12	98.8	1649		2.728066	
5	1	19	65.1			3.73637	
6	2	5	86.7	1736		4.190021	
7	1	10	79.6			4.545376	
8	3	16	95.9	1914	1012	5.458564	
9	2	18	56.6	1641		6.106629	
10	3	8	68.4	1111	1412	6.630843	
11	2	7	80.3	1481		7.221567	
12	2	7	82.9	1132		7.949792	
13	3	18	76.9	1005	1572	8.699394	
14	2	7	61.8	1526		9.044166	
15	3	10	50.1	1140	1263	9.695014	
16	1	16	85.8			10.573838	
17	2	9	57.3	1315		10.883352	
18	2	6	89.7	1520		11.372334	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	61.5			0.383701	1
1	2	8	51.6	1174		1.700635	
2	2	9	62.6	1982		2.697955	
3	2	10	70.2	1021		3.13245	
4	2	10	50.5	1742		3.779445	
5	2	17	51.3	1261		4.747261	
6	2	9	52.3	1558		6.041264	
7	1	7	63.9			7.346682	
8	2	19	83.7	1741		8.081529	
9	2	5	62.2	1545		8.560824	
10	1	17	94			9.261709	
11	2	6	58.7	1073		10.83471	
12	2	12	67.4	1429		11.581643	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	85.2			0.186947	1
1	2	15	88.8	1010		1.192103	
2	1	10	74			1.41465	
3	3	18	64.8	1591	1839	2.587723	
4	3	18	94.1	1167	1571	3.025694	
5	3	16	59.3	1736	1617	3.788325	
6	2	17	62.8	1565		4.38987	
7	3	9	96.6	1085	1333	4.802507	
8	2	15	93.5	1776		5.807108	
9	2	10	90.5	1499		6.232571	
10	2	19	55.5	1874		6.854487	
11	1	17	82.8			7.360056	
12	2	9	80.3	1646		8.359551	
13	2	10	80.4	1945		8.893026	
14	2	16	78.4	1783		9.978335	
15	1	16	80.7			10.539855	
16	2	17	98.2	1529		10.675234	
17	2	6	53.3	1784		11.456881	

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	14	90	1375		0.205401	1
1	2	14	74	1268		1.500686	
2	2	17	93.1	1665		2.385227	
3	2	7	95.6	1978		3.517038	
4	2	19	60.2	1785		4.212884	
5	1	18	75			5.035747	
6	2	8	67.9	1398		6.66934	
7	1	6	87.5			7.125948	
8	2	19	73.1	1114		8.622635	
9	2	6	70.8	1758		9.788002	
10	3	6	55	1974	1462	10.404962	
11	1	16	52.2			11.408945	

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	7	88.9			0.072359	1
1	2	11	62.4	1049		1.377195	
2	1	12	86.6			2.469679	
3	1	20	60.1			3.805695	
4	1	16	57.9			4.801934	
5	2	13	73.9	1413		7.11552	
6	2	6	92.5	1160		7.370903	
7	1	14	52.2			9.376777	
8	2	11	56.5	1961		10.752726	
9	3	16	79.3	1341	1005	11.748118	

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	79.8	1429		0.683761	1
1	3	8	95.3	1169	1131	2.321144	
2	2	6	84.9	1548		3.160602	
3	3	20	93.4	1296	1264	5.770408	
4	2	9	56.1	1803		6.689374	
5	2	18	57.6	1283		7.792114	
6	2	5	83	1381		9.57584	
7	2	7	66	1196		11.172258	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	55.9	1485		1.316539	1
1	2	6	78.7	1640		2.386891	
2	2	15	84.1	1582		3.010362	
3	1	14	76.6			4.387538	
4	1	16	51.8			6.418111	
5	3	18	85.7	1980	1074	7.292414	
6	2	15	73.9	1506		8.692224	
7	2	8	86.3	1036		9.867474	
8	2	15	99.3	1514		11.61384	

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	18	69.5	1147		0.625534	1
1	1	19	80.4			1.137874	
2	2	11	59.1	1675		1.402186	
3	1	10	78			2.2935	
4	2	14	60.4	1539		3.153505	
5	3	19	84	1638	1993	3.34629	
6	3	14	86.9	1953	1565	3.95635	
7	2	17	66.6	1679		4.777195	
8	1	11	57.1			5.322887	
9	3	20	87	1898	1248	6.262461	
10	1	12	88.6			6.823622	
11	1	8	77.6			7.299317	
12	1	12	69.9			7.841711	
13	3	10	95.2	1936	1920	8.357961	
14	2	11	55	1399		9.103759	
15	1	15	63.3			10.058473	
16	3	9	57.9	1390	1886	10.489096	
17	2	15	84.8	1314		10.897997	
18	2	10	73.4	1457		11.709199	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	92.6	1607		0.297035	1
1	3	11	91.7	1443	1997	1.896388	
2	1	17	51.7			2.428222	
3	2	9	82.2	1940		3.658691	
4	1	14	69.3			4.936982	
5	3	10	88.8	1481	1643	6.271757	
6	2	14	88	1763		7.960265	
7	1	9	93.2			9.118013	
8	2	15	70.9	1309		9.843194	
9	2	13	81.8	1196		11.512344	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	67.4			0.000867	1
1	1	15	88.8			1.21468	
2	1	12	78.2			1.519432	
3	3	13	66.4	1312	1392	2.453508	
4	1	14	97.5			3.1356	
5	3	9	77.2	1552	1066	3.23429	
6	3	14	71.8	1610	1183	4.093496	
7	3	9	69.6	1933	1170	4.817504	
8	3	14	83.3	1962	1400	5.490624	
9	2	15	75.3	1128		5.886298	
10	2	7	54.2	1111		6.879854	
11	3	9	64.2	1541	1983	7.088592	
12	2	10	95.4	1139		7.598386	
13	2	7	67.2	1345		8.318498	
14	2	6	76.4	1277		9.414304	
15	3	7	61.4	1670	1048	9.936826	
16	1	10	70			10.208018	
17	3	15	65.7	1559	1222	11.04637	
18	3	16	89	1730	1431	11.377217	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	65.8	1798	1530	0.075713	1
1	2	18	65.7	1197		0.976627	
2	1	18	58.9			1.760017	
3	1	14	68.3			2.145964	
4	2	18	55.3	1253		2.626013	
5	3	19	88.5	1090	1188	3.23744	
6	1	12	91.9			4.100028	
7	3	5	64.6	1688	1217	4.958085	
8	2	13	94.7	1207		5.282719	
9	1	11	89.6			6.26836	
10	1	5	65.6			6.395658	
11	3	5	87.5	1216	1690	7.153274	
12	3	14	58.2	1360	1796	7.904514	
13	2	14	67.8	1954		8.702614	
14	2	8	78	1223		9.383867	
15	2	14	87.3	1986		10.025212	
16	2	8	64.1	1788		10.155157	
17	1	11	78.6			11.347605	
18	2	18	76.1	1012		11.683109	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	52.8	1771		0.547528	1
1	2	19	83.3	1699		1.555128	
2	1	8	90.4			2.587971	
3	2	6	54.2	1254		3.496232	
4	2	11	62.7	1849		4.510106	
5	1	10	57.1			5.171745	
6	2	5	56	1223		6.40743	
7	3	5	56.5	1571	1126	7.287868	
8	2	18	66.6	1018		7.819529	
9	2	17	55.9	1766		8.860888	
10	2	8	73	1377		9.860502	
11	3	18	76.3	1235	1450	10.289908	
12	2	7	53.9	1586		11.86297	

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	19	60.9			0.029099	1
1	2	19	81.6	1303		0.737909	
2	3	10	86.4	1980	1364	1.879814	
3	2	14	77.8	1656		2.147122	
4	1	9	60.5			3.07313	
5	3	9	72.2	1505	1002	3.583806	
6	2	13	83.3	1337		4.196475	
7	3	9	76.2	1152	1876	4.867926	
8	2	15	90.8	1021		5.939903	
9	3	11	83.4	1084	1965	6.181884	
10	1	12	84.3			6.713101	
11	3	9	73.8	1269	1277	7.718186	
12	3	8	52.7	1937	1156	8.020385	
13	3	6	67.3	1880	1537	9.309816	
14	2	10	88.6	1055		9.88048	
15	3	17	52.5	1967	1510	10.09546	
16	1	17	88.9			10.771017	
17	1	19	64.2			11.717016	

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	59.8	1390		0.369567	1
1	2	15	52.3	1259		0.746047	
2	1	17	68.9			1.394711	
3	1	7	71.3			2.415467	
4	1	5	97.8			3.148334	
5	2	19	55.6	1150		3.630862	
6	2	11	54.6	1131		3.973794	
7	2	18	52.3	1910		4.539722	
8	3	6	66.9	1072	1774	5.54256	
9	1	7	52.4			6.304068	
10	2	11	55.1	1729		6.50467	
11	3	7	70.7	1039	1412	7.247069	
12	2	18	64.7	1217		7.699835	
13	2	9	68.2	1896		8.427792	
14	3	11	61.7	1277	1085	8.943962	
15	3	8	61.3	1284	1780	9.8362	
16	3	19	86.2	1310	1816	10.168419	
17	1	9	60.6			11.329525	
18	2	8	79.9	1166		11.471741	

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	16	98.2	1735		0.441154	1
1	2	17	56.2	1089		1.270937	
2	1	14	71.3			1.873369	
3	3	17	73.9	1462	1802	2.467025	
4	2	15	82.1	1419		3.063949	
5	1	14	59.7			3.945063	
6	1	15	61.8			4.607731	
7	1	12	53.2			5.142593	
8	2	18	70.3	1114		5.715141	
9	3	12	86.5	1893	1541	6.645674	
10	2	12	65.2	1862		7.376533	
11	3	20	55.5	1943	1567	7.945335	
12	1	19	91.6			9.142407	
13	2	15	68.6	1881		9.431768	
14	1	8	70.6			10.083507	
15	2	8	95.7	1516		10.7945	
16	3	15	69.2	1996	1938	11.741936	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	71.8	1239	1247	0.564173	1
1	2	10	54.5	1872		1.265491	
2	3	6	77.5	1527	1444	1.747528	
3	3	18	57.4	1322	1332	2.6598	
4	3	10	89.2	1191	1883	3.740266	
5	3	19	52.8	1549	1293	4.776405	
6	1	5	57.1			5.953218	
7	2	7	67.9	1376		6.305942	
8	1	5	93.2			7.313213	
9	2	12	56.5	1738		8.48719	
10	1	15	66.7			8.858954	
11	2	18	58.1	1049		9.680626	
12	3	9	83.6	1047	1962	10.690876	
13	1	9	93.9			11.822616	

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	12	62.9			1.101964	1
1	2	19	80.3	1268		1.588917	
2	3	12	54.7	1754	1410	3.902886	
3	2	12	65.8	1981		4.088409	
4	2	17	57.6	1771		6.540114	
5	2	9	99.8	1994		7.010163	
6	2	7	73.7	1214		8.054371	
7	2	9	97.9	1466		10.628538	
8	2	14	66	1786		11.385947	

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	5566.0, 5303.0, 5398.0, 5376.0, 5521.0, 5722.0, 5568.0, 5662.0, 5659.0, 5262.0, 5589.0, 5433.0, 5476.0, 5379.0, 5255.0, 5518.0, 5613.0, 5570.0, 5341.0, 5409.0, 5461.0, 5657.0, 5261.0, 5668.0, 5332.0, 5587.0, 5674.0, 5487.0, 5471.0, 5438.0, 5601.0, 5514.0, 5345.0, 5661.0, 5607.0, 5365.0, 5638.0, 5586.0, 5503.0, 5654.0, 5397.0, 5325.0, 5286.0, 5665.0, 5645.0, 5420.0, 5632.0, 5699.0, 5366.0, 5571.0, 5259.0, 5682.0, 5486.0, 5459.0, 5553.0, 5593.0, 5637.0, 5581.0, 5401.0, 5694.0, 5391.0, 5273.0, 5278.0, 5528.0, 5474.0, 5634.0, 5411.0, 5696.0, 5361.0, 5692.0, 5512.0, 5573.0, 5628.0, 5723.0, 5714.0, 5506.0, 5554.0, 5269.0, 5599.0, 5317.0, 5611.0, 5374.0, 5402.0, 5564.0, 5407.0, 5550.0, 5363.0, 5594.0, 5547.0, 5312.0, 5381.0, 5676.0, 5450.0, 5585.0, 5263.0, 5467.0, 5429.0, 5631.0, 5297.0, 5387.0 (number of hits: 4)
2	5550	9	1	333	1	5465.0, 5333.0, 5255.0, 5684.0, 5681.0, 5580.0, 5511.0, 5362.0, 5645.0, 5340.0, 5654.0, 5363.0, 5677.0, 5685.0, 5284.0, 5322.0, 5566.0, 5327.0, 5542.0, 5296.0, 5262.0, 5590.0, 5508.0, 5614.0, 5513.0, 5587.0, 5547.0, 5258.0, 5463.0, 5291.0, 5604.0, 5406.0, 5694.0, 5686.0, 5568.0, 5584.0, 5419.0, 5560.0, 5533.0, 5411.0, 5715.0, 5347.0, 5433.0, 5285.0, 5423.0, 5549.0, 5702.0, 5420.0, 5349.0, 5310.0, 5563.0, 5608.0, 5457.0, 5451.0, 5429.0, 5430.0, 5413.0, 5556.0, 5653.0, 5437.0, 5504.0, 5478.0, 5474.0, 5619.0, 5669.0, 5605.0, 5502.0, 5268.0, 5267.0, 5572.0, 5558.0, 5499.0, 5471.0, 5447.0, 5515.0, 5341.0, 5544.0, 5425.0, 5532.0, 5274.0, 5306.0, 5491.0, 5266.0, 5704.0, 5323.0, 5260.0, 5489.0, 5314.0, 5371.0, 5548.0, 5348.0, 5633.0, 5527.0, 5667.0, 5398.0, 5251.0, 5706.0, 5708.0, 5395.0, 5434.0 (number of hits: 6)
3	5550	9	1	333	1	5534.0, 5647.0, 5350.0, 5457.0, 5397.0, 5319.0, 5490.0, 5310.0, 5294.0, 5481.0, 5432.0, 5491.0, 5659.0, 5297.0, 5561.0, 5374.0, 5417.0, 5257.0, 5522.0, 5349.0, 5382.0, 5723.0, 5343.0, 5405.0, 5598.0, 5681.0, 5378.0, 5400.0, 5595.0, 5574.0, 5381.0, 5583.0, 5492.0, 5485.0, 5524.0, 5311.0, 5370.0, 5352.0, 5320.0, 5387.0, 5626.0, 5314.0, 5493.0, 5543.0, 5527.0, 5371.0, 5639.0, 5706.0, 5608.0, 5317.0, 5605.0, 5418.0, 5463.0, 5410.0, 5407.0, 5575.0, 5579.0, 5399.0, 5367.0, 5439.0

						5259.0, 5540.0, 5519.0, 5323.0, 5380.0, 5496.0, 5441.0, 5568.0, 5293.0, 5552.0, 5357.0, 5256.0, 5434.0, 5628.0, 5268.0, 5704.0, 5470.0, 5643.0, 5440.0, 5629.0, 5580.0, 5467.0, 5411.0, 5403.0, 5482.0, 5625.0, 5450.0, 5538.0, 5703.0, 5680.0, 5513.0, 5306.0, 5476.0, 5516.0, 5301.0, 5582.0, 5304.0, 5657.0, 5379.0, 5422.0 (number of hits: 9)
4	5550	9	1	333	1	5613.0, 5499.0, 5406.0, 5433.0, 5553.0, 5559.0, 5341.0, 5332.0, 5480.0, 5580.0, 5442.0, 5460.0, 5283.0, 5403.0, 5354.0, 5675.0, 5435.0, 5714.0, 5477.0, 5694.0, 5528.0, 5444.0, 5375.0, 5424.0, 5314.0, 5417.0, 5636.0, 5715.0, 5676.0, 5574.0, 5325.0, 5496.0, 5270.0, 5267.0, 5526.0, 5544.0, 5548.0, 5707.0, 5568.0, 5686.0, 5408.0, 5288.0, 5459.0, 5519.0, 5703.0, 5596.0, 5319.0, 5367.0, 5445.0, 5491.0, 5462.0, 5274.0, 5706.0, 5677.0, 5527.0, 5428.0, 5255.0, 5517.0, 5497.0, 5303.0, 5429.0, 5652.0, 5308.0, 5456.0, 5687.0, 5609.0, 5259.0, 5266.0, 5440.0, 5295.0, 5431.0, 5722.0, 5414.0, 5284.0, 5713.0, 5366.0, 5674.0, 5405.0, 5437.0, 5699.0, 5485.0, 5647.0, 5604.0, 5370.0, 5599.0, 5666.0, 5470.0, 5701.0, 5508.0, 5299.0, 5390.0, 5543.0, 5374.0, 5616.0, 5560.0, 5290.0, 5638.0, 5334.0, 5441.0, 5702.0 (number of hits: 7)
5	5550	9	1	333	1	5603.0, 5509.0, 5432.0, 5505.0, 5279.0, 5642.0, 5287.0, 5281.0, 5296.0, 5709.0, 5375.0, 5253.0, 5349.0, 5503.0, 5588.0, 5534.0, 5704.0, 5586.0, 5640.0, 5336.0, 5521.0, 5363.0, 5601.0, 5587.0, 5454.0, 5597.0, 5530.0, 5380.0, 5599.0, 5491.0, 5351.0, 5426.0, 5402.0, 5435.0, 5515.0, 5424.0, 5548.0, 5276.0, 5577.0, 5496.0, 5535.0, 5458.0, 5367.0, 5495.0, 5292.0, 5598.0, 5633.0, 5637.0, 5463.0, 5547.0, 5526.0, 5477.0, 5411.0, 5653.0, 5347.0, 5542.0, 5665.0, 5309.0, 5615.0, 5519.0, 5655.0, 5646.0, 5370.0, 5539.0, 5313.0, 5354.0, 5634.0, 5566.0, 5434.0, 5543.0, 5300.0, 5715.0, 5368.0, 5307.0, 5476.0, 5436.0, 5468.0, 5288.0, 5386.0, 5689.0, 5433.0, 5258.0, 5579.0, 5718.0, 5304.0, 5451.0, 5562.0, 5575.0, 5359.0, 5456.0, 5348.0, 5498.0, 5560.0, 5487.0, 5692.0, 5513.0, 5650.0, 5564.0, 5306.0, 5703.0 (number of hits: 10)
6	5550	9	1	333	1	5547.0, 5330.0, 5281.0, 5452.0, 5320.0, 5348.0, 5591.0, 5346.0, 5445.0, 5698.0, 5311.0, 5340.0, 5686.0, 5666.0, 5647.0, 5468.0, 5607.0, 5393.0, 5623.0, 5314.0, 5321.0, 5305.0, 5701.0, 5603.0, 5628.0, 5597.0, 5693.0, 5515.0, 5332.0, 5529.0, 5651.0, 5296.0, 5537.0, 5464.0, 5605.0, 5596.0, 5568.0, 5496.0, 5663.0, 5545.0,

						5363.0, 5291.0, 5719.0, 5458.0, 5531.0, 5400.0, 5569.0, 5577.0, 5527.0, 5500.0, 5513.0, 5524.0, 5697.0, 5712.0, 5516.0, 5673.0, 5718.0, 5390.0, 5689.0, 5463.0, 5308.0, 5385.0, 5668.0, 5427.0, 5518.0, 5616.0, 5344.0, 5420.0, 5644.0, 5610.0, 5449.0, 5319.0, 5302.0, 5560.0, 5618.0, 5582.0, 5678.0, 5622.0, 5552.0, 5395.0, 5665.0, 5380.0, 5375.0, 5298.0, 5337.0, 5377.0, 5283.0, 5303.0, 5430.0, 5255.0, 5690.0, 5578.0, 5722.0, 5278.0, 5508.0, 5688.0, 5262.0, 5658.0, 5478.0, 5353.0 (number of hits: 9)
7	5550	9	1	333	1	5277.0, 5512.0, 5666.0, 5419.0, 5377.0, 5707.0, 5358.0, 5360.0, 5622.0, 5560.0, 5643.0, 5259.0, 5306.0, 5417.0, 5584.0, 5671.0, 5585.0, 5488.0, 5649.0, 5616.0, 5346.0, 5409.0, 5688.0, 5564.0, 5570.0, 5636.0, 5492.0, 5342.0, 5496.0, 5278.0, 5586.0, 5680.0, 5603.0, 5418.0, 5459.0, 5264.0, 5484.0, 5567.0, 5433.0, 5565.0, 5274.0, 5388.0, 5535.0, 5407.0, 5490.0, 5261.0, 5321.0, 5257.0, 5440.0, 5420.0, 5700.0, 5486.0, 5291.0, 5457.0, 5469.0, 5447.0, 5498.0, 5625.0, 5608.0, 5355.0, 5411.0, 5650.0, 5439.0, 5533.0, 5561.0, 5475.0, 5425.0, 5544.0, 5441.0, 5286.0, 5491.0, 5717.0, 5478.0, 5363.0, 5357.0, 5682.0, 5559.0, 5647.0, 5462.0, 5684.0, 5592.0, 5659.0, 5258.0, 5654.0, 5328.0, 5668.0, 5273.0, 5710.0, 5599.0, 5446.0, 5424.0, 5379.0, 5618.0, 5679.0, 5476.0, 5401.0, 5543.0, 5546.0, 5444.0, 5467.0 (number of hits: 3)
8	5550	9	1	333	1	5308.0, 5326.0, 5406.0, 5544.0, 5565.0, 5629.0, 5422.0, 5387.0, 5631.0, 5374.0, 5344.0, 5559.0, 5420.0, 5361.0, 5300.0, 5542.0, 5313.0, 5279.0, 5688.0, 5589.0, 5577.0, 5339.0, 5333.0, 5686.0, 5372.0, 5593.0, 5298.0, 5509.0, 5721.0, 5401.0, 5617.0, 5531.0, 5625.0, 5626.0, 5472.0, 5283.0, 5447.0, 5403.0, 5600.0, 5610.0, 5575.0, 5659.0, 5348.0, 5627.0, 5439.0, 5661.0, 5539.0, 5274.0, 5496.0, 5278.0, 5632.0, 5257.0, 5488.0, 5315.0, 5519.0, 5681.0, 5581.0, 5722.0, 5446.0, 5464.0, 5513.0, 5324.0, 5707.0, 5566.0, 5417.0, 5655.0, 5703.0, 5653.0, 5285.0, 5713.0, 5408.0, 5708.0, 5336.0, 5529.0, 5325.0, 5490.0, 5359.0, 5475.0, 5433.0, 5666.0, 5391.0, 5646.0, 5662.0, 5492.0, 5641.0, 5307.0, 5441.0, 5379.0, 5657.0, 5460.0, 5364.0, 5664.0, 5635.0, 5683.0, 5491.0, 5604.0, 5427.0, 5591.0, 5501.0, 5436.0 (number of hits: 6)
9	5550	9	1	333	1	5400.0, 5261.0, 5369.0, 5388.0, 5411.0, 5497.0, 5341.0, 5522.0, 5385.0, 5571.0, 5513.0, 5580.0, 5719.0, 5547.0, 5707.0, 5424.0, 5355.0, 5531.0, 5395.0, 5281.0,

						5308.0, 5292.0, 5347.0, 5534.0, 5435.0, 5460.0, 5603.0, 5470.0, 5525.0, 5426.0, 5619.0, 5472.0, 5565.0, 5280.0, 5414.0, 5330.0, 5697.0, 5633.0, 5320.0, 5286.0, 5463.0, 5445.0, 5318.0, 5715.0, 5486.0, 5277.0, 5338.0, 5551.0, 5696.0, 5451.0, 5408.0, 5398.0, 5374.0, 5665.0, 5285.0, 5467.0, 5313.0, 5263.0, 5545.0, 5704.0, 5506.0, 5520.0, 5326.0, 5624.0, 5598.0, 5495.0, 5605.0, 5453.0, 5360.0, 5309.0, 5712.0, 5289.0, 5342.0, 5305.0, 5503.0, 5392.0, 5259.0, 5362.0, 5611.0, 5417.0, 5593.0, 5328.0, 5268.0, 5361.0, 5567.0, 5483.0, 5632.0, 5365.0, 5391.0, 5404.0, 5410.0, 5430.0, 5594.0, 5648.0, 5717.0, 5462.0, 5315.0, 5441.0, 5297.0, 5336.0 (number of hits: 9)
10	5550	9	1	333	1	5490.0, 5602.0, 5440.0, 5548.0, 5595.0, 5597.0, 5647.0, 5281.0, 5296.0, 5392.0, 5280.0, 5290.0, 5541.0, 5315.0, 5533.0, 5455.0, 5522.0, 5583.0, 5259.0, 5327.0, 5262.0, 5650.0, 5506.0, 5456.0, 5464.0, 5294.0, 5705.0, 5301.0, 5543.0, 5637.0, 5283.0, 5565.0, 5340.0, 5719.0, 5386.0, 5640.0, 5404.0, 5308.0, 5621.0, 5503.0, 5723.0, 5713.0, 5306.0, 5658.0, 5402.0, 5660.0, 5622.0, 5278.0, 5432.0, 5493.0, 5550.0, 5642.0, 5582.0, 5355.0, 5722.0, 5643.0, 5510.0, 5282.0, 5555.0, 5441.0, 5288.0, 5303.0, 5609.0, 5255.0, 5498.0, 5321.0, 5635.0, 5445.0, 5655.0, 5258.0, 5567.0, 5606.0, 5593.0, 5704.0, 5571.0, 5654.0, 5502.0, 5366.0, 5576.0, 5459.0, 5447.0, 5554.0, 5359.0, 5453.0, 5323.0, 5476.0, 5530.0, 5395.0, 5317.0, 5652.0, 5514.0, 5566.0, 5375.0, 5251.0, 5471.0, 5508.0, 5310.0, 5691.0, 5348.0, 5546.0 (number of hits: 9)
11	5550	9	1	333	1	5536.0, 5282.0, 5299.0, 5411.0, 5499.0, 5561.0, 5469.0, 5349.0, 5271.0, 5625.0, 5582.0, 5396.0, 5390.0, 5529.0, 5280.0, 5432.0, 5655.0, 5392.0, 5344.0, 5696.0, 5606.0, 5677.0, 5687.0, 5371.0, 5501.0, 5462.0, 5665.0, 5573.0, 5654.0, 5254.0, 5251.0, 5332.0, 5680.0, 5605.0, 5620.0, 5421.0, 5382.0, 5451.0, 5427.0, 5673.0, 5544.0, 5494.0, 5476.0, 5613.0, 5691.0, 5689.0, 5358.0, 5556.0, 5581.0, 5397.0, 5440.0, 5450.0, 5564.0, 5445.0, 5707.0, 5429.0, 5265.0, 5604.0, 5329.0, 5508.0, 5387.0, 5303.0, 5383.0, 5485.0, 5557.0, 5431.0, 5441.0, 5678.0, 5721.0, 5688.0, 5479.0, 5593.0, 5706.0, 5539.0, 5337.0, 5465.0, 5345.0, 5621.0, 5372.0, 5588.0, 5698.0, 5464.0, 5305.0, 5607.0, 5400.0, 5320.0, 5474.0, 5339.0, 5362.0, 5565.0, 5377.0, 5418.0, 5614.0, 5256.0, 5630.0, 5523.0, 5391.0, 5531.0, 5426.0, 5389.0 (number of hits: 3)

12	5550	9	1	333	1	5452.0, 5494.0, 5355.0, 5327.0, 5668.0, 5426.0, 5709.0, 5510.0, 5345.0, 5594.0, 5715.0, 5683.0, 5641.0, 5261.0, 5480.0, 5492.0, 5436.0, 5301.0, 5298.0, 5398.0, 5423.0, 5361.0, 5439.0, 5530.0, 5687.0, 5473.0, 5651.0, 5479.0, 5571.0, 5638.0, 5676.0, 5389.0, 5477.0, 5475.0, 5722.0, 5338.0, 5435.0, 5544.0, 5721.0, 5685.0, 5546.0, 5422.0, 5606.0, 5315.0, 5456.0, 5536.0, 5607.0, 5691.0, 5640.0, 5380.0, 5515.0, 5319.0, 5498.0, 5468.0, 5628.0, 5681.0, 5431.0, 5559.0, 5476.0, 5708.0, 5501.0, 5507.0, 5720.0, 5545.0, 5705.0, 5411.0, 5551.0, 5577.0, 5674.0, 5420.0, 5305.0, 5572.0, 5313.0, 5397.0, 5482.0, 5499.0, 5401.0, 5496.0, 5341.0, 5540.0, 5471.0, 5283.0, 5304.0, 5440.0, 5616.0, 5639.0, 5526.0, 5550.0, 5278.0, 5407.0, 5342.0, 5534.0, 5644.0, 5356.0, 5591.0, 5503.0, 5299.0, 5520.0, 5703.0, 5404.0 (number of hits: 6)
13	5550	9	1	333	1	5429.0, 5631.0, 5462.0, 5305.0, 5438.0, 5540.0, 5651.0, 5480.0, 5360.0, 5365.0, 5506.0, 5519.0, 5525.0, 5619.0, 5496.0, 5439.0, 5576.0, 5709.0, 5715.0, 5723.0, 5599.0, 5620.0, 5523.0, 5567.0, 5639.0, 5671.0, 5355.0, 5552.0, 5516.0, 5625.0, 5504.0, 5719.0, 5589.0, 5642.0, 5437.0, 5427.0, 5718.0, 5304.0, 5463.0, 5399.0, 5419.0, 5528.0, 5569.0, 5395.0, 5475.0, 5522.0, 5621.0, 5544.0, 5310.0, 5272.0, 5350.0, 5612.0, 5292.0, 5407.0, 5643.0, 5652.0, 5555.0, 5588.0, 5617.0, 5494.0, 5473.0, 5618.0, 5537.0, 5303.0, 5581.0, 5720.0, 5256.0, 5265.0, 5370.0, 5545.0, 5457.0, 5529.0, 5391.0, 5372.0, 5633.0, 5650.0, 5461.0, 5375.0, 5314.0, 5515.0, 5696.0, 5695.0, 5716.0, 5284.0, 5655.0, 5530.0, 5482.0, 5424.0, 5352.0, 5311.0, 5640.0, 5346.0, 5644.0, 5665.0, 5317.0, 5501.0, 5623.0, 5649.0, 5692.0, 5514.0 (number of hits: 7)
14	5550	9	1	333	1	5546.0, 5289.0, 5476.0, 5399.0, 5279.0, 5437.0, 5486.0, 5574.0, 5334.0, 5342.0, 5619.0, 5311.0, 5483.0, 5267.0, 5573.0, 5316.0, 5341.0, 5468.0, 5587.0, 5598.0, 5683.0, 5641.0, 5686.0, 5717.0, 5699.0, 5398.0, 5261.0, 5632.0, 5255.0, 5250.0, 5305.0, 5444.0, 5627.0, 5711.0, 5692.0, 5552.0, 5583.0, 5389.0, 5378.0, 5306.0, 5527.0, 5647.0, 5369.0, 5457.0, 5372.0, 5258.0, 5651.0, 5396.0, 5694.0, 5503.0, 5654.0, 5403.0, 5377.0, 5256.0, 5299.0, 5604.0, 5645.0, 5443.0, 5701.0, 5351.0, 5682.0, 5676.0, 5376.0, 5343.0, 5622.0, 5593.0, 5534.0, 5252.0, 5451.0, 5283.0, 5286.0, 5695.0, 5482.0, 5353.0, 5591.0, 5572.0, 5490.0, 5562.0, 5420.0, 5511.0, 5525.0, 5295.0, 5548.0, 5705.0, 5709.0,

						5723.0, 5685.0, 5260.0, 5576.0, 5659.0, 5667.0, 5441.0, 5665.0, 5379.0, 5310.0, 5307.0, 5425.0, 5650.0, 5609.0, 5639.0 (number of hits: 9)
15	5550	9	1	333	1	5473.0, 5435.0, 5394.0, 5250.0, 5329.0, 5648.0, 5487.0, 5296.0, 5420.0, 5715.0, 5472.0, 5677.0, 5295.0, 5702.0, 5512.0, 5599.0, 5633.0, 5520.0, 5497.0, 5593.0, 5696.0, 5377.0, 5436.0, 5507.0, 5280.0, 5485.0, 5362.0, 5506.0, 5354.0, 5671.0, 5571.0, 5516.0, 5466.0, 5600.0, 5269.0, 5649.0, 5284.0, 5565.0, 5500.0, 5401.0, 5333.0, 5370.0, 5361.0, 5432.0, 5556.0, 5346.0, 5460.0, 5301.0, 5434.0, 5339.0, 5661.0, 5538.0, 5684.0, 5557.0, 5706.0, 5369.0, 5311.0, 5314.0, 5627.0, 5588.0, 5530.0, 5393.0, 5357.0, 5645.0, 5427.0, 5326.0, 5410.0, 5464.0, 5630.0, 5594.0, 5422.0, 5439.0, 5451.0, 5618.0, 5704.0, 5387.0, 5658.0, 5286.0, 5353.0, 5462.0, 5581.0, 5423.0, 5638.0, 5659.0, 5433.0, 5566.0, 5340.0, 5265.0, 5386.0, 5477.0, 5554.0, 5418.0, 5424.0, 5298.0, 5563.0, 5548.0, 5448.0, 5343.0, 5402.0, 5352.0 (number of hits: 7)
16	5550	9	1	333	1	5543.0, 5455.0, 5624.0, 5663.0, 5718.0, 5648.0, 5485.0, 5526.0, 5558.0, 5666.0, 5408.0, 5701.0, 5352.0, 5470.0, 5552.0, 5565.0, 5585.0, 5360.0, 5292.0, 5409.0, 5516.0, 5677.0, 5375.0, 5620.0, 5272.0, 5428.0, 5472.0, 5687.0, 5322.0, 5257.0, 5655.0, 5531.0, 5460.0, 5432.0, 5484.0, 5456.0, 5451.0, 5532.0, 5540.0, 5708.0, 5388.0, 5431.0, 5634.0, 5298.0, 5553.0, 5598.0, 5502.0, 5613.0, 5287.0, 5349.0, 5657.0, 5653.0, 5424.0, 5390.0, 5622.0, 5643.0, 5278.0, 5423.0, 5268.0, 5354.0, 5647.0, 5475.0, 5330.0, 5429.0, 5344.0, 5713.0, 5368.0, 5400.0, 5376.0, 5555.0, 5564.0, 5254.0, 5454.0, 5357.0, 5294.0, 5536.0, 5593.0, 5705.0, 5674.0, 5370.0, 5348.0, 5688.0, 5369.0, 5373.0, 5265.0, 5380.0, 5473.0, 5578.0, 5692.0, 5711.0, 5563.0, 5699.0, 5566.0, 5277.0, 5690.0, 5384.0, 5327.0, 5381.0, 5521.0, 5518.0 (number of hits: 4)
17	5550	9	1	333	1	5474.0, 5454.0, 5589.0, 5582.0, 5549.0, 5333.0, 5376.0, 5524.0, 5268.0, 5610.0, 5291.0, 5667.0, 5281.0, 5723.0, 5470.0, 5431.0, 5379.0, 5260.0, 5492.0, 5384.0, 5536.0, 5542.0, 5293.0, 5395.0, 5553.0, 5360.0, 5483.0, 5460.0, 5515.0, 5580.0, 5375.0, 5387.0, 5488.0, 5463.0, 5423.0, 5599.0, 5514.0, 5631.0, 5343.0, 5462.0, 5618.0, 5368.0, 5362.0, 5523.0, 5541.0, 5685.0, 5482.0, 5675.0, 5645.0, 5548.0, 5592.0, 5434.0, 5494.0, 5258.0, 5329.0, 5669.0, 5569.0, 5382.0, 5477.0, 5340.0, 5317.0, 5355.0, 5347.0, 5331.0, 5372.0,

						5583.0, 5491.0, 5543.0, 5456.0, 5684.0, 5511.0, 5332.0, 5544.0, 5540.0, 5472.0, 5555.0, 5315.0, 5687.0, 5467.0, 5442.0, 5328.0, 5346.0, 5607.0, 5713.0, 5505.0, 5568.0, 5556.0, 5311.0, 5595.0, 5577.0, 5516.0, 5517.0, 5390.0, 5418.0, 5265.0, 5690.0, 5373.0, 5719.0, 5435.0, 5464.0 (number of hits: 3)
18	5550	9	1	333	1	5309.0, 5403.0, 5357.0, 5574.0, 5706.0, 5592.0, 5586.0, 5566.0, 5456.0, 5445.0, 5657.0, 5549.0, 5285.0, 5610.0, 5266.0, 5348.0, 5698.0, 5530.0, 5344.0, 5700.0, 5327.0, 5671.0, 5274.0, 5551.0, 5292.0, 5372.0, 5388.0, 5255.0, 5395.0, 5708.0, 5373.0, 5436.0, 5340.0, 5541.0, 5512.0, 5298.0, 5368.0, 5439.0, 5591.0, 5478.0, 5552.0, 5482.0, 5568.0, 5670.0, 5688.0, 5330.0, 5605.0, 5583.0, 5289.0, 5286.0, 5656.0, 5450.0, 5557.0, 5296.0, 5723.0, 5443.0, 5264.0, 5412.0, 5422.0, 5564.0, 5358.0, 5653.0, 5385.0, 5538.0, 5517.0, 5511.0, 5484.0, 5319.0, 5575.0, 5685.0, 5633.0, 5641.0, 5437.0, 5432.0, 5579.0, 5254.0, 5394.0, 5576.0, 5696.0, 5684.0, 5435.0, 5497.0, 5679.0, 5468.0, 5503.0, 5386.0, 5528.0, 5304.0, 5379.0, 5536.0, 5702.0, 5275.0, 5690.0, 5260.0, 5602.0, 5293.0, 5336.0, 5297.0, 5481.0, 5597.0 (number of hits: 10)
19	5550	9	1	333	1	5284.0, 5643.0, 5329.0, 5400.0, 5312.0, 5710.0, 5344.0, 5292.0, 5501.0, 5618.0, 5316.0, 5289.0, 5590.0, 5323.0, 5500.0, 5520.0, 5507.0, 5665.0, 5485.0, 5411.0, 5587.0, 5544.0, 5704.0, 5491.0, 5375.0, 5416.0, 5461.0, 5306.0, 5674.0, 5296.0, 5295.0, 5367.0, 5484.0, 5551.0, 5426.0, 5720.0, 5427.0, 5697.0, 5277.0, 5642.0, 5378.0, 5561.0, 5531.0, 5684.0, 5267.0, 5624.0, 5313.0, 5482.0, 5676.0, 5694.0, 5702.0, 5273.0, 5494.0, 5276.0, 5357.0, 5429.0, 5321.0, 5388.0, 5465.0, 5434.0, 5356.0, 5379.0, 5644.0, 5268.0, 5257.0, 5343.0, 5438.0, 5606.0, 5252.0, 5611.0, 5636.0, 5471.0, 5705.0, 5613.0, 5648.0, 5518.0, 5635.0, 5549.0, 5291.0, 5470.0, 5299.0, 5354.0, 5303.0, 5621.0, 5600.0, 5550.0, 5433.0, 5717.0, 5483.0, 5457.0, 5497.0, 5305.0, 5607.0, 5657.0, 5622.0, 5454.0, 5701.0, 5352.0, 5451.0, 5534.0 (number of hits: 11)
20	5550	9	1	333	1	5594.0, 5652.0, 5650.0, 5671.0, 5301.0, 5598.0, 5642.0, 5391.0, 5336.0, 5502.0, 5684.0, 5704.0, 5474.0, 5539.0, 5449.0, 5722.0, 5392.0, 5253.0, 5352.0, 5612.0, 5456.0, 5717.0, 5548.0, 5429.0, 5284.0, 5697.0, 5667.0, 5595.0, 5544.0, 5264.0, 5395.0, 5526.0, 5587.0, 5256.0, 5517.0, 5453.0, 5706.0, 5375.0, 5348.0, 5289.0, 5447.0, 5721.0, 5703.0, 5499.0, 5437.0,

						5384.0, 5688.0, 5643.0, 5623.0, 5335.0, 5533.0, 5590.0, 5501.0, 5290.0, 5604.0, 5276.0, 5386.0, 5433.0, 5571.0, 5593.0, 5311.0, 5315.0, 5534.0, 5696.0, 5408.0, 5366.0, 5498.0, 5607.0, 5430.0, 5512.0, 5369.0, 5508.0, 5664.0, 5258.0, 5620.0, 5523.0, 5621.0, 5324.0, 5628.0, 5418.0, 5371.0, 5723.0, 5424.0, 5661.0, 5670.0, 5469.0, 5380.0, 5724.0, 5355.0, 5701.0, 5503.0, 5660.0, 5682.0, 5634.0, 5626.0, 5506.0, 5343.0, 5346.0, 5260.0, 5554.0 (number of hits: 4)
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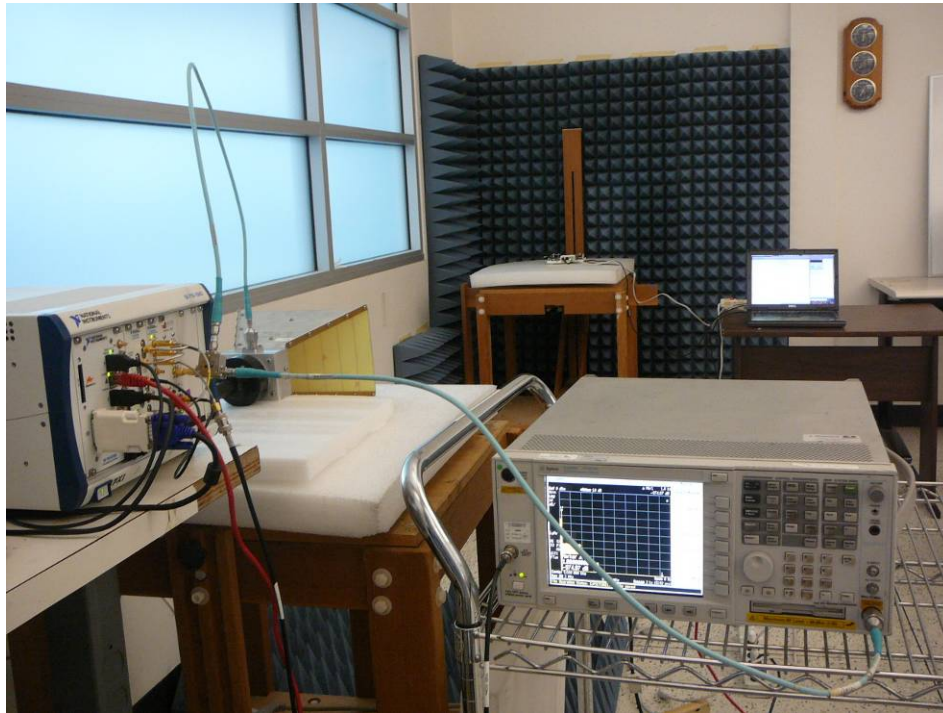
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29	5550	9	1	333	1	5412.0, 5484.0, 5698.0, 5345.0, 5458.0, 5636.0, 5683.0, 5388.0, 5603.0, 5510.0, 5718.0, 5537.0, 5430.0, 5545.0, 5562.0, 5435.0, 5405.0, 5622.0, 5356.0, 5449.0, 5550.0, 5597.0, 5454.0, 5632.0, 5623.0, 5615.0, 5540.0, 5647.0, 5501.0, 5511.0, 5621.0, 5302.0, 5339.0, 5541.0, 5389.0, 5318.0, 5384.0, 5337.0, 5581.0, 5273.0, 5286.0, 5294.0, 5672.0, 5463.0, 5667.0, 5493.0, 5465.0, 5277.0, 5507.0, 5532.0, 5575.0, 5457.0, 5390.0, 5506.0, 5267.0, 5685.0, 5723.0, 5502.0, 5495.0, 5639.0, 5558.0, 5590.0, 5409.0, 5629.0, 5367.0, 5607.0, 5609.0, 5681.0, 5309.0, 5641.0, 5588.0, 5280.0, 5508.0, 5410.0, 5331.0, 5346.0, 5289.0, 5416.0, 5316.0, 5703.0, 5661.0, 5415.0, 5437.0, 5283.0, 5436.0, 5375.0, 5613.0, 5295.0, 5662.0, 5252.0, 5492.0, 5568.0, 5275.0, 5268.0, 5577.0, 5480.0, 5285.0, 5279.0, 5606.0, 5586.0 (number of hits: 7)
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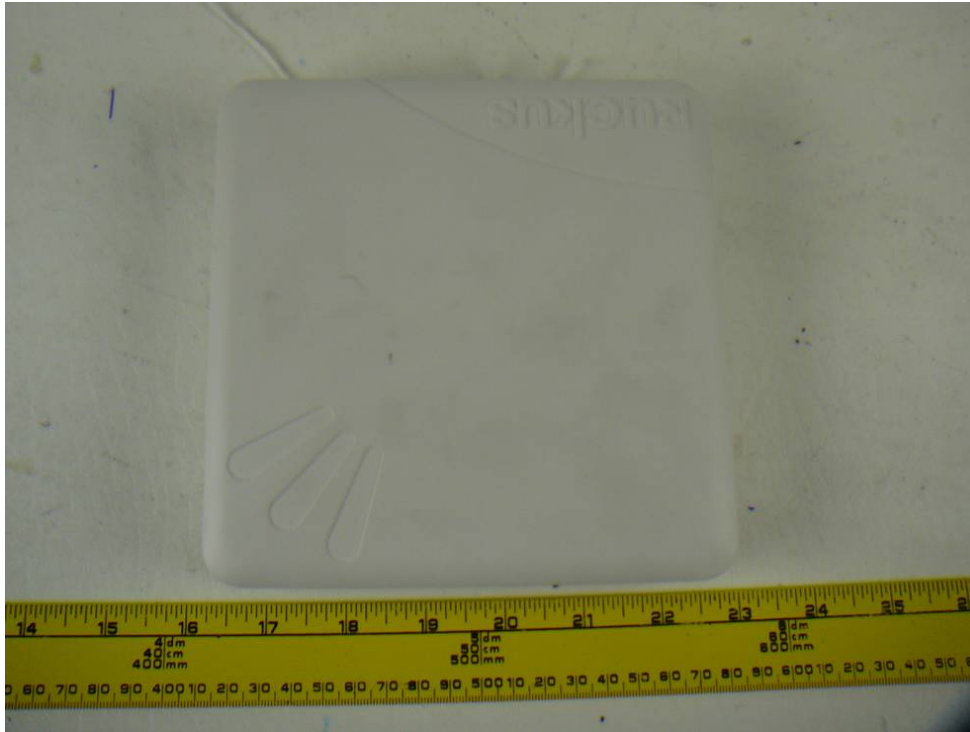
10 Appendix A – Test Setup Photographs

10.1 DFS Setup View

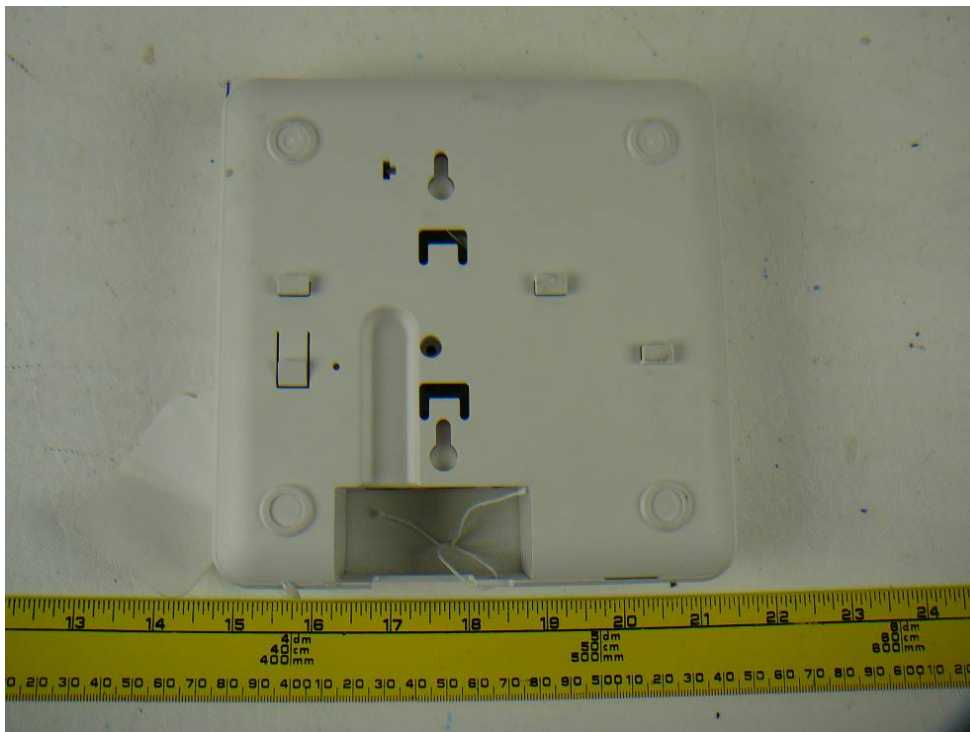


11 Appendix B - EUT Photographs

8.1 EUT- Top View



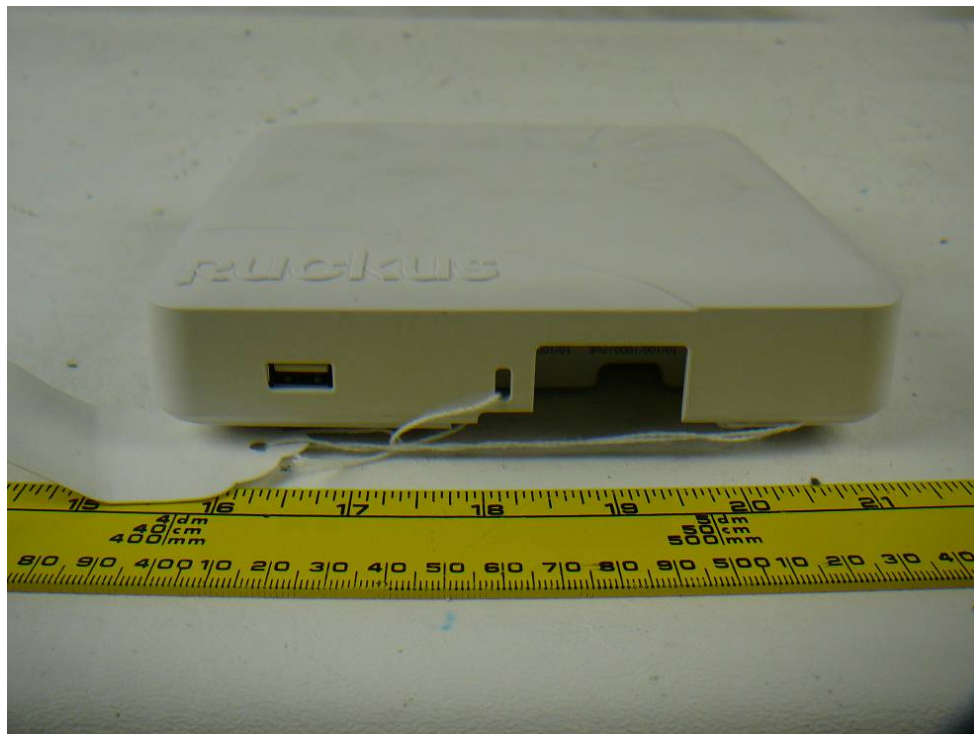
EUT- Bottom View



11.1 EUT- Front View



11.2 EUT- Rear View



11.3 EUT- Side View 1



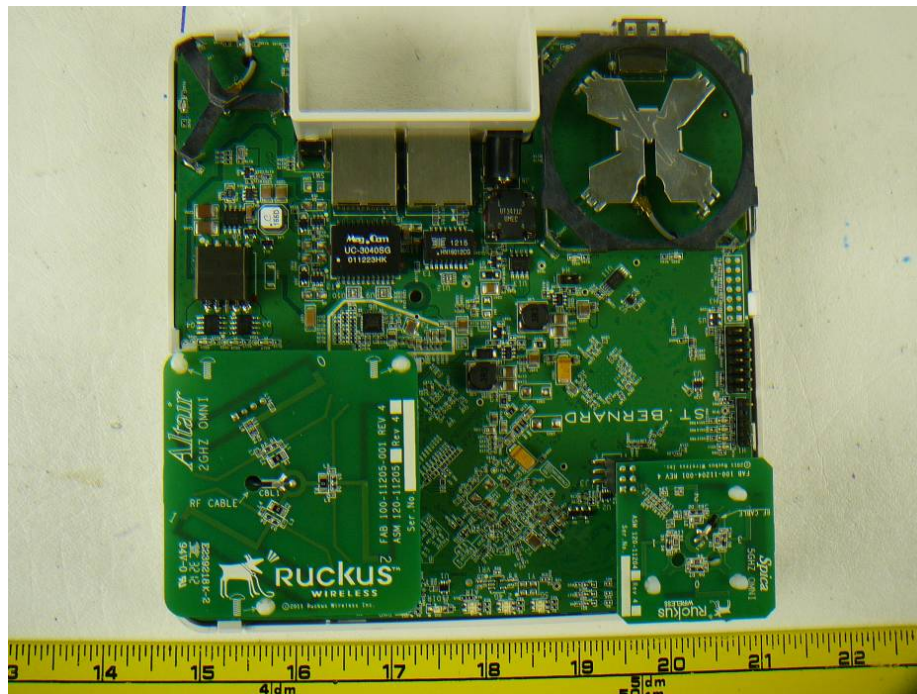
11.4 EUT- Side View 2



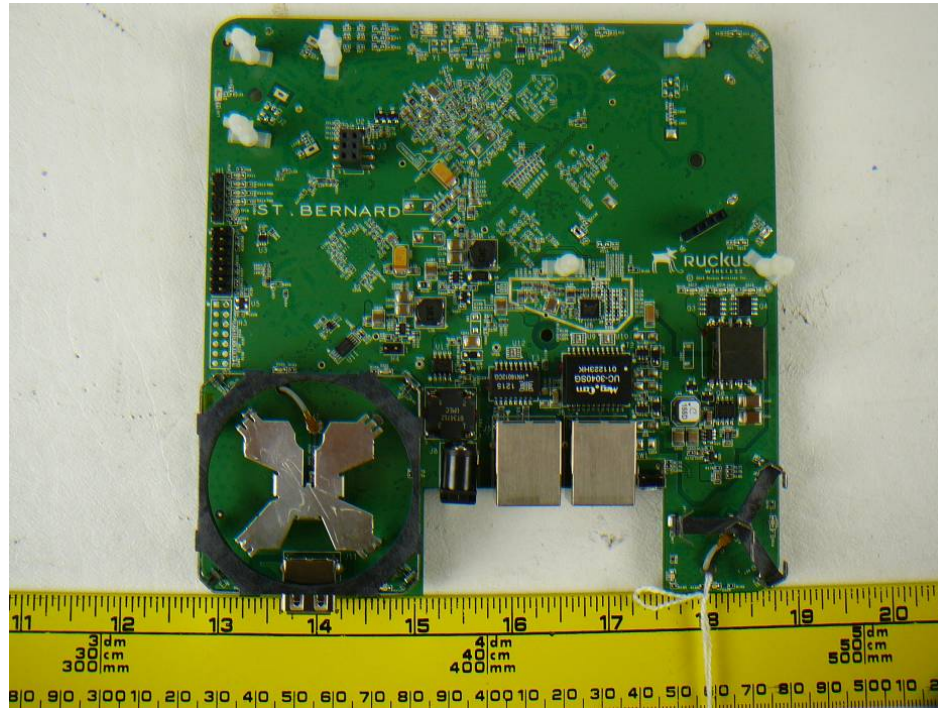
11.5 EUT – Port View



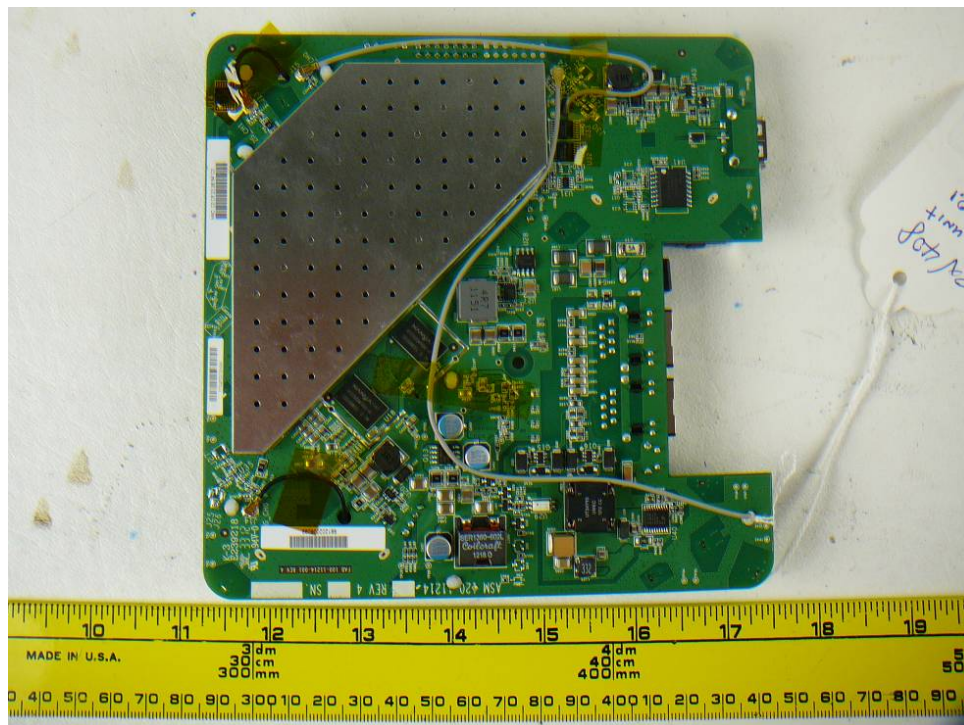
11.6 EUT – Open Chassis



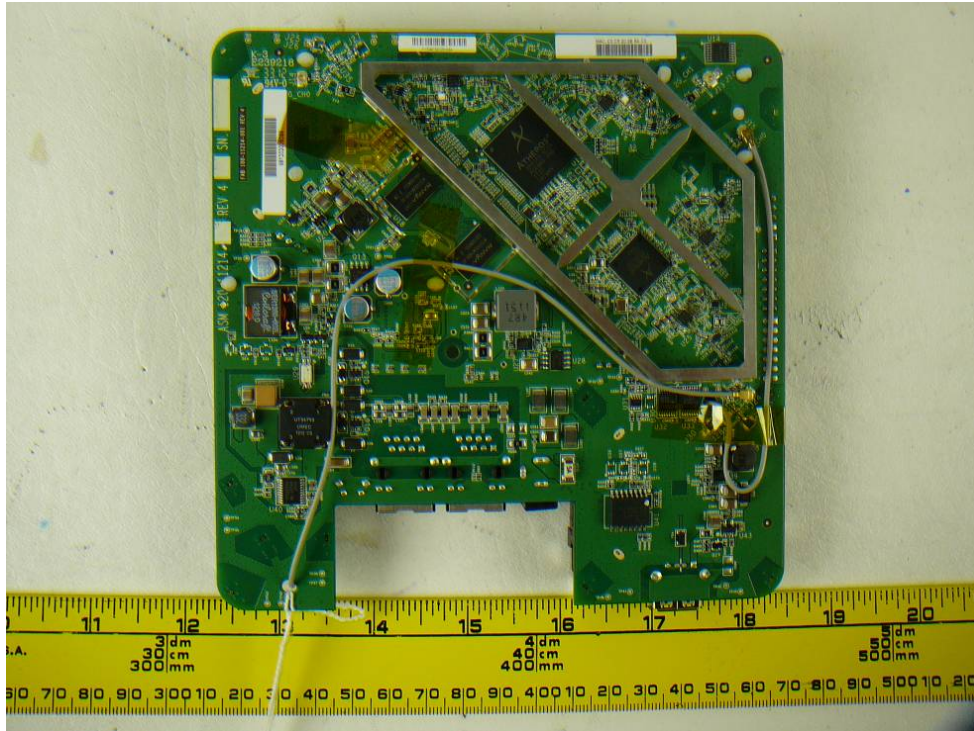
11.7 EUT – Main Board Top View



11.8 EUT– Main Board Bottom View with Shielding



11.9 EUT– Main Board Bottom View without Shielding



11.10 EUT – AC/DC Adapter



11.11 EUT – AC/DC Adapter Label



--- END OF REPORT ---