



FCC PART 15.407(H)
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

IDX Company, Ltd.

6-28-11 Shukugawara, Tama-ku, Kawasaki-shi Kanagawa-ken, Japan

FCC ID: OFJCW-1-12061202
Model: CW-1

Report Type: Original Report	Equipment Type: Wireless Video Transmission System (Rx Part)
Prepared By: Ning Ma 	
Report No.: R1207114-FCC DFS	
Report Date: 2012-08-13	
Reviewed By: Victor Zhang  EMC/RF Lead	
Bay Area Compliance Laboratories Corporation (BACL) 1274 Anvilwood Ave., Sunnyvale, CA 94089, USA Tel: (408) 732-9162 Fax: (408) 732 9164	

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by A2LA* or any agency of the Federal Government.

* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “*” (BAC-12)

TABLE OF CONTENTS

1	GENERAL DESCRIPTION.....	5
1.1	PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	5
1.2	MECHANICAL DESCRIPTION OF EUT	5
1.3	OBJECTIVE.....	5
1.4	RELATED SUBMITTAL(S)/GRANT(S)	5
1.5	TEST METHODOLOGY	5
1.6	TEST FACILITY	6
2	EUT TEST CONFIGURATION.....	7
2.1	JUSTIFICATION	7
2.2	EUT EXERCISE SOFTWARE.....	7
2.3	EQUIPMENT MODIFICATIONS	7
2.4	SPECIAL EQUIPMENT	7
2.5	LOCAL SUPPORT EQUIPMENT	7
2.6	POWER SUPPLY LIST AND DETAILS	7
2.7	EUT INTERNAL CONFIGURATION	7
2.8	EXTERNAL I/O CABLING LIST AND AC CORD	7
3	SUMMARY OF TEST RESULT	8
4	APPLICABLE STANDARDS.....	9
4.1	DFS REQUIREMENT	9
4.2	DFS MEASUREMENT SYSTEM	11
4.3	SYSTEM BLOCK DIAGRAM.....	12
4.4	CONDUCTED METHOD	12
4.5	RADIATED METHOD	14
4.6	TEST PROCEDURE	14
5	TEST RESULTS.....	15
5.1	DESCRIPTION OF EUT.....	15
5.2	TEST EQUIPMENT.....	15
5.3	RADAR WAVEFORM CALIBRATION.....	16
5.4	TEST ENVIRONMENTAL CONDITIONS.....	16
6	CHANNEL AVAILABILITY CHECK TIME (CAC)	23
6.1	TEST PROCEDURE	23
7	CHANNEL MOVE TIME & CHANNEL CLOSING TRANSMISSION TIME.....	30
7.1	TEST PROCEDURE	30
7.2	TEST RESULTS	30
8	NON-OCCUPANCY PERIOD.....	39
8.1	TEST PROCEDURE	39
8.2	RESULTS	39
9	DETECTION BANDWIDTH.....	41
9.1	PROCEDURE	41
9.2	RESULTS	41
9.3	RADAR DETECTION	44
10	APPENDIX A - TEST SETUP PHOTOGRAPHS	112
10.1	DFS SETUP VIEW	112

11 APPENDIX B - EUT PHOTOGRAPHS 113

11.1 EUT TOP VIEW 113

11.2 EUT BOTTOM VIEW 113

11.3 EUT SIDE VIEW 1 114

11.4 EUT SIDE VIEW 2 114

11.5 EUT SIDE VIEW 3 115

11.6 EUT SIDE VIEW 4 115

11.7 EUT OPEN CHASSIS TOP VIEW 116

11.8 EUT OPEN CHASSIS BOTTOM VIEW 116

11.9 MOTHER BOARD WITHOUT SHIELDING TOP VIEW 117

11.10 MOTHER BOARD WITHOUT SHIELDING BOTTOM VIEW 117

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1207114-FCC DFS	Original Report	2012-08-13

1 GENERAL DESCRIPTION

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *IDX Company, Ltd.*, and their product FCC ID: OFJCW-1-12061202, model: CW-1. The EUT is a Wireless Video Transmission System (Rx Part).

Item	Technical Specification
Frequencies	W53: 5270 MHz, 5310 MHz W56: 5510 MHz, 5550 MHz, 5670 MHz
Channel Bandwidth	40 MHz
Modulation	OFDM
Output Power	18 dBm
Antenna Gain	2.0 dBi

1.2 Mechanical Description of EUT

The EUT measures approximately 10 cm (L) X 5.6 cm (W) X 2.2 cm (H) and weighs approximately 77.5 g.

The data gathered are from a production sample provided by the manufacturer, serial number: R1207114 assigned by BACL.

1.3 Objective

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

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

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

FCC 06-96 Appendix “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION”

1.6 Test Facility

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.: R-3729, C-4176, G-469, and T-1206. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

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

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

2 EUT TEST CONFIGURATION

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(H) Standard.

2.2 EUT Exercise Software

The software version is MAC_4.x.24.2, was provided by customer and verified by Ning Ma to comply with the standard requirements being tested against.

2.3 Equipment Modifications

Includes reference to the location of the pictures

2.4 Special Equipment

N/A

2.5 Local Support Equipment

Manufacturers	Description	Models	Serial Number
Panasonic	Blu-ray Disc Player	DMP-BD77P-K	NA2BA006059

2.6 Power Supply List and Details

Manufacturer	Description	Model Number	Serial Number
KUANTEN	Adapter	SSA051F050100USU	-

2.7 EUT Internal Configuration

Manufacturer	Objects/Parts	Model	Series Number
IDX	Mother Board	-	-

2.8 External I/O Cabling List and AC Cord

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

3 SUMMARY OF TEST RESULT

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

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 §15.407 (h) and FCC 06-96 Appendix.

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (Without radar detection)	Client (With radar detection)
Non-Occupancy Period	Yes	Not Required	Yes
DFS Detection Threshold	Yes	Not Required	Yes
Channel Availability Check Time	Yes	Not Required	Not Required
Uniform Spreading	Yes	Not Required	Not Required
U-NII Detection Bandwidth	Yes	Not Required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client (Without DFS)	Client (With DFS)
DFS Detection Threshold	Yes	Not Required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes

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

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.	

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 80% of the UNII 99% transmission power bandwidth. See Note 3.
Note 1: The instant that the <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

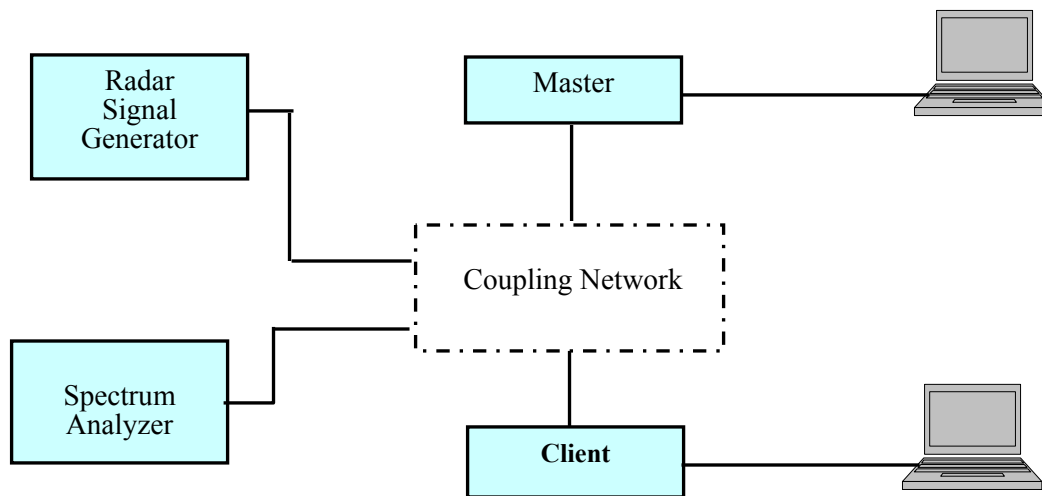
Table 7: Frequency Hopping Radar Test Signal

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

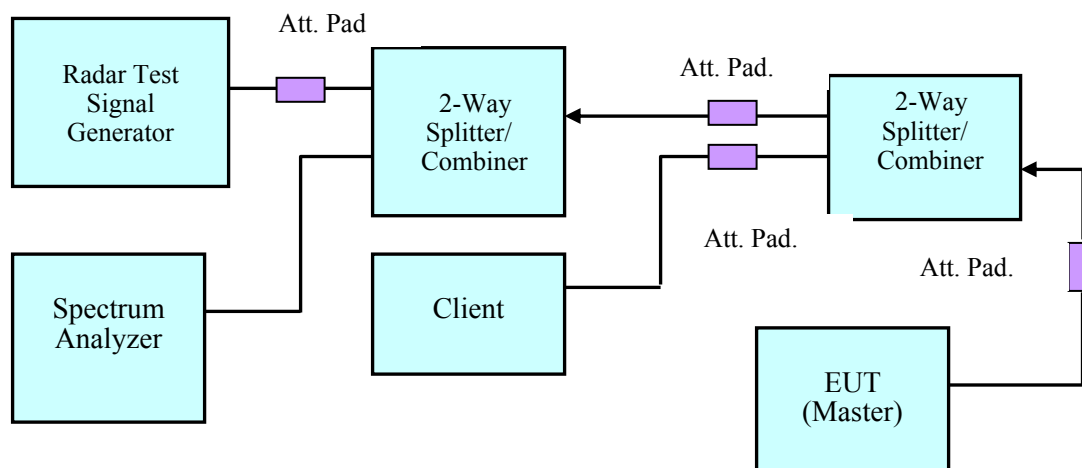
4.2 DFS Measurement System

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

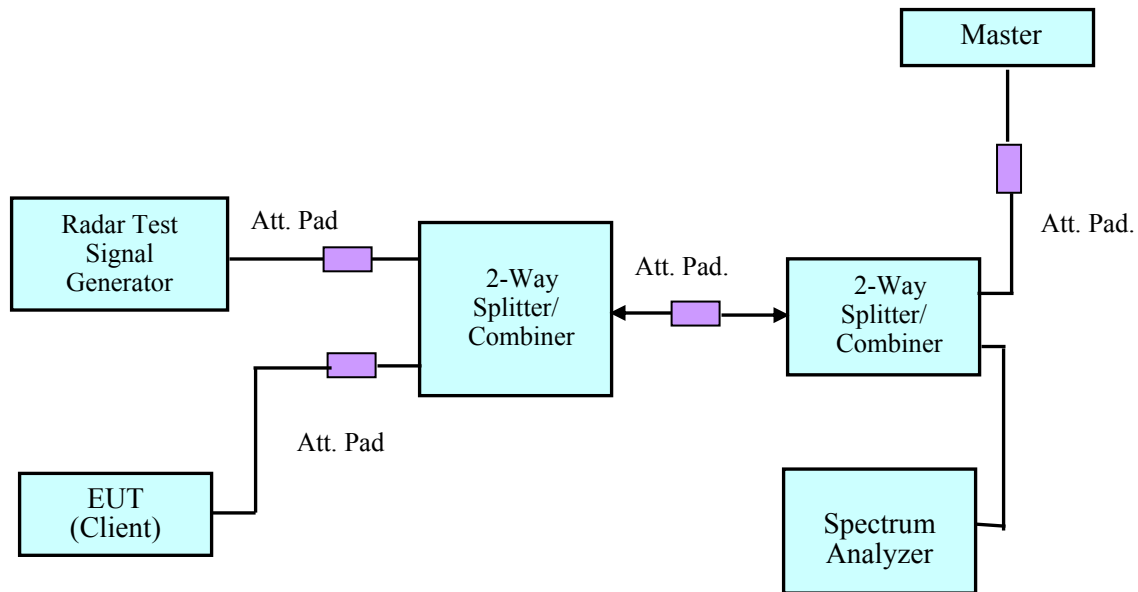
4.3 System Block Diagram



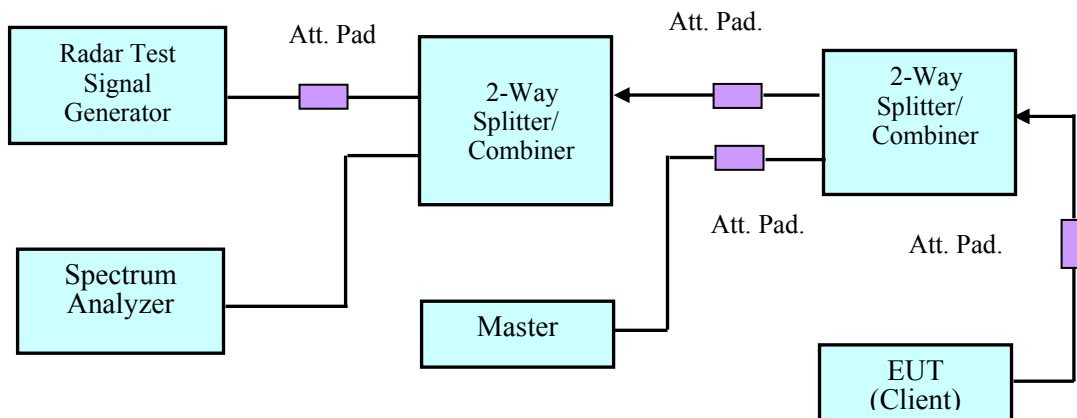
4.4 Conducted Method



Setup for Master with injection at the Master

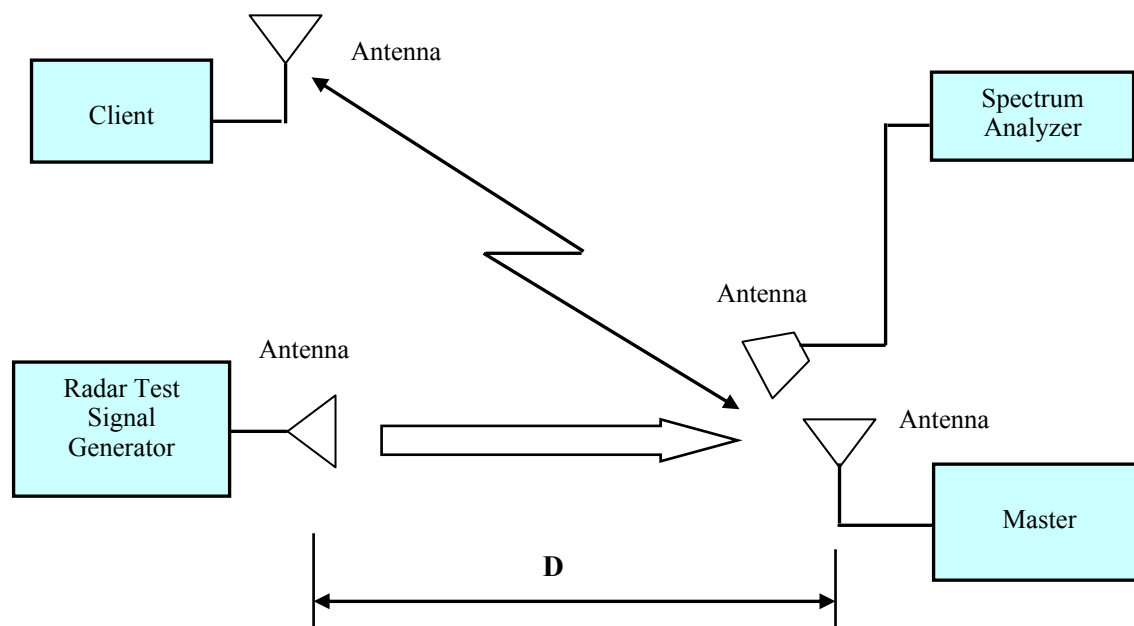


Setup for Client with injection at the Master



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 less than 23 dBm (EIRP), 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 22 seconds to complete its initial power-up cycle.

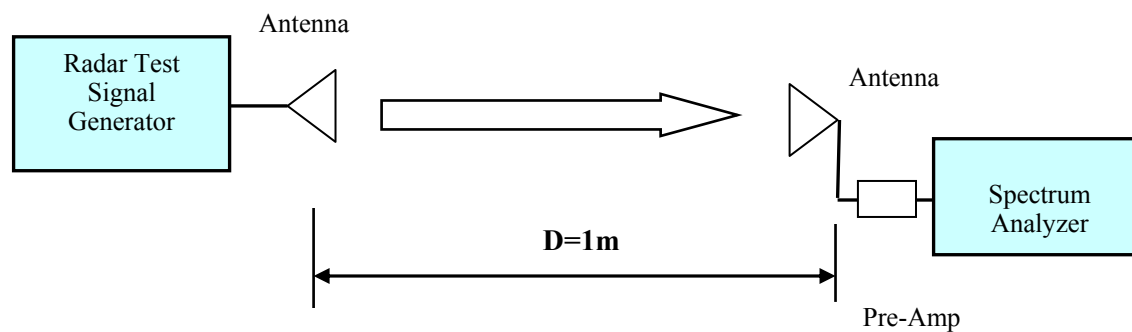
The EUT will not work on 5600-5650MHz band.

5.2 Test Equipment

Equipment Description	Manufacturer	Model Number	S/N
NI PXI-1042 8-Slot chassis	National Instruments	PXI-1042	V08X01EE1
Arbitrary Waveform Generator	National Instruments	PXI-5421	N/A
RF Upconverter	National Instruments	PXI-5610	N/A
Upconverter	ASCOR	AS-7206	N/A
Spectrum Analyzer	Agilent	E4440A	MY44303352
Amplifier	Agilent	8449B	3008A01978
Splitter/Combiner	Ditom	00261	N/A
Attenuator	Narda	M3933/14-01	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

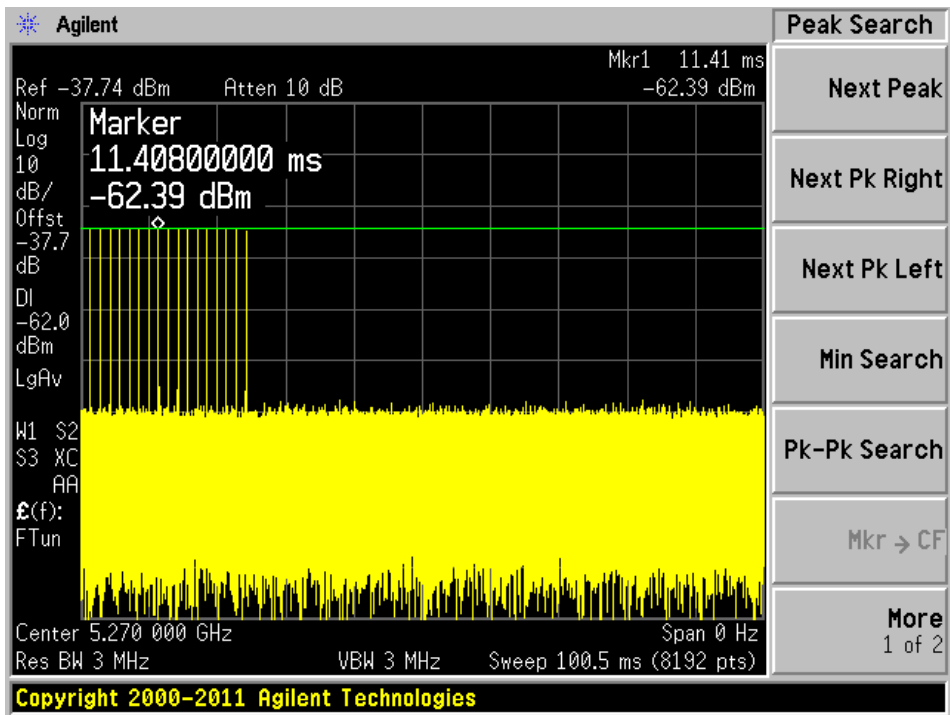
Temperature:	21.5 °C
Relative Humidity:	45.6 %
ATM Pressure:	1015 mbar

The testing is performed by Ning Ma on 2012-07-21 at DFS testing site.

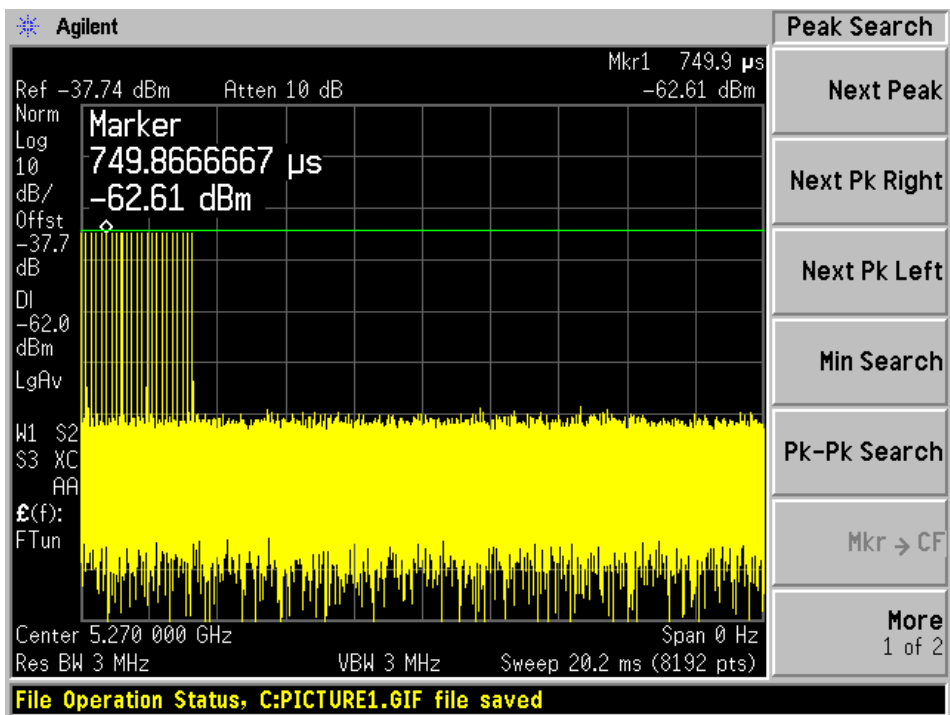
Plots of Radar Waveforms

5270 MHz

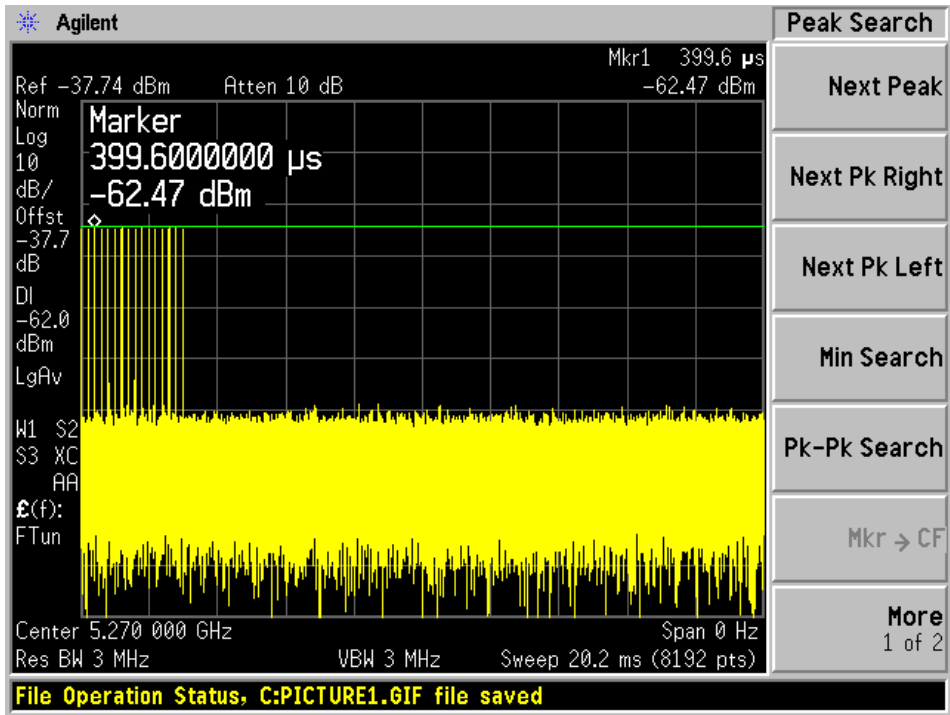
Radar Type 1



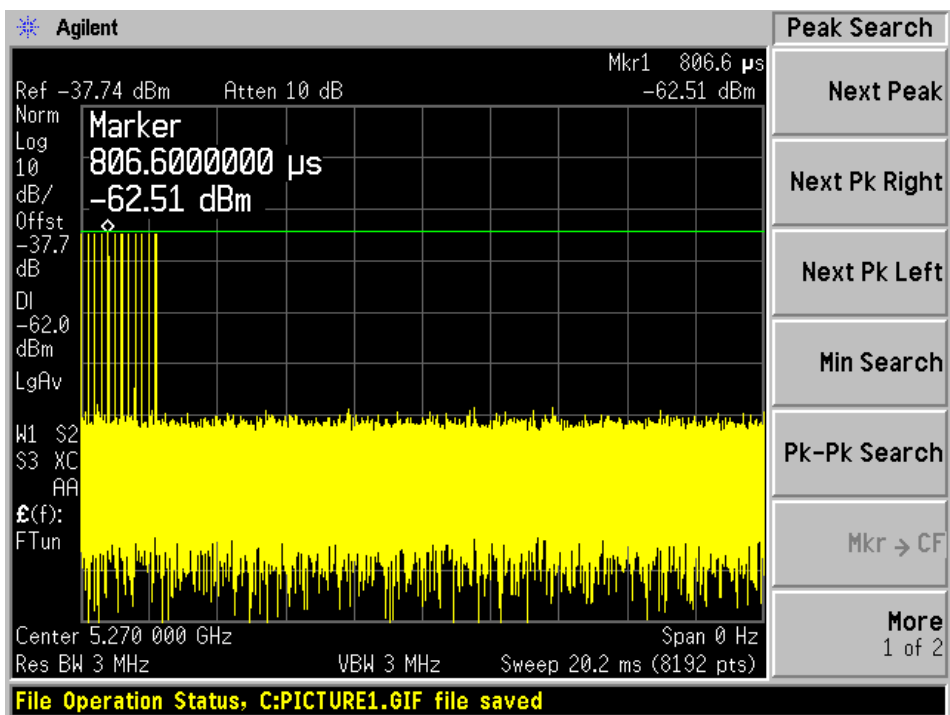
Radar Type 2



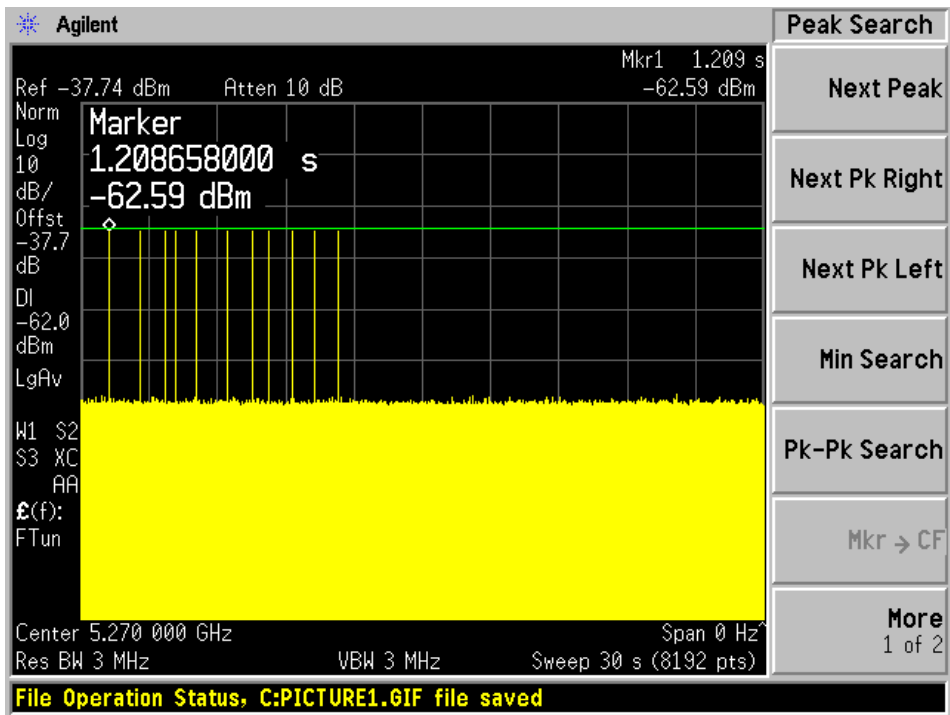
Radar Type 3



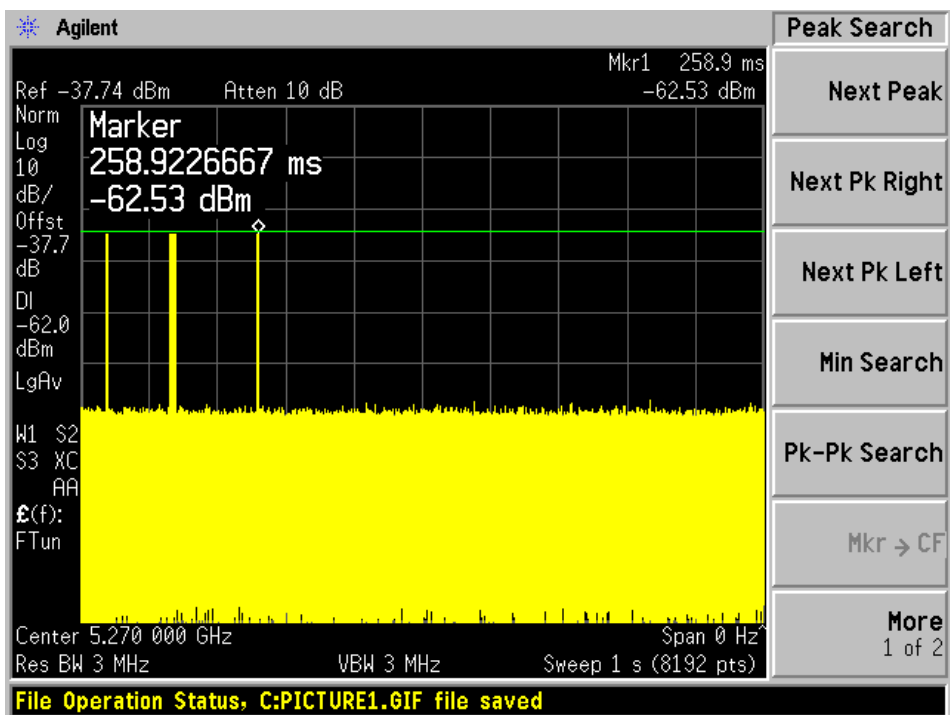
Radar Type 4



Radar Type 5

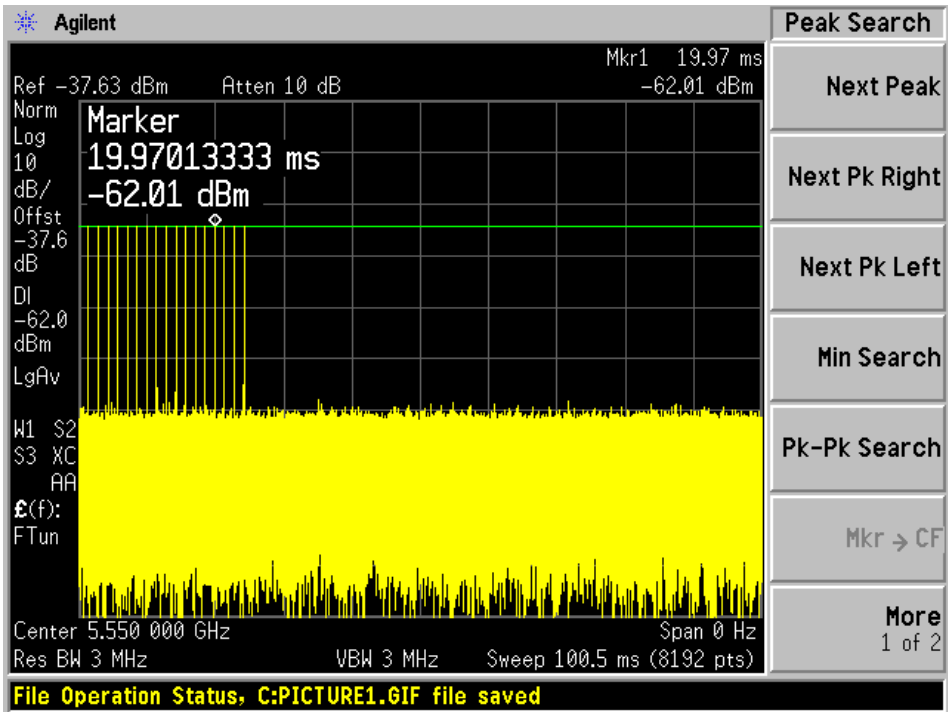


Radar Type 6

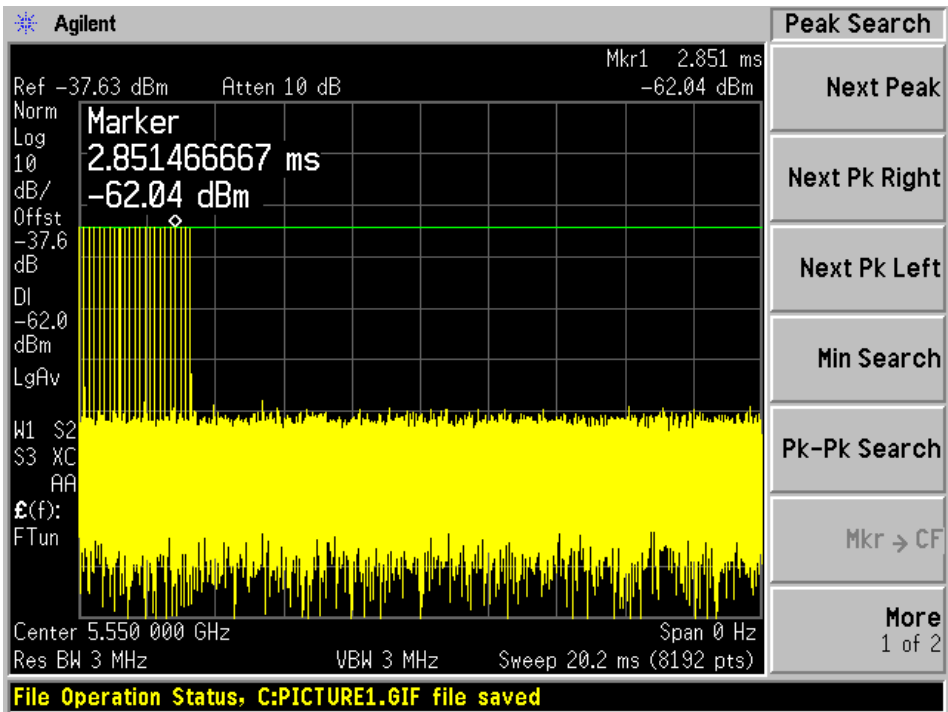


5550 MHz

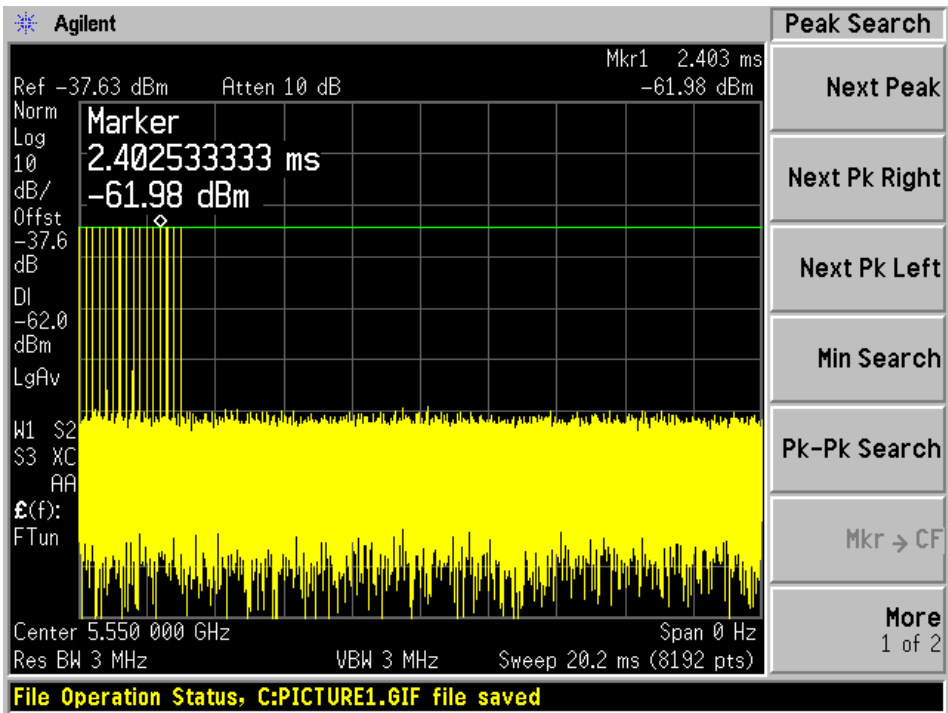
Radar Type 1



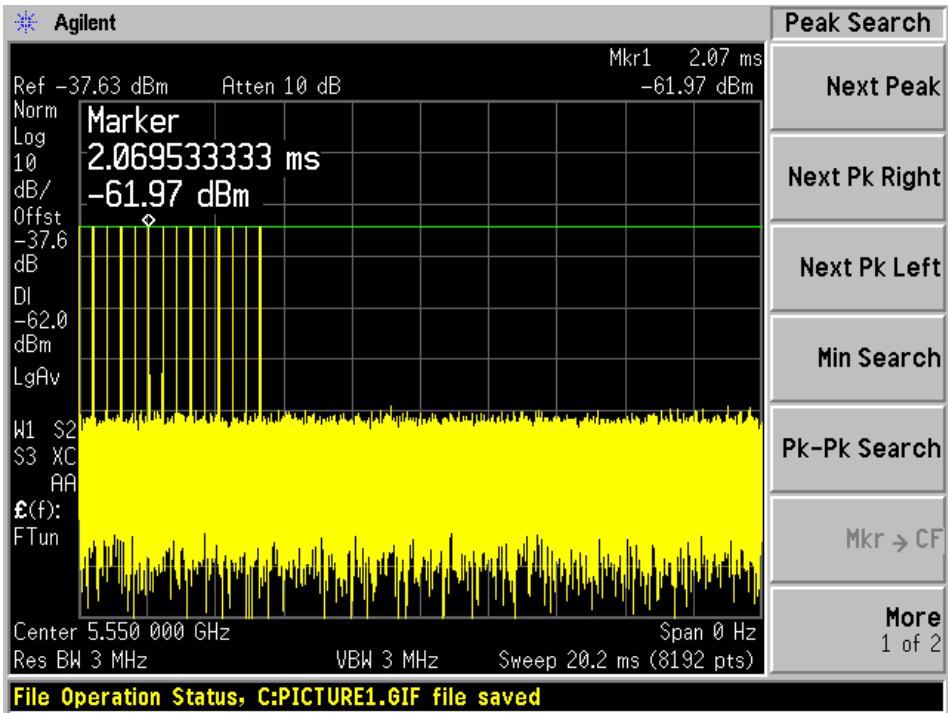
Radar Type 2



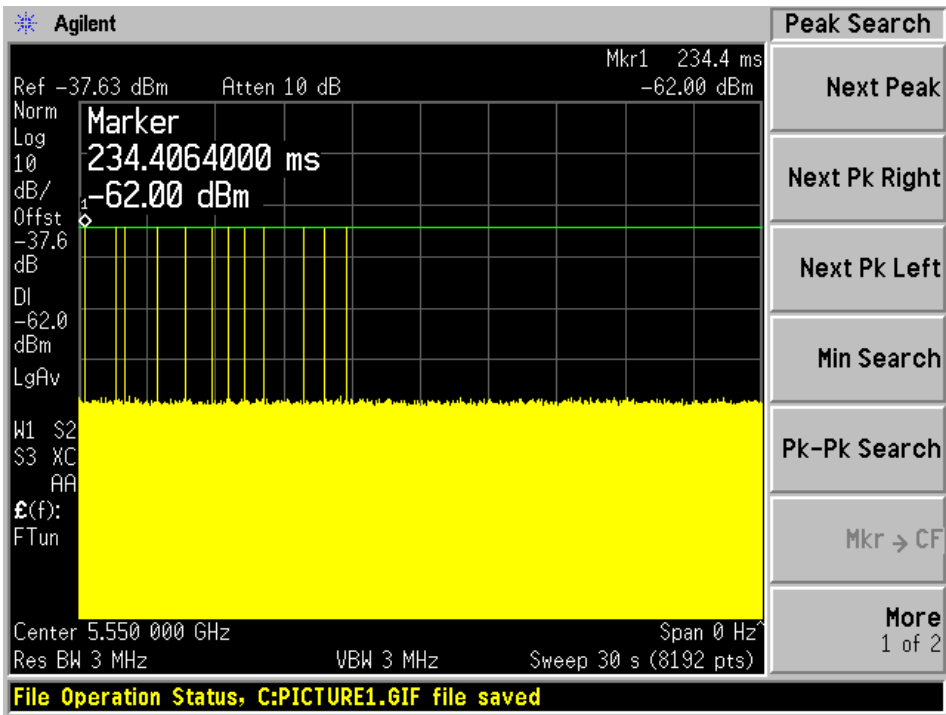
Radar Type 3



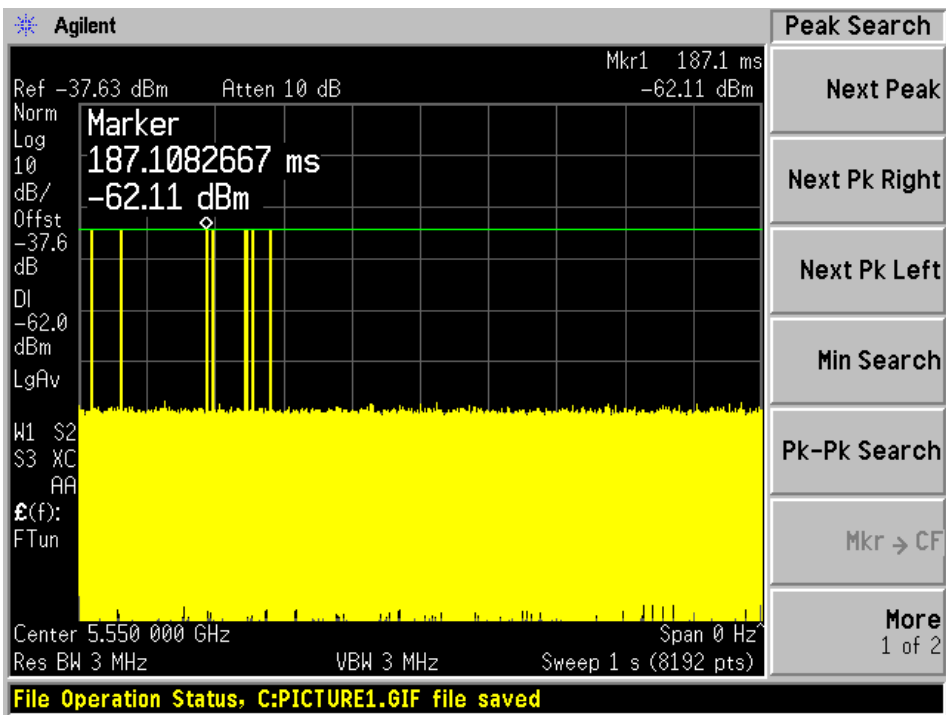
Radar Type 4



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

5270 MHz Bandwidth 40 MHz

EUT initial Power-up cycle (Second)
22

5550 MHz Bandwidth 40 MHz

EUT initial Power-up cycle (Second)
23

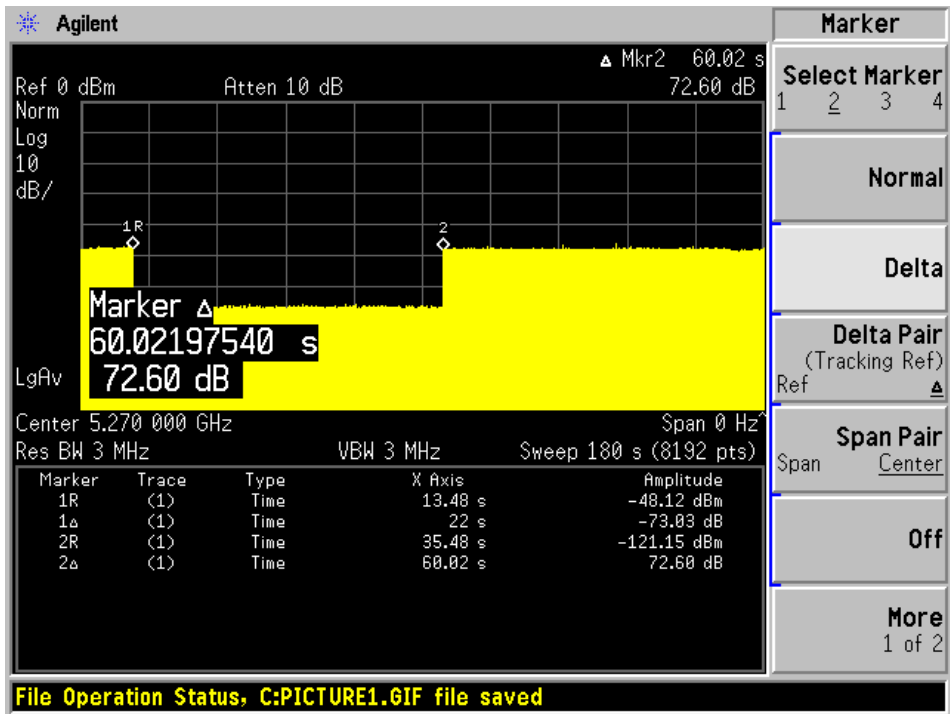
Results:

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.

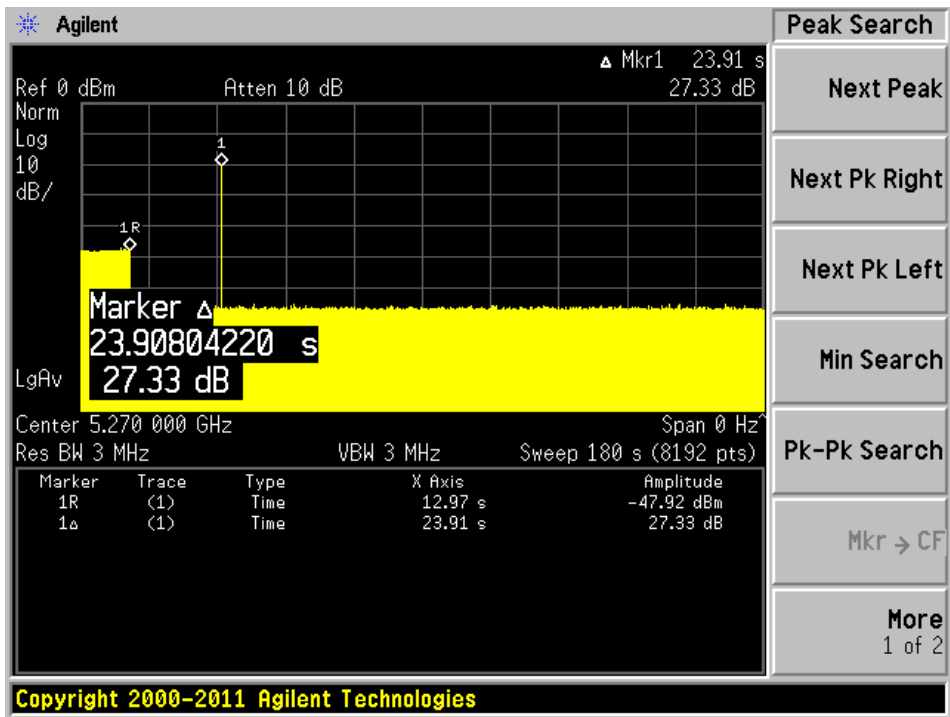
5270 MHZ Bandwidth 40 MHz

Plot of without Radar signal applied



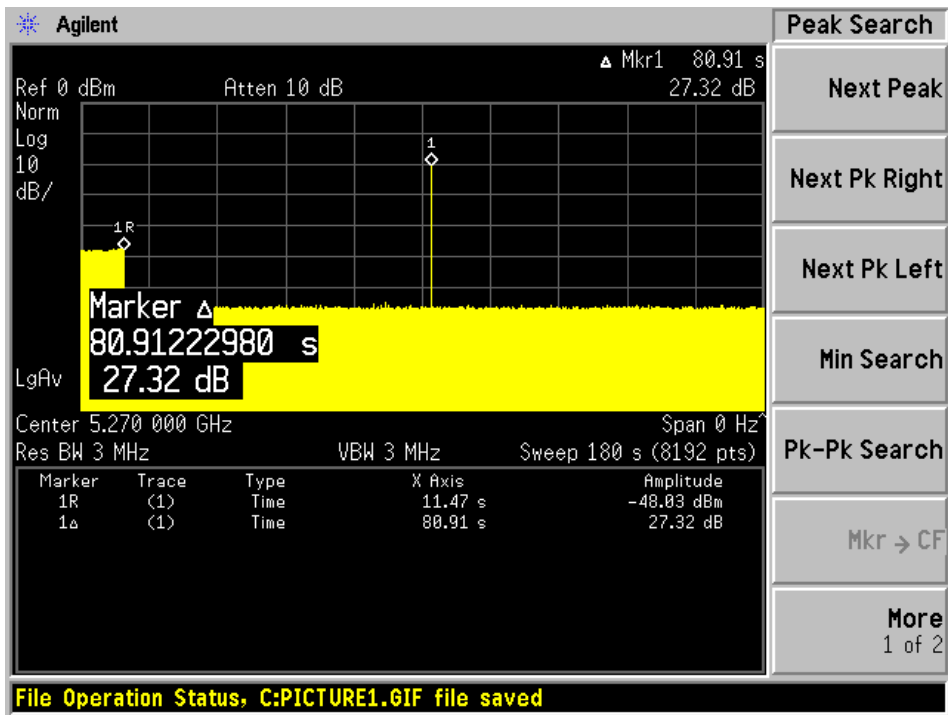
Note: The power-up cycle is 22 seconds.

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



No transmissions found after radar signal applied.

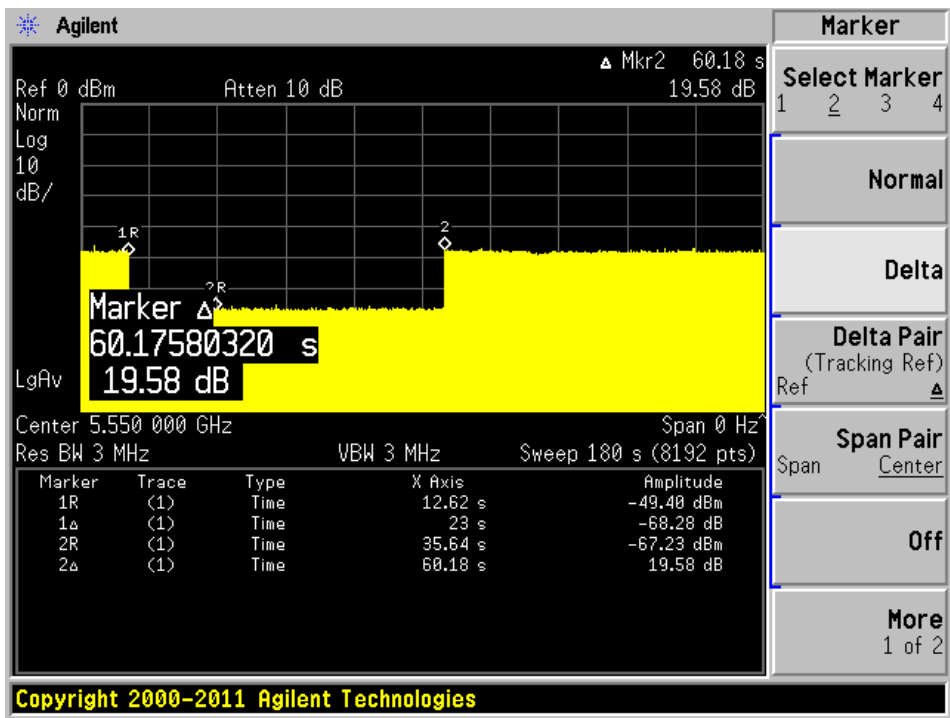
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

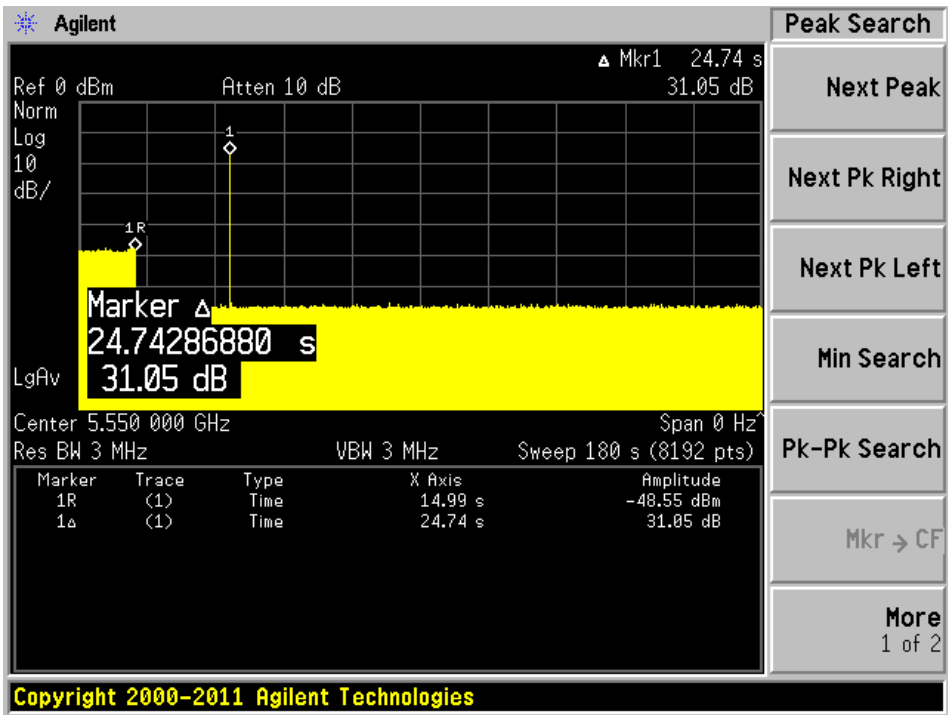
5550 MHZ Bandwidth 40 MHz

Plot of without Radar signal applied



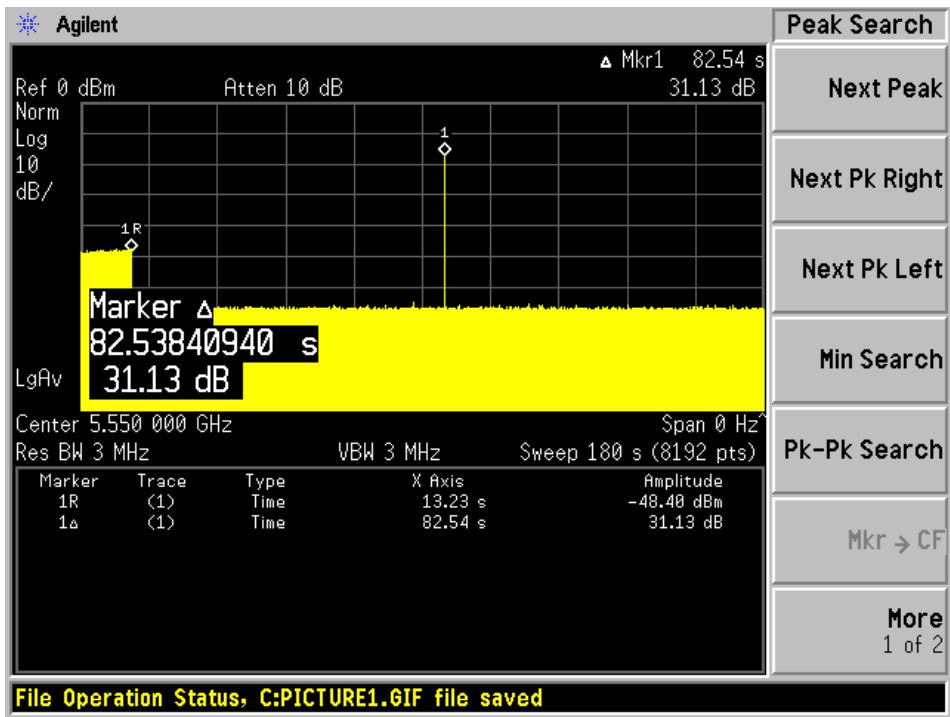
Note: The power-up cycle is 23 seconds.

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.

7 CHANNEL MOVE TIME & CHANNEL CLOSING TRANSMISSION TIME

7.1 Test Procedure

Perform one of the type1 to type 4 short pulse radar waveform, BACL use type 3 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)

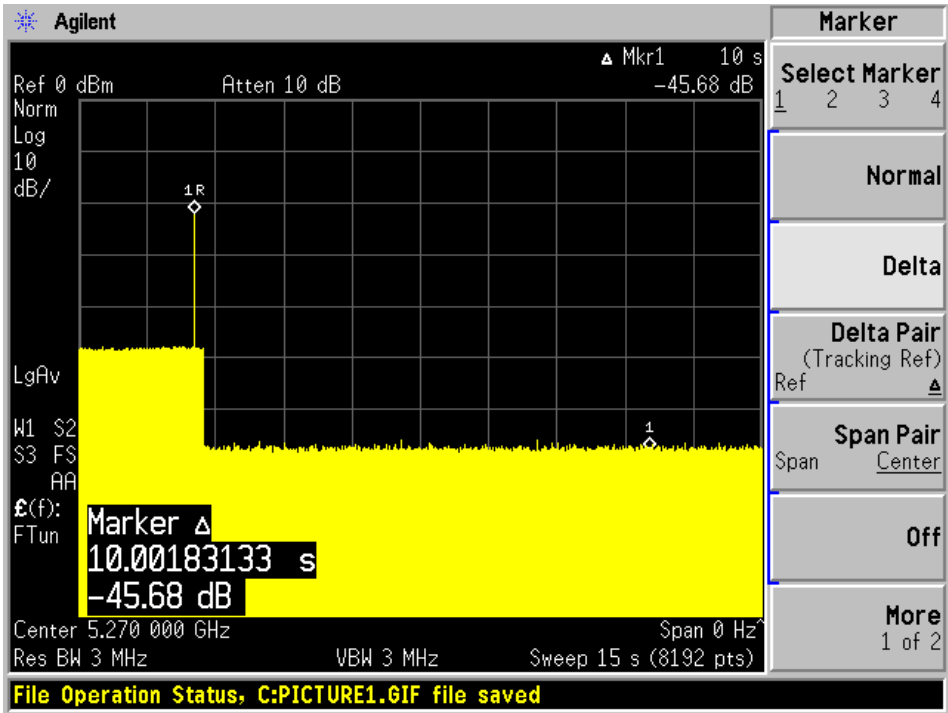
7.2 Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5270	40	Type 3	Compliant
		Type 5	Compliant
5550	40	Type 3	Compliant
		Type 5	Compliant

Please refer to the following tables and plots.

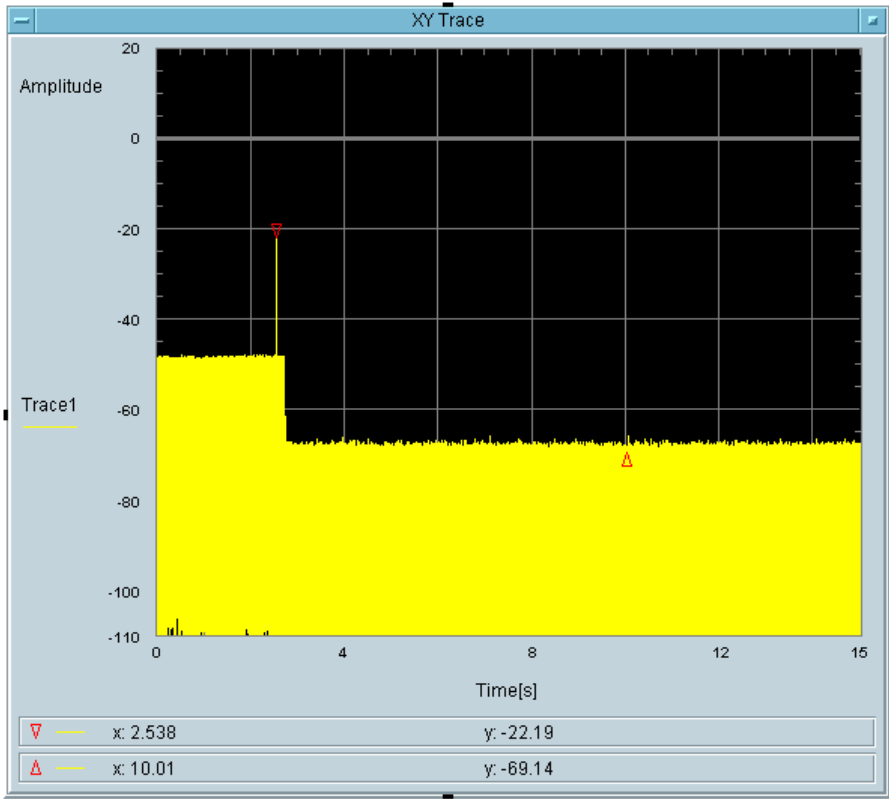
5270 MHz Bandwidth 40 MHz

Type 3 radar channel move time result:



Type3 radar channel closing transmission time result:

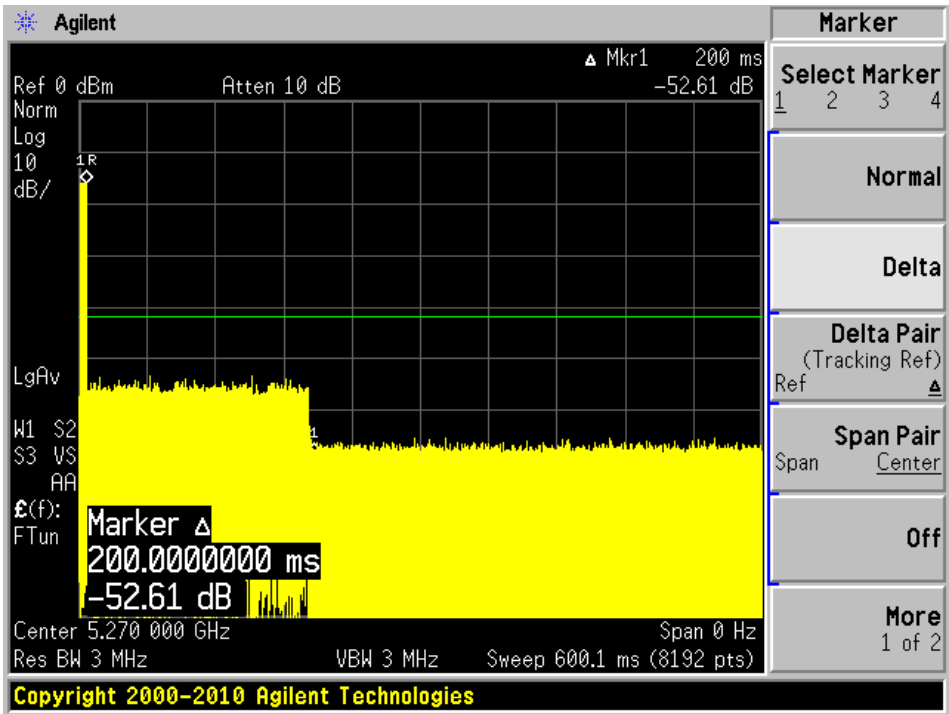
Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.156	60	50.844



Total On Time [s]
20.14m

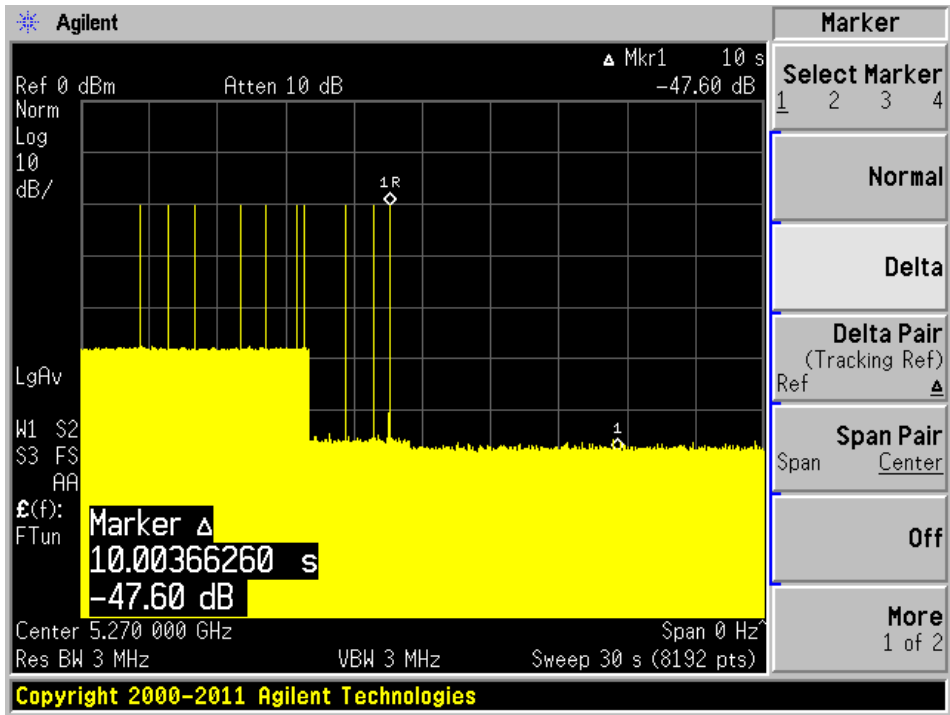
Total On Time After Delay [s]
9.156m

Type3 radar 600ms result:



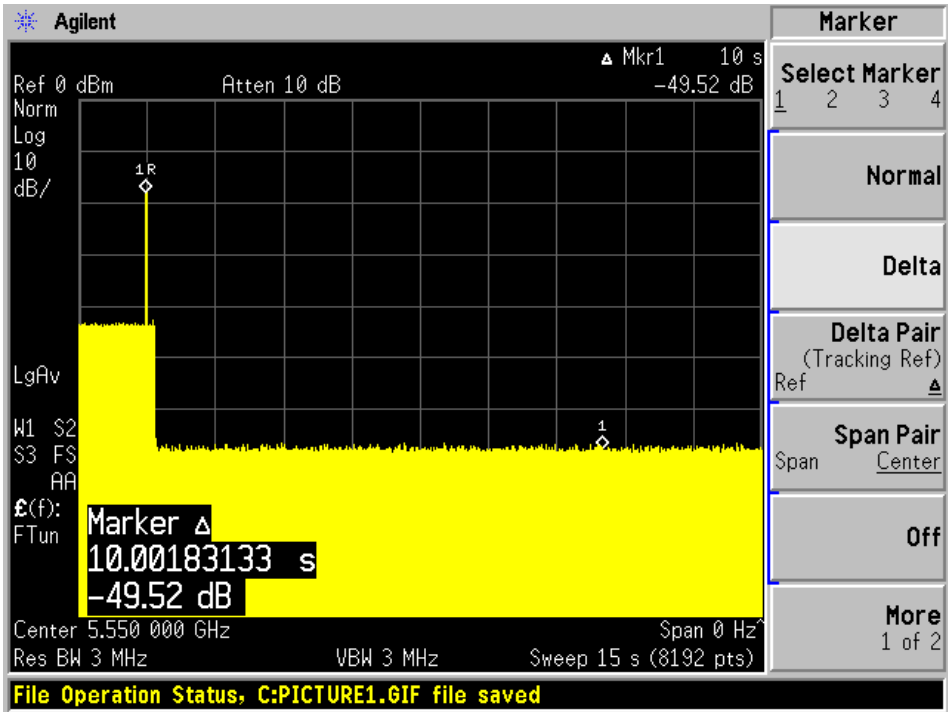
Type 5 radar channel move time result:

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.



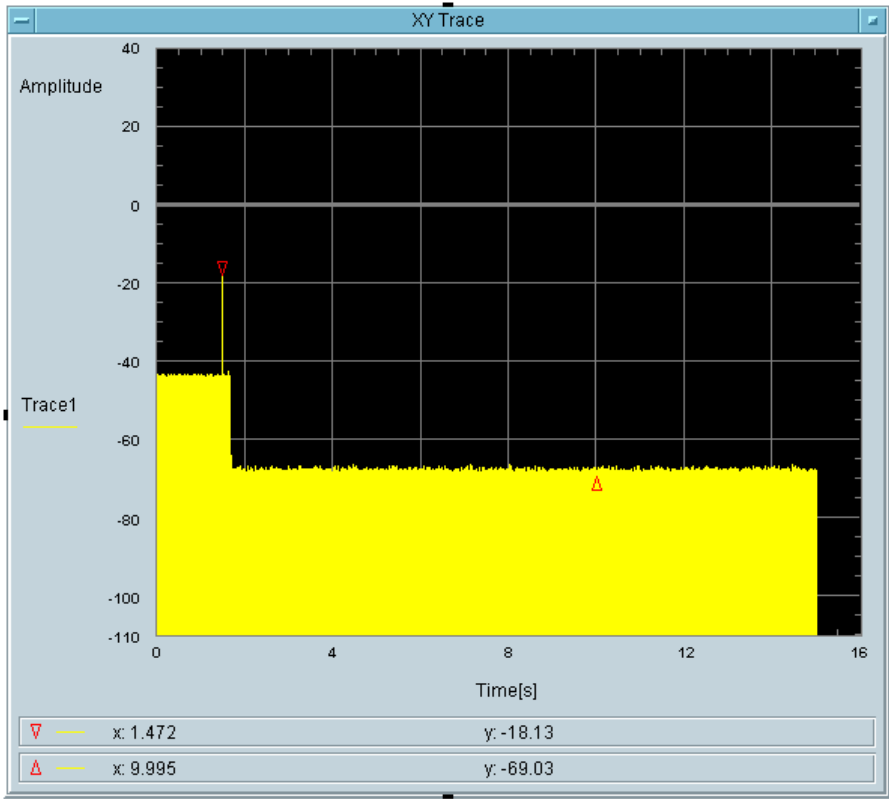
5550 MHz Bandwidth 40 MHz

Type 3 radar channel move time result:



Type3 radar channel closing transmission time result:

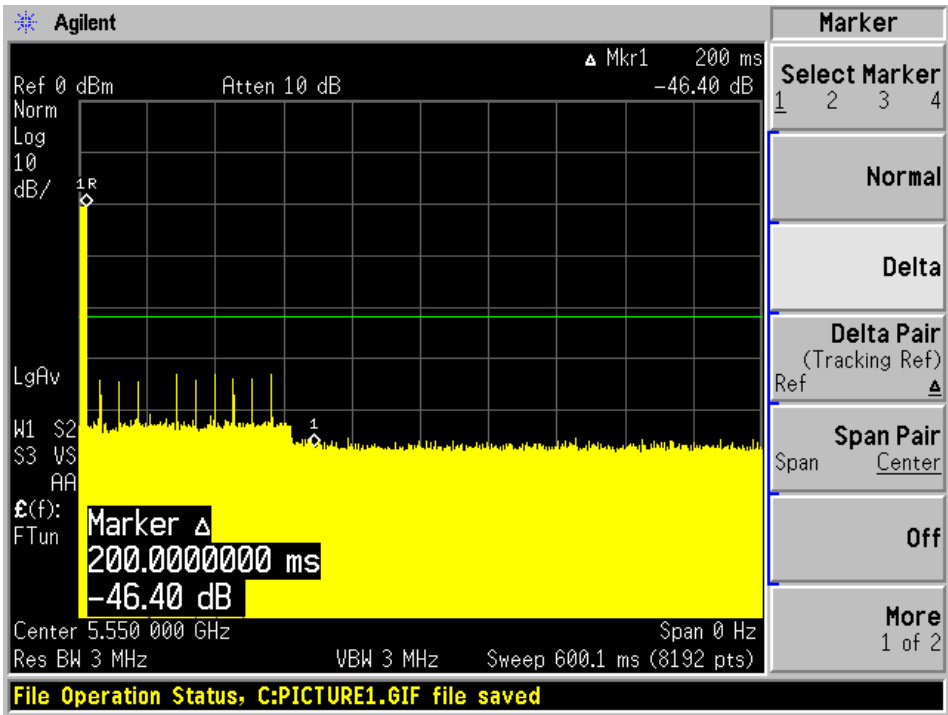
Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
7.324	60	52.676



Total On Time [s]
20.14m

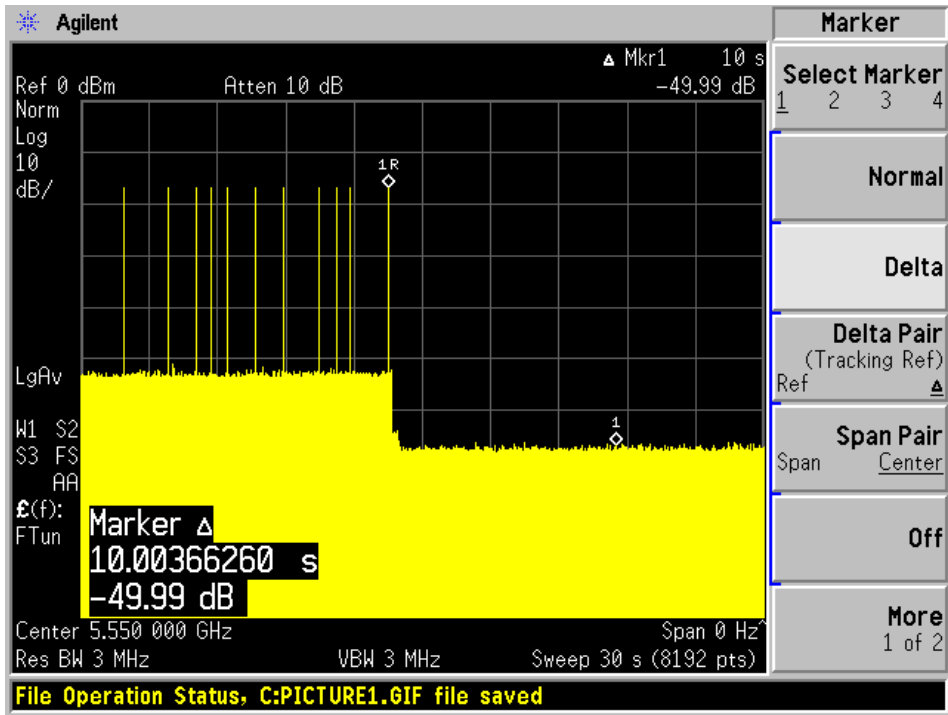
Total On Time After Delay [s]
7.324m

Type3 radar channel 600ms result:



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

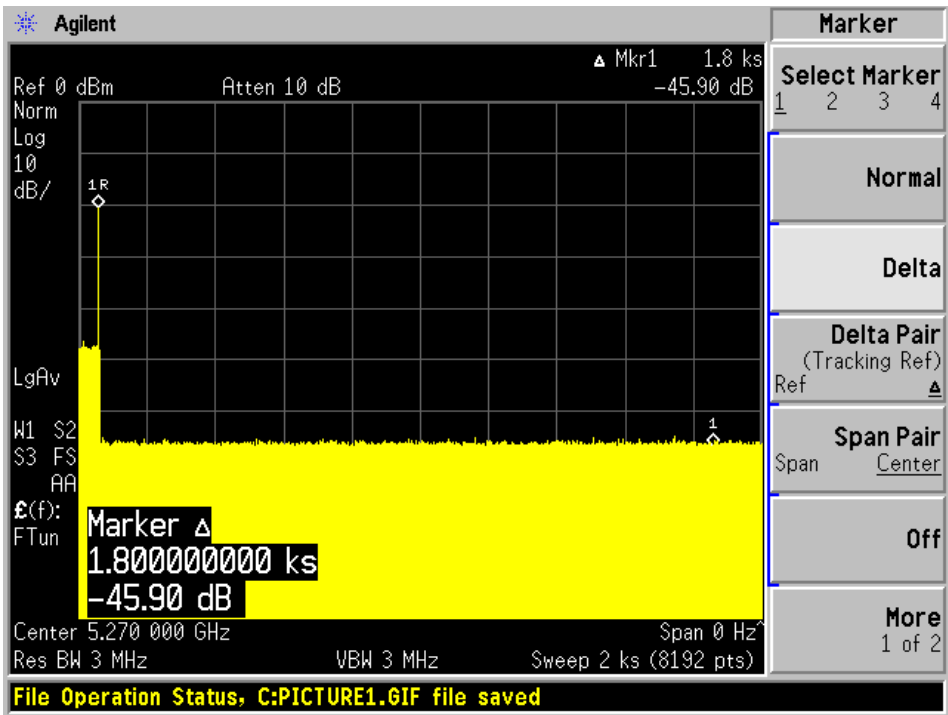
Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Results

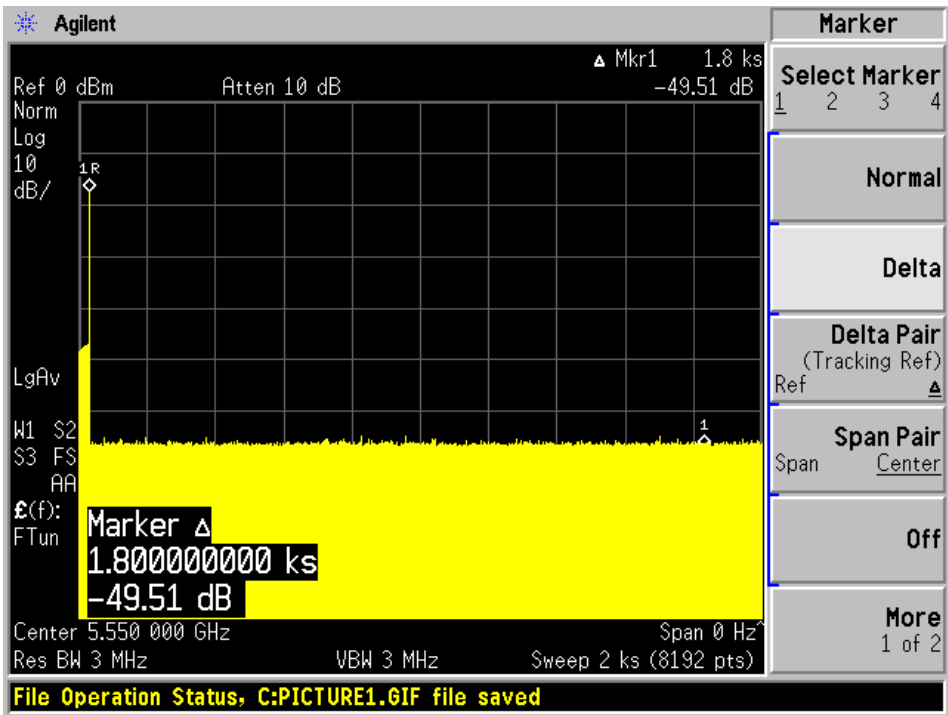
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5270	40	No transmission within 30 minutes
5550	40	No transmission within 30 minutes

Please refer to the following plots.

5270 MHz



5550 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 Results

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5270	5250	5290	40	80%	Compliance
5550	5529	5571	40	80%	Compliance

Please refer to the following tables and plots.

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	1	0	1	1	0	1	1	50 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5252	1	1	1	0	1	1	1	1	0	1	80 %
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	0	1	1	1	1	90 %
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	0	1	90 %
5270(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	0	1	1	1	90 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5276	1	0	1	1	1	1	1	1	1	1	90 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5284	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5288	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	1	0	1	0	0	1	1	0	0	0	40 %
Detection Bandwidth = $F_H - F_L = 5290 - 5250 = 40$ MHz											
EUT 99% BW = 38.64 MHz; 38.64 * 80% = 30.912 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 (%)
5528	0	0	0	0	0	0	0	0	0	0	0 %
5529(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5530	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	0	1	1	1	1	1	90 %
5538	0	1	1	1	1	0	1	1	1	1	80 %
5540	1	1	0	1	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	0	1	1	0	1	80 %
5546	1	1	1	1	1	1	1	0	1	1	90 %
5548	1	1	1	1	0	1	1	1	1	1	90 %
5550 (F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5552	1	1	1	1	1	1	1	1	1	0	90 %
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	0	0	1	1	80 %
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	1	1	1	1	0	1	1	1	1	1	90 %
5571(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5572	0	0	0	0	0	1	1	0	1	0	30 %
Detection Bandwidth = F _H – F _L = 5571-5529 = 42 MHz											
EUT 99% BW = 38.78 MHz; 38.78 * 80% = 31.024 MHz								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:

5270 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	90 %	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	93.3 %	80%	Pass
Type 5	30	90 %	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	5270	18	1	1428	0
2	5270	18	1	1428	1
3	5270	18	1	1428	1
4	5270	18	1	1428	1
5	5270	18	1	1428	1
6	5270	18	1	1428	1
7	5270	18	1	1428	1
8	5270	18	1	1428	1
9	5270	18	1	1428	1
10	5270	18	1	1428	1
11	5270	18	1	1428	1
12	5270	18	1	1428	1
13	5270	18	1	1428	1
14	5270	18	1	1428	1
15	5270	18	1	1428	1
16	5270	18	1	1428	1
17	5270	18	1	1428	1
18	5270	18	1	1428	1
19	5270	18	1	1428	1
20	5270	18	1	1428	0
21	5270	18	1	1428	1
22	5270	18	1	1428	1
23	5270	18	1	1428	1
24	5270	18	1	1428	1
25	5270	18	1	1428	1
26	5270	18	1	1428	1
27	5270	18	1	1428	1
28	5270	18	1	1428	1
29	5270	18	1	1428	0
30	5270	18	1	1428	1
Detection Percentage: 90 % (>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	28	3.8	170	1
2	5270	29	2.6	168	1
3	5270	25	4	202	1
4	5270	24	4.2	183	1
5	5270	26	4	169	1
6	5270	26	1.1	216	1
7	5270	25	4.9	167	1
8	5270	26	1	175	1
9	5270	23	3.3	211	0
10	5270	23	3.2	204	1
11	5270	24	2.1	199	1
12	5270	26	2.6	230	1
13	5270	28	1	199	1
14	5270	26	4.2	163	1
15	5270	24	1.9	182	1
16	5270	25	5	200	1
17	5270	28	4.2	219	1
18	5270	23	2.1	207	1
19	5270	27	4.2	203	1
20	5270	27	2.8	162	1
21	5270	26	1.7	201	1
22	5270	24	3.4	225	1
23	5270	23	1.1	180	1
24	5270	28	2	181	1
25	5270	23	1.7	159	1
26	5270	24	2.6	202	1
27	5270	27	2.6	170	1
28	5270	24	2.8	203	1
29	5270	24	3.1	169	1
30	5270	23	2.8	214	0
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	5270	16	6	325	1
2	5270	18	9.1	433	1
3	5270	16	8.3	241	1
4	5270	18	7.7	431	1
5	5270	16	7.6	287	1
6	5270	17	7.6	247	1
7	5270	18	7.1	449	1
8	5270	16	8	241	1
9	5270	16	6.4	292	1
10	5270	16	7	420	1
11	5270	17	9.5	382	1
12	5270	17	6.1	481	1
13	5270	18	6.7	227	1
14	5270	16	9	218	1
15	5270	17	7.5	282	1
16	5270	17	7.1	388	1
17	5270	18	9.9	203	0
18	5270	18	8.6	348	1
19	5270	17	9.8	447	1
20	5270	18	6.5	262	1
21	5270	17	9.8	359	1
22	5270	17	7.3	454	1
23	5270	18	7.4	260	1
24	5270	16	6.3	413	1
25	5270	16	9.3	381	1
26	5270	17	8.7	262	1
27	5270	16	9.7	279	1
28	5270	16	6.1	315	1
29	5270	16	6.4	212	1
30	5270	16	9.1	281	1
Detection Percentage: 93.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	14	15	263	1
2	5270	14	14.3	275	1
3	5270	12	11.8	335	1
4	5270	14	14	460	0
5	5270	16	19.7	236	1
6	5270	15	18.7	396	1
7	5270	12	14.4	363	1
8	5270	15	18.5	468	0
9	5270	12	18.9	313	1
10	5270	13	19.6	376	1
11	5270	14	17.5	278	1
12	5270	14	19.1	334	1
13	5270	13	19.4	465	1
14	5270	12	17.9	407	1
15	5270	15	17.6	449	1
16	5270	12	18.3	300	1
17	5270	13	15.6	224	1
18	5270	15	18.7	274	1
19	5270	13	18.2	307	1
20	5270	15	19.4	373	1
21	5270	14	11.5	234	1
22	5270	13	13.3	360	1
23	5270	13	14	380	1
24	5270	15	15.4	485	1
25	5270	14	11.3	214	1
26	5270	14	12.1	432	1
27	5270	12	19.7	392	1
28	5270	13	18.5	450	1
29	5270	13	14.8	259	1
30	5270	12	17.9	234	1
Detection Percentage: 93.3 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	61.6			0.784136	0
1	2	16	78.6	1001		1.262502	
2	1	8	85.9			2.211829	
3	1	19	91.1			2.764339	
4	2	8	56.9	1016		3.940544	
5	2	20	58.9	1210		4.30131	
6	2	19	87.7	1203		5.461372	
7	2	9	68.5	1513		6.33924	
8	3	12	61.9	1011	1526	7.153956	
9	3	13	71.1	1848	1109	7.80599	
10	2	9	97	1750		8.724348	
11	2	15	64.1	1381		10.20755	
12	2	9	75.3	1886		10.32509	
13	3	5	90.9	1471	1697	11.81275	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	71.6	1731		0.041308	1
1	3	18	75.4	1578	1283	2.920944	
2	3	19	86.9	1356	1422	4.157449	
3	2	7	60.2	1137		5.172739	
4	1	6	70.5			7.268085	
5	2	13	99.7	1402		8.807611	
6	3	12	52.1	1040	1643	9.336935	
7	3	14	54	1829	1739	11.36782	

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	20	52.7	1518		0.458744	1
1	2	18	83.9	1989		1.036315	
2	3	5	90.1	1901	1486	1.876287	
3	2	16	50.9	1969		2.369829	
4	2	12	62.1	1156		2.53858	
5	1	7	57.3			3.346373	
6	2	10	77.1	1720		4.002238	
7	2	6	62	1014		4.703665	
8	2	14	66.6	1841		5.381216	
9	3	7	86.4	1393	1850	6.146045	
10	3	18	50.3	1219	1917	6.930821	
11	2	6	56	1280		7.525783	
12	1	8	76.9			7.616076	
13	1	9	82.4			8.461899	
14	1	16	63.1			9.173473	
15	2	19	68.2	1670		9.657692	
16	1	20	89.6			10.49864	
17	2	15	51.3	1647		11.19444	
18	2	18	79.1	1046		11.611	

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	16	85.1	1592	1423	0.207266	0
1	3	10	58.6	1745	1434	2.954316	
2	3	10	74.8	1749	1756	3.973657	
3	3	15	82.4	1484	1185	5.120726	
4	2	10	73.8	1056		6.615804	
5	1	15	68.6			8.669282	
6	3	12	97.4	1062	1779	9.189084	
7	1	16	67			11.94056	

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	15	98.2	1771		0.185819	1
1	2	14	71.5	1364		1.205839	
2	2	19	78.6	1688		1.747335	
3	3	19	85.6	1604	1869	2.25386	
4	2	18	68.8	1056		3.052845	
5	3	14	67.4	1953	1377	3.566438	
6	2	14	78.9	1711		4.08628	
7	2	18	95	1852		4.471489	
8	3	16	69.9	1332	1608	5.596608	
9	3	18	61.6	1026	1571	5.856525	
10	3	7	72	1969	1291	6.803666	
11	2	6	81.3	1576		7.293561	
12	3	15	94.1	1478	1213	7.65433	
13	2	9	52	1484		8.298985	
14	2	16	93.7	1065		9.297505	
15	3	14	62.9	1888	1080	9.50885	
16	3	8	96.1	1978	1938	10.35055	
17	2	19	91.2	1391		10.96667	
18	2	19	95.9	1573		11.47664	

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	12	56.1			0.802138	1
1	2	7	87.8	1664		1.223485	
2	3	12	56.1	1891	1254	2.684619	
3	3	6	52.3	1862	1578	3.276569	
4	1	11	52.9			4.423018	
5	3	17	67.3	1215	1884	5.473352	
6	1	6	89.1			7.608998	
7	2	6	65.9	1529		8.702811	
8	3	6	73.4	1217	1568	9.341888	
9	1	17	63			10.30179	
10	1	11	54.1			11.70765	

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	60.9			0.87285	1
1	3	8	79.7	1751	1497	2.500968	
2	2	16	98.1	1286		3.469544	
3	1	5	94.1			4.873845	
4	2	12	97.1	1111		6.949658	
5	3	9	82.6	1015	1041	8.021925	
6	3	18	73.4	1471	1622	10.05907	
7	1	15	67.5			11.63166	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	89.6	1089		0.842813	1
1	2	11	63.5	1608		1.51254	
2	1	16	74.7			2.302778	
3	2	20	66.4	1969		2.897944	
4	3	17	94.4	1945	1317	4.592474	
5	3	19	69.6	1265	1859	4.981956	
6	2	13	65.4	1603		6.286983	
7	3	17	51.7	1244	1671	7.071507	
8	2	18	81.7	1121		7.927502	
9	1	17	94.4			9.099152	
10	2	16	90	1624		10.10135	
11	2	17	99	1664		10.43092	
12	1	9	75.3			11.30557	

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	8	90.7	1908	1176	0.74868	1
1	2	15	85.2	1351		1.070451	
2	2	9	84.1	1983		2.871954	
3	2	16	98.2	1858		3.935563	
4	3	18	87.2	1431	1806	4.640579	
5	2	16	95.6	1455		5.453837	
6	3	16	87.2	1010	1799	6.720733	
7	1	8	95.4			7.140457	
8	2	7	71.6	1839		8.279652	
9	2	5	70.7	1450		9.524044	
10	2	8	83.4	1218		10.95052	
11	2	18	53.2	1979		11.60595	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	72.9			0.328519	1
1	2	18	85	1983		1.493372	
2	1	7	71			1.767928	
3	3	7	99.5	1002	1459	2.448726	
4	2	19	72.8	1465		3.285912	
5	1	6	60.7			4.17672	
6	3	14	67.3	1065	1562	4.563065	
7	2	7	79.9	1533		5.79198	
8	1	17	96.3			6.703613	
9	1	16	51.7			7.367695	
10	3	16	76.9	1687	1077	7.681713	
11	2	16	66.9	1122		8.353994	
12	1	15	77.8			9.45451	
13	3	6	73.6	1227	1053	10.17306	
14	1	17	91			11.01457	
15	1	7	85.1			11.53276	

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	11	75	1760		0.275806	1
1	1	17	90.2			0.831043	
2	3	18	98.7	1552	1926	1.933461	
3	3	9	94.4	1247	1556	2.366624	
4	3	9	97	1438	1247	3.09022	
5	3	17	93.9	1401	1506	3.800893	
6	2	15	69.2	1543		4.302073	
7	3	14	91.7	1828	1974	5.321654	
8	3	7	78.6	1651	1258	5.725458	
9	3	11	60.4	1174	1581	6.868672	
10	2	12	54	1345		7.405114	
11	2	19	67.7	1596		7.983346	
12	3	14	52.6	1830	1248	9.035467	
13	1	7	83			9.555997	
14	2	15	89.5	1607		10.58149	
15	2	10	54.8	1806		11.1117	
16	1	13	88.7			11.38192	

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	7	95.4	1261		0.069707	1
1	3	10	81.7	1859	1980	2.143493	
2	2	19	68	1700		2.780487	
3	3	19	60.6	1206	1927	3.318695	
4	3	13	84.5	1144	1134	4.927767	
5	2	6	93.6	1069		6.300082	
6	2	15	97.3	1071		7.134846	
7	2	5	58.4	1818		8.199609	
8	2	10	80.5	1488		9.16142	
9	2	14	73.3	1160		9.953882	

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	11	97.8	1292		0.659213	1
1	2	15	78.2	1515		1.364653	
2	2	8	62	1393		3.226843	
3	2	19	78.8	1322		4.589282	
4	2	5	69.7	1306		5.121321	
5	3	18	93.3	1537	1636	6.956164	
6	3	14	88.6	1616	1108	8.275639	
7	1	8	84.3			8.645262	
8	2	10	99.9	1283		10.07125	
9	2	11	70.2	1773		11.95595	

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	79	1043		0.520717	1
1	1	13	94			1.163914	
2	2	16	58.8	1157		1.548105	
3	2	14	52.4	1301		2.115035	
4	2	9	70.9	1157		2.529421	
5	1	6	82.1			3.126235	
6	2	8	97.1	1042		3.686259	
7	1	17	50.3			4.333289	
8	3	11	51.2	1613	1889	5.077137	
9	3	15	77	1928	1431	5.919398	
10	3	14	77.1	1598	1499	6.185684	
11	3	6	85	1945	1590	6.940544	
12	2	18	99.4	1779		7.790885	
13	1	7	62.3			8.087625	
14	2	9	95	1510		8.977436	
15	2	5	74	1824		9.574107	
16	1	12	97.3			9.806091	
17	2	8	97.4	1640		10.468	
18	3	11	83.3	1455	1919	11.22281	
19	2	12	78.1	1548		11.56279	

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	13	55.5			0.367391	1
1	3	13	72.9	1179	1879	0.784363	
2	3	17	82.9	1091	1083	1.891348	
3	2	16	57.7	1829		2.352267	
4	3	17	78.5	1417	1310	3.238587	
5	2	15	60	1387		3.949733	
6	2	6	59.7	1886		5.029993	
7	2	18	91.6	1873		5.385797	
8	1	18	54.2			6.60655	
9	2	18	53.8	1123		7.333455	
10	3	15	72.8	1401	1673	8.105352	
11	3	14	57.7	1117	1817	8.632592	
12	3	11	94.7	1209	1681	9.591558	
13	1	16	83.6			9.989002	
14	1	20	91.1			10.59545	
15	3	9	94.5	1768	1074	11.60488	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	56.1			0.289943	1
1	2	17	77.2	1389		0.855282	
2	2	18	91.5	1071		1.374922	
3	1	10	50.5			2.532565	
4	2	11	50.5	1973		2.752941	
5	3	9	58.9	1946	1893	3.545381	
6	2	18	86	1481		4.160485	
7	3	12	52	1901	1992	4.988642	
8	2	12	94.7	1580		5.448349	
9	2	16	96.8	1729		6.495841	
10	2	8	75.1	1309		6.925243	
11	1	19	54.7			7.636365	
12	1	17	67.8			8.188666	
13	2	15	99.5	1961		9.270217	
14	3	13	65.4	1689	1276	9.479372	
15	2	16	77.6	1155		10.45695	
16	2	7	57.7	1409		11.03539	
17	2	11	82.4	1975		11.91737	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	55.2	1718	1003	0.009506	1
1	2	11	88.1	1388		1.374471	
2	2	9	90.5	1940		2.936233	
3	2	13	93.3	1830		3.633524	
4	3	7	78.2	1689	1248	5.241622	
5	2	6	64.1	1667		6.345659	
6	3	12	58.6	1930	1968	7.246804	
7	3	11	70.6	1459	1643	8.771633	
8	2	14	96.5	1998		9.874018	
9	1	5	81.7			10.83982	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	65.2			0.70681	1
1	3	8	76.4	1919	1199	1.359944	
2	2	11	85.5	1658		2.730921	
3	2	20	78.7	1608		4.255367	
4	1	14	93.4			4.868408	
5	3	13	58.1	1252	1412	7.172969	
6	1	13	67.2			8.280166	
7	3	9	67	1500	1273	9.583444	
8	3	10	71.5	1920	1581	10.0552	
9	3	14	73.8	1064	1143	11.20572	

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	18	69.7	1399	1463	0.202745	1
1	2	17	62.2	1497		0.679888	
2	3	15	96.3	1513	1519	1.614349	
3	2	8	65.5	1160		2.270149	
4	2	13	61.9	1923		2.957212	
5	3	11	65	1005	1387	3.562437	
6	3	20	61.9	1648	1670	4.523145	
7	1	10	73.4			4.740357	
8	3	5	76.6	1842	1278	5.444994	
9	1	6	67.2			6.237535	
10	1	16	60			7.215611	
11	1	14	67.4			7.380445	
12	3	16	96.9	1614	1731	8.262988	
13	2	8	88.4	1624		8.983687	
14	2	10	91.6	1891		9.742387	
15	2	8	97.8	1475		10.28597	
16	1	18	59			11.26807	
17	1	19	97.8			11.8571	

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	17	84	1513		0.178354	1
1	2	8	57.8	1154		1.018116	
2	1	14	88.8			1.851891	
3	2	15	76.9	1924		2.501069	
4	2	12	87.8	1563		3.436748	
5	3	13	80.5	1868	1049	4.628145	
6	3	13	100	1972	1211	5.443167	
7	3	14	73.6	1371	1729	5.62558	
8	3	7	92.6	1155	1332	7.050272	
9	2	11	66.2	1412		7.542861	
10	3	18	60.9	1695	1096	8.040038	
11	2	11	50.3	1875		8.920768	
12	2	12	68.3	1071		9.713461	
13	3	16	80.3	1311	1285	10.59909	
14	3	18	80.3	1888	1204	11.45621	

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	17	75.6	1296	1550	1.009108	1
1	2	16	98.3	1567		1.361359	
2	1	12	85.9			2.89776	
3	2	17	96	1440		3.987219	
4	2	10	80.8	1492		4.37049	
5	1	13	87.7			6.478004	
6	1	13	78			6.727832	
7	2	12	95.3	1442		7.754871	
8	1	9	80.3			9.637981	
9	2	20	88.3	1786		10.40118	
10	3	15	86.3	1859	1779	11.03508	

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	79.3	1280		0.085391	1
1	3	14	67.3	1368	1512	0.759777	
2	3	18	76.4	1560	1055	2.183482	
3	2	9	95	1665		2.459595	
4	3	14	74.5	1589	1114	3.217546	
5	2	16	92	1634		3.977609	
6	2	7	85	1470		5.230212	
7	3	6	58.7	1764	1995	5.307276	
8	1	11	54.3			6.621113	
9	1	19	80.2			6.950316	
10	2	16	93.4	1948		7.699414	
11	1	8	76.3			8.461505	
12	1	11	67.1			9.009499	
13	2	20	85.6	1709		10.14792	
14	2	11	82.6	1929		10.70815	
15	1	14	95			11.57385	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	98.5			0.015674	1
1	2	18	58.3	1636		1.200145	
2	2	15	60.4	1521		1.622429	
3	2	8	86.8	1600		2.332905	
4	3	15	75.1	1119	1893	3.104413	
5	2	6	78.6	1306		3.87688	
6	3	15	58.1	1484	1172	4.266897	
7	2	14	54.9	1005		5.504816	
8	2	7	86	1592		5.659738	
9	2	14	85.8	1342		6.47289	
10	1	12	80.3			7.652812	
11	2	7	97.8	1975		7.829819	
12	3	7	73.7	1359	1122	8.863245	
13	3	11	55.4	1161	1431	9.283893	
14	2	7	80	1101		10.02194	
15	2	11	92.2	1859		11.14951	
16	1	20	87			11.97464	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	79.6			0.346189	1
1	3	8	67.9	1686	1518	0.9949	
2	2	5	68.5	1305		1.512974	
3	3	5	79.7	1208	1383	2.388367	
4	2	8	80	1429		2.78726	
5	2	20	95.7	1642		3.168265	
6	1	10	96.9			3.944683	
7	3	19	73.5	1485	1071	4.461505	
8	1	10	92.4			5.267293	
9	1	19	60.5			5.722106	
10	3	12	89.8	1960	1681	6.792756	
11	3	13	63.4	1025	1534	7.501549	
12	1	6	77.4			7.710488	
13	2	18	69.7	1555		8.675323	
14	3	15	55.1	1091	1851	9.131615	
15	3	9	82.6	1073	1977	9.862304	
16	2	6	87.6	1951		10.44557	
17	2	13	94.9	1934		11.23995	
18	3	9	82.4	1388	1682	11.70202	

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	18	85			0.898015	0
1	2	19	70	1104		1.409057	
2	1	10	60.8			2.385683	
3	2	11	77.6	1661		3.084516	
4	2	9	72.5	1796		4.439654	
5	2	14	52	1404		4.629827	
6	2	16	86.1	1798		6.226815	
7	2	19	95.7	1618		7.171484	
8	2	10	83.2	1710		7.494867	
9	1	14	96.6			8.727245	
10	1	14	73.7			10.06573	
11	1	14	80.5			10.68189	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	66.2	1051		0.673871	1
1	2	17	78.3	1582		1.090993	
2	1	14	81.5			1.766042	
3	1	15	90.7			2.648407	
4	3	11	57	1421	1441	3.306774	
5	2	18	50.6	1842		3.856488	
6	2	12	50.7	1327		4.722478	
7	1	19	59.5			5.969022	
8	3	16	98.6	1585	1918	6.354383	
9	2	8	91.5	1601		7.474244	
10	2	19	96.5	1808		7.523826	
11	2	13	59.9	1478		8.427035	
12	2	11	82.4	1718		9.567013	
13	3	15	68.5	1301	1873	10.18605	
14	2	6	97.1	1834		11.01914	
15	3	8	81.9	1007	1691	11.75759	

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	71.2	1422		0.503873	1
1	3	20	62.7	1094	1085	1.188535	
2	1	15	68			1.968723	
3	3	16	94.6	1721	1069	2.717501	
4	2	18	58.7	1985		4.170952	
5	2	14	95.2	1148		5.020465	
6	3	16	72.4	1527	1275	5.294312	
7	3	20	71.2	1411	1567	6.019842	
8	1	18	54			7.058347	
9	2	15	55.6	1576		8.514877	
10	2	6	73.6	1052		8.668517	
11	2	13	99.8	1230		9.586956	
12	3	7	82.8	1247	1827	10.39436	
13	1	15	76.6			11.42521	

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	10	99.9			0.698152	1
1	3	17	60.9	1387	1926	1.078728	
2	2	17	70.4	1449		2.301389	
3	2	10	59.7	1490		2.700884	
4	1	15	66.8			4.179456	
5	2	8	94.6	1801		4.570821	
6	2	5	55.6	1570		5.711938	
7	2	13	64.3	1073		6.203549	
8	2	9	54	1805		7.033704	
9	1	7	82.6			8.023262	
10	2	14	60.1	1053		8.784571	
11	2	16	76.9	1754		9.638654	
12	2	7	69	1032		10.50227	
13	2	17	95.1	1460		11.89133	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	95.6			0.331211	1
1	2	19	86	1360		1.345825	
2	3	16	84.5	1121	1989	2.68284	
3	1	16	71.2			3.235456	
4	2	20	72	1690		3.75545	
5	1	18	90.4			5.446351	
6	2	10	71.6	1434		6.139934	
7	1	15	77.5			6.764917	
8	2	10	64.8	1231		8.066924	
9	2	17	75.2	1824		8.685804	
10	3	16	77.6	1966	1788	10.05978	
11	2	7	58	1028		10.97583	
12	2	16	57.5	1042		11.92619	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	93	1952		0.831318	1
1	3	18	51.8	1983	1074	1.784024	
2	3	5	75.4	1837	1577	2.211157	
3	2	19	75.6	1552		3.204174	
4	2	12	57.4	1248		4.307	
5	2	17	61.2	1094		5.93957	
6	2	11	64.9	1399		6.747862	
7	3	10	81.6	1177	1063	7.749862	
8	1	7	63.7			8.516399	
9	1	12	68.2			9.601982	
10	1	12	91.4			10.44999	
11	2	9	97.5	1278		11.91439	

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	5714.0, 5338.0, 5451.0, 5681.0, 5407.0, 5718.0, 5558.0, 5511.0, 5662.0, 5538.0, 5541.0, 5525.0, 5344.0, 5473.0, 5441.0, 5486.0, 5318.0, 5719.0, 5482.0, 5483.0, 5396.0, 5380.0, 5340.0, 5650.0, 5563.0, 5281.0, 5679.0, 5445.0, 5419.0, 5510.0, 5283.0, 5372.0, 5685.0, 5703.0, 5435.0, 5693.0, 5295.0, 5320.0, 5521.0, 5356.0, 5554.0, 5313.0, 5422.0, 5625.0, 5573.0, 5266.0, 5448.0, 5506.0, 5724.0, 5335.0, 5518.0, 5557.0, 5665.0, 5474.0, 5437.0, 5305.0, 5570.0, 5371.0, 5571.0, 5499.0, 5481.0, 5466.0, 5668.0, 5594.0, 5536.0, 5623.0, 5490.0, 5489.0, 5605.0, 5574.0, 5646.0, 5468.0, 5621.0, 5699.0, 5367.0, 5516.0, 5720.0, 5523.0, 5608.0, 5586.0, 5715.0, 5680.0, 5410.0, 5378.0, 5416.0, 5412.0, 5301.0, 5543.0, 5341.0, 5694.0, 5696.0, 5485.0, 5508.0, 5599.0, 5698.0, 5271.0, 5712.0, 5630.0, 5444.0, 5465.0 (number of hits: 4)
2	5270	9	1	333	1	5704.0, 5703.0, 5536.0, 5649.0, 5670.0, 5509.0, 5447.0, 5382.0, 5524.0, 5352.0, 5429.0, 5698.0, 5412.0, 5560.0, 5562.0, 5618.0, 5539.0, 5624.0, 5317.0, 5650.0, 5605.0, 5637.0, 5476.0, 5353.0, 5415.0, 5664.0, 5310.0, 5495.0, 5266.0, 5440.0, 5302.0, 5697.0, 5485.0, 5251.0, 5506.0, 5276.0, 5584.0, 5507.0, 5268.0, 5569.0, 5401.0, 5283.0, 5673.0, 5277.0, 5398.0, 5389.0, 5344.0, 5472.0, 5402.0, 5487.0, 5608.0, 5626.0, 5265.0, 5660.0, 5287.0, 5345.0, 5593.0, 5701.0, 5441.0, 5383.0, 5551.0, 5259.0, 5438.0, 5316.0, 5695.0, 5384.0, 5696.0, 5256.0, 5427.0, 5663.0, 5647.0, 5675.0, 5563.0, 5658.0, 5640.0, 5672.0, 5289.0, 5414.0, 5654.0, 5691.0, 5465.0, 5448.0, 5682.0, 5496.0, 5292.0, 5634.0, 5668.0, 5505.0, 5511.0, 5635.0, 5545.0, 5636.0, 5538.0, 5585.0, 5581.0, 5705.0, 5629.0, 5596.0, 5304.0, 5347.0 (number of hits: 6)
3	5270	9	1	333	1	5489.0, 5666.0, 5311.0, 5399.0, 5617.0, 5353.0, 5266.0, 5704.0, 5318.0, 5420.0, 5507.0, 5605.0, 5419.0, 5716.0, 5540.0, 5331.0, 5550.0, 5349.0, 5287.0, 5696.0, 5443.0, 5496.0, 5498.0, 5518.0, 5250.0, 5431.0, 5713.0, 5514.0, 5370.0, 5678.0, 5515.0, 5649.0, 5346.0, 5568.0, 5624.0, 5400.0, 5283.0, 5470.0, 5591.0, 5577.0, 5723.0, 5630.0, 5629.0, 5421.0, 5654.0, 5510.0, 5508.0, 5302.0, 5535.0, 5615.0, 5656.0, 5598.0, 5426.0, 5296.0, 5288.0,

						5394.0, 5657.0, 5531.0, 5278.0, 5365.0, 5327.0, 5306.0, 5644.0, 5411.0, 5376.0, 5690.0, 5417.0, 5262.0, 5313.0, 5618.0, 5322.0, 5474.0, 5680.0, 5700.0, 5269.0, 5357.0, 5694.0, 5320.0, 5255.0, 5422.0, 5282.0, 5369.0, 5379.0, 5414.0, 5681.0, 5373.0, 5721.0, 5458.0, 5628.0, 5388.0, 5722.0, 5413.0, 5668.0, 5705.0, 5600.0, 5424.0, 5613.0, 5433.0, 5652.0, 5440.0 (number of hits: 7)
4	5270	9	1	333	1	5651.0, 5318.0, 5263.0, 5312.0, 5620.0, 5454.0, 5358.0, 5523.0, 5349.0, 5644.0, 5650.0, 5613.0, 5602.0, 5344.0, 5560.0, 5663.0, 5695.0, 5535.0, 5496.0, 5255.0, 5645.0, 5629.0, 5610.0, 5573.0, 5291.0, 5310.0, 5632.0, 5356.0, 5410.0, 5486.0, 5397.0, 5462.0, 5467.0, 5424.0, 5309.0, 5709.0, 5669.0, 5516.0, 5417.0, 5554.0, 5438.0, 5592.0, 5659.0, 5314.0, 5332.0, 5631.0, 5444.0, 5676.0, 5672.0, 5493.0, 5256.0, 5323.0, 5409.0, 5521.0, 5429.0, 5368.0, 5276.0, 5379.0, 5284.0, 5296.0, 5362.0, 5517.0, 5372.0, 5420.0, 5388.0, 5366.0, 5328.0, 5290.0, 5359.0, 5404.0, 5704.0, 5418.0, 5266.0, 5326.0, 5711.0, 5419.0, 5600.0, 5330.0, 5571.0, 5719.0, 5626.0, 5322.0, 5638.0, 5702.0, 5540.0, 5301.0, 5563.0, 5525.0, 5604.0, 5468.0, 5717.0, 5459.0, 5536.0, 5376.0, 5681.0, 5458.0, 5588.0, 5548.0, 5608.0, 5667.0 (number of hits: 8)
5	5270	9	1	333	1	5390.0, 5490.0, 5363.0, 5682.0, 5601.0, 5264.0, 5415.0, 5667.0, 5355.0, 5705.0, 5680.0, 5692.0, 5305.0, 5292.0, 5670.0, 5428.0, 5535.0, 5408.0, 5519.0, 5604.0, 5676.0, 5389.0, 5362.0, 5648.0, 5711.0, 5424.0, 5717.0, 5613.0, 5496.0, 5723.0, 5721.0, 5340.0, 5579.0, 5434.0, 5350.0, 5357.0, 5528.0, 5265.0, 5359.0, 5277.0, 5397.0, 5715.0, 5489.0, 5260.0, 5556.0, 5338.0, 5607.0, 5686.0, 5413.0, 5678.0, 5611.0, 5493.0, 5365.0, 5668.0, 5582.0, 5478.0, 5386.0, 5335.0, 5690.0, 5557.0, 5684.0, 5551.0, 5724.0, 5486.0, 5573.0, 5629.0, 5542.0, 5696.0, 5509.0, 5259.0, 5505.0, 5647.0, 5543.0, 5308.0, 5621.0, 5295.0, 5327.0, 5565.0, 5706.0, 5262.0, 5483.0, 5278.0, 5346.0, 5620.0, 5461.0, 5420.0, 5400.0, 5378.0, 5334.0, 5273.0, 5654.0, 5703.0, 5610.0, 5713.0, 5300.0, 5267.0, 5375.0, 5453.0, 5596.0, 5636.0 (number of hits: 5)
6	5270	9	1	333	1	5382.0, 5333.0, 5641.0, 5464.0, 5614.0, 5280.0, 5367.0, 5438.0, 5296.0, 5416.0, 5269.0, 5417.0, 5441.0, 5490.0, 5368.0, 5639.0, 5588.0, 5597.0, 5707.0, 5553.0, 5348.0, 5569.0, 5356.0, 5435.0, 5300.0, 5610.0, 5708.0, 5618.0, 5586.0, 5516.0, 5371.0, 5627.0, 5491.0, 5652.0, 5447.0,

						5272.0, 5541.0, 5679.0, 5390.0, 5257.0, 5273.0, 5695.0, 5599.0, 5499.0, 5283.0, 5638.0, 5694.0, 5621.0, 5379.0, 5430.0, 5431.0, 5325.0, 5285.0, 5412.0, 5530.0, 5542.0, 5506.0, 5399.0, 5352.0, 5384.0, 5366.0, 5484.0, 5680.0, 5349.0, 5407.0, 5378.0, 5504.0, 5440.0, 5653.0, 5250.0, 5410.0, 5568.0, 5566.0, 5251.0, 5686.0, 5476.0, 5263.0, 5536.0, 5458.0, 5374.0, 5581.0, 5305.0, 5702.0, 5668.0, 5423.0, 5699.0, 5381.0, 5619.0, 5591.0, 5303.0, 5455.0, 5535.0, 5290.0, 5509.0, 5502.0, 5637.0, 5700.0, 5693.0, 5620.0, 5266.0 (number of hits: 6)
7	5270	9	1	333	1	5722.0, 5349.0, 5302.0, 5331.0, 5565.0, 5709.0, 5334.0, 5582.0, 5480.0, 5633.0, 5614.0, 5517.0, 5684.0, 5523.0, 5425.0, 5360.0, 5453.0, 5697.0, 5570.0, 5674.0, 5348.0, 5459.0, 5435.0, 5365.0, 5604.0, 5289.0, 5579.0, 5495.0, 5307.0, 5355.0, 5531.0, 5720.0, 5353.0, 5493.0, 5397.0, 5292.0, 5294.0, 5278.0, 5653.0, 5336.0, 5350.0, 5390.0, 5413.0, 5584.0, 5320.0, 5351.0, 5543.0, 5410.0, 5606.0, 5662.0, 5557.0, 5443.0, 5545.0, 5678.0, 5379.0, 5420.0, 5714.0, 5381.0, 5441.0, 5276.0, 5258.0, 5661.0, 5631.0, 5468.0, 5316.0, 5499.0, 5405.0, 5639.0, 5361.0, 5269.0, 5496.0, 5448.0, 5422.0, 5479.0, 5494.0, 5617.0, 5609.0, 5632.0, 5696.0, 5647.0, 5656.0, 5670.0, 5372.0, 5382.0, 5314.0, 5436.0, 5544.0, 5652.0, 5332.0, 5555.0, 5270.0, 5277.0, 5263.0, 5478.0, 5335.0, 5687.0, 5710.0, 5261.0, 5385.0, 5374.0 (number of hits: 6)
8	5270	9	1	333	1	5308.0, 5586.0, 5509.0, 5463.0, 5574.0, 5723.0, 5402.0, 5352.0, 5597.0, 5620.0, 5582.0, 5381.0, 5401.0, 5660.0, 5265.0, 5267.0, 5410.0, 5466.0, 5639.0, 5659.0, 5553.0, 5468.0, 5720.0, 5645.0, 5514.0, 5673.0, 5420.0, 5609.0, 5555.0, 5353.0, 5434.0, 5370.0, 5536.0, 5474.0, 5701.0, 5605.0, 5311.0, 5377.0, 5518.0, 5675.0, 5601.0, 5425.0, 5594.0, 5494.0, 5479.0, 5411.0, 5705.0, 5530.0, 5547.0, 5630.0, 5612.0, 5636.0, 5380.0, 5358.0, 5405.0, 5367.0, 5677.0, 5362.0, 5404.0, 5545.0, 5409.0, 5475.0, 5491.0, 5280.0, 5563.0, 5632.0, 5372.0, 5655.0, 5349.0, 5600.0, 5418.0, 5710.0, 5602.0, 5693.0, 5477.0, 5471.0, 5339.0, 5276.0, 5281.0, 5455.0, 5357.0, 5523.0, 5552.0, 5251.0, 5467.0, 5289.0, 5524.0, 5277.0, 5721.0, 5588.0, 5371.0, 5376.0, 5298.0, 5365.0, 5445.0, 5273.0, 5439.0, 5388.0, 5256.0, 5520.0 (number of hits: 4)
9	5270	9	1	333	1	5468.0, 5393.0, 5512.0, 5372.0, 5469.0, 5554.0, 5274.0, 5303.0, 5536.0, 5624.0, 5335.0, 5394.0, 5686.0, 5613.0, 5570.0,

						5542.0, 5279.0, 5635.0, 5262.0, 5546.0, 5252.0, 5299.0, 5703.0, 5261.0, 5304.0, 5565.0, 5446.0, 5588.0, 5417.0, 5529.0, 5574.0, 5444.0, 5592.0, 5411.0, 5353.0, 5399.0, 5535.0, 5526.0, 5695.0, 5416.0, 5544.0, 5263.0, 5679.0, 5458.0, 5675.0, 5306.0, 5670.0, 5667.0, 5569.0, 5450.0, 5713.0, 5329.0, 5284.0, 5250.0, 5287.0, 5288.0, 5585.0, 5682.0, 5320.0, 5607.0, 5548.0, 5381.0, 5633.0, 5639.0, 5268.0, 5410.0, 5704.0, 5339.0, 5330.0, 5634.0, 5384.0, 5710.0, 5321.0, 5382.0, 5271.0, 5275.0, 5631.0, 5354.0, 5632.0, 5625.0, 5327.0, 5556.0, 5581.0, 5472.0, 5476.0, 5668.0, 5387.0, 5677.0, 5638.0, 5346.0, 5511.0, 5423.0, 5559.0, 5257.0, 5428.0, 5475.0, 5487.0, 5522.0, 5692.0, 5540.0 (number of hits: 6)
10	5270	9	1	333	1	5523.0, 5559.0, 5373.0, 5307.0, 5696.0, 5510.0, 5357.0, 5526.0, 5254.0, 5524.0, 5560.0, 5695.0, 5375.0, 5312.0, 5563.0, 5645.0, 5478.0, 5333.0, 5264.0, 5598.0, 5313.0, 5587.0, 5475.0, 5658.0, 5705.0, 5508.0, 5507.0, 5600.0, 5370.0, 5592.0, 5378.0, 5529.0, 5642.0, 5319.0, 5594.0, 5584.0, 5602.0, 5324.0, 5352.0, 5290.0, 5513.0, 5417.0, 5550.0, 5715.0, 5259.0, 5716.0, 5648.0, 5536.0, 5626.0, 5690.0, 5322.0, 5710.0, 5408.0, 5479.0, 5595.0, 5396.0, 5588.0, 5464.0, 5627.0, 5470.0, 5540.0, 5678.0, 5539.0, 5294.0, 5688.0, 5309.0, 5567.0, 5422.0, 5282.0, 5534.0, 5261.0, 5318.0, 5720.0, 5492.0, 5449.0, 5573.0, 5310.0, 5430.0, 5580.0, 5605.0, 5603.0, 5461.0, 5547.0, 5462.0, 5395.0, 5650.0, 5441.0, 5680.0, 5296.0, 5447.0, 5643.0, 5436.0, 5453.0, 5660.0, 5280.0, 5671.0, 5525.0, 5299.0, 5463.0, 5327.0 (number of hits: 9)
11	5270	9	1	333	1	5553.0, 5619.0, 5601.0, 5480.0, 5444.0, 5269.0, 5485.0, 5265.0, 5412.0, 5718.0, 5586.0, 5658.0, 5295.0, 5360.0, 5652.0, 5618.0, 5582.0, 5588.0, 5268.0, 5502.0, 5678.0, 5325.0, 5632.0, 5534.0, 5622.0, 5598.0, 5570.0, 5567.0, 5284.0, 5370.0, 5302.0, 5662.0, 5395.0, 5572.0, 5351.0, 5419.0, 5414.0, 5674.0, 5372.0, 5336.0, 5706.0, 5519.0, 5630.0, 5340.0, 5446.0, 5561.0, 5660.0, 5297.0, 5385.0, 5337.0, 5695.0, 5626.0, 5396.0, 5362.0, 5331.0, 5425.0, 5684.0, 5646.0, 5468.0, 5492.0, 5621.0, 5560.0, 5321.0, 5286.0, 5707.0, 5503.0, 5403.0, 5541.0, 5549.0, 5409.0, 5699.0, 5614.0, 5420.0, 5671.0, 5591.0, 5450.0, 5272.0, 5293.0, 5459.0, 5300.0, 5659.0, 5603.0, 5373.0, 5536.0, 5267.0, 5682.0, 5642.0, 5705.0, 5316.0, 5612.0, 5558.0, 5449.0, 5648.0, 5655.0, 5663.0, 5379.0, 5637.0, 5310.0, 5389.0, 5584.0

						(number of hits: 7)
12	5270	9	1	333	1	5565.0, 5630.0, 5422.0, 5476.0, 5615.0, 5421.0, 5292.0, 5405.0, 5493.0, 5517.0, 5555.0, 5506.0, 5530.0, 5585.0, 5522.0, 5576.0, 5303.0, 5573.0, 5654.0, 5713.0, 5499.0, 5561.0, 5716.0, 5646.0, 5378.0, 5401.0, 5441.0, 5582.0, 5721.0, 5427.0, 5709.0, 5268.0, 5301.0, 5264.0, 5598.0, 5274.0, 5255.0, 5280.0, 5397.0, 5648.0, 5333.0, 5562.0, 5723.0, 5539.0, 5667.0, 5471.0, 5284.0, 5275.0, 5273.0, 5620.0, 5689.0, 5340.0, 5653.0, 5261.0, 5343.0, 5647.0, 5628.0, 5519.0, 5682.0, 5691.0, 5305.0, 5526.0, 5680.0, 5591.0, 5379.0, 5696.0, 5381.0, 5259.0, 5543.0, 5523.0, 5584.0, 5315.0, 5448.0, 5435.0, 5285.0, 5580.0, 5634.0, 5558.0, 5670.0, 5599.0, 5566.0, 5661.0, 5445.0, 5715.0, 5364.0, 5520.0, 5550.0, 5291.0, 5535.0, 5384.0, 5326.0, 5430.0, 5687.0, 5529.0, 5616.0, 5472.0, 5419.0, 5560.0, 5666.0, 5363.0
						(number of hits: 6)
13	5270	9	1	333	1	5692.0, 5540.0, 5367.0, 5553.0, 5679.0, 5717.0, 5282.0, 5601.0, 5509.0, 5696.0, 5560.0, 5531.0, 5674.0, 5501.0, 5397.0, 5635.0, 5652.0, 5608.0, 5627.0, 5385.0, 5595.0, 5529.0, 5654.0, 5539.0, 5396.0, 5263.0, 5600.0, 5698.0, 5611.0, 5641.0, 5684.0, 5314.0, 5334.0, 5547.0, 5290.0, 5530.0, 5401.0, 5390.0, 5398.0, 5329.0, 5337.0, 5388.0, 5285.0, 5269.0, 5667.0, 5457.0, 5448.0, 5440.0, 5617.0, 5663.0, 5640.0, 5719.0, 5564.0, 5494.0, 5548.0, 5693.0, 5636.0, 5393.0, 5570.0, 5536.0, 5268.0, 5433.0, 5284.0, 5592.0, 5466.0, 5584.0, 5477.0, 5669.0, 5511.0, 5412.0, 5474.0, 5411.0, 5432.0, 5662.0, 5300.0, 5633.0, 5583.0, 5413.0, 5293.0, 5535.0, 5512.0, 5468.0, 5288.0, 5434.0, 5639.0, 5344.0, 5351.0, 5471.0, 5372.0, 5643.0, 5710.0, 5609.0, 5456.0, 5326.0, 5307.0, 5379.0, 5585.0, 5683.0, 5259.0, 5327.0
						(number of hits: 7)
14	5270	9	1	333	1	5540.0, 5349.0, 5446.0, 5622.0, 5664.0, 5305.0, 5648.0, 5380.0, 5542.0, 5482.0, 5555.0, 5324.0, 5547.0, 5275.0, 5585.0, 5325.0, 5512.0, 5498.0, 5307.0, 5679.0, 5646.0, 5276.0, 5374.0, 5637.0, 5288.0, 5612.0, 5497.0, 5318.0, 5516.0, 5425.0, 5437.0, 5718.0, 5553.0, 5683.0, 5606.0, 5329.0, 5354.0, 5706.0, 5434.0, 5567.0, 5291.0, 5401.0, 5326.0, 5485.0, 5711.0, 5368.0, 5570.0, 5316.0, 5272.0, 5702.0, 5412.0, 5616.0, 5584.0, 5292.0, 5613.0, 5406.0, 5526.0, 5531.0, 5262.0, 5669.0, 5601.0, 5629.0, 5527.0, 5364.0, 5684.0, 5289.0, 5250.0, 5666.0, 5413.0, 5263.0, 5521.0, 5560.0, 5558.0, 5345.0, 5444.0, 5376.0, 5541.0, 5473.0, 5420.0, 5675.0

						5715.0, 5721.0, 5522.0, 5480.0, 5504.0, 5302.0, 5599.0, 5268.0, 5490.0, 5652.0, 5519.0, 5409.0, 5348.0, 5636.0, 5670.0, 5654.0, 5357.0, 5471.0, 5552.0, 5265.0 (number of hits: 7)
15	5270	9	1	333	1	5717.0, 5401.0, 5694.0, 5359.0, 5684.0, 5607.0, 5586.0, 5409.0, 5302.0, 5412.0, 5321.0, 5300.0, 5491.0, 5722.0, 5390.0, 5287.0, 5636.0, 5660.0, 5419.0, 5318.0, 5618.0, 5394.0, 5568.0, 5448.0, 5457.0, 5537.0, 5283.0, 5518.0, 5387.0, 5585.0, 5381.0, 5645.0, 5317.0, 5530.0, 5375.0, 5558.0, 5604.0, 5622.0, 5695.0, 5675.0, 5593.0, 5671.0, 5603.0, 5291.0, 5532.0, 5286.0, 5254.0, 5714.0, 5559.0, 5268.0, 5393.0, 5280.0, 5415.0, 5569.0, 5720.0, 5264.0, 5514.0, 5386.0, 5548.0, 5325.0, 5712.0, 5501.0, 5596.0, 5677.0, 5392.0, 5441.0, 5503.0, 5434.0, 5464.0, 5686.0, 5310.0, 5706.0, 5489.0, 5547.0, 5657.0, 5279.0, 5362.0, 5379.0, 5418.0, 5534.0, 5656.0, 5356.0, 5380.0, 5674.0, 5502.0, 5620.0, 5654.0, 5589.0, 5672.0, 5516.0, 5496.0, 5693.0, 5262.0, 5388.0, 5348.0, 5454.0, 5584.0, 5424.0, 5328.0, 5256.0 (number of hits: 6)
16	5270	9	1	333	1	5363.0, 5443.0, 5691.0, 5462.0, 5527.0, 5547.0, 5433.0, 5334.0, 5352.0, 5404.0, 5542.0, 5627.0, 5440.0, 5442.0, 5268.0, 5396.0, 5598.0, 5449.0, 5713.0, 5310.0, 5599.0, 5371.0, 5675.0, 5348.0, 5325.0, 5508.0, 5411.0, 5567.0, 5710.0, 5328.0, 5297.0, 5553.0, 5339.0, 5692.0, 5257.0, 5292.0, 5708.0, 5514.0, 5379.0, 5632.0, 5330.0, 5689.0, 5499.0, 5549.0, 5664.0, 5289.0, 5684.0, 5648.0, 5557.0, 5628.0, 5631.0, 5437.0, 5319.0, 5568.0, 5253.0, 5719.0, 5387.0, 5468.0, 5265.0, 5345.0, 5460.0, 5659.0, 5633.0, 5438.0, 5432.0, 5478.0, 5381.0, 5587.0, 5655.0, 5609.0, 5488.0, 5494.0, 5654.0, 5255.0, 5596.0, 5665.0, 5679.0, 5347.0, 5623.0, 5384.0, 5585.0, 5307.0, 5251.0, 5661.0, 5513.0, 5526.0, 5492.0, 5544.0, 5501.0, 5358.0, 5383.0, 5504.0, 5435.0, 5610.0, 5402.0, 5534.0, 5536.0, 5711.0, 5666.0, 5593.0 (number of hits: 5)
17	5270	9	1	333	1	5293.0, 5265.0, 5308.0, 5346.0, 5695.0, 5428.0, 5399.0, 5580.0, 5602.0, 5366.0, 5598.0, 5336.0, 5531.0, 5267.0, 5630.0, 5324.0, 5706.0, 5392.0, 5629.0, 5482.0, 5674.0, 5526.0, 5340.0, 5296.0, 5688.0, 5610.0, 5487.0, 5460.0, 5564.0, 5639.0, 5320.0, 5719.0, 5625.0, 5521.0, 5712.0, 5391.0, 5665.0, 5268.0, 5567.0, 5303.0, 5611.0, 5561.0, 5585.0, 5390.0, 5696.0, 5599.0, 5506.0, 5556.0, 5449.0, 5378.0, 5680.0, 5649.0, 5283.0, 5311.0, 5704.0, 5353.0, 5513.0, 5548.0, 5476.0, 5618.0,

						5285.0, 5441.0, 5497.0, 5722.0, 5315.0, 5274.0, 5363.0, 5422.0, 5306.0, 5416.0, 5555.0, 5470.0, 5592.0, 5502.0, 5690.0, 5572.0, 5401.0, 5622.0, 5258.0, 5711.0, 5713.0, 5402.0, 5310.0, 5467.0, 5642.0, 5660.0, 5299.0, 5294.0, 5594.0, 5608.0, 5724.0, 5318.0, 5636.0, 5571.0, 5447.0, 5439.0, 5426.0, 5615.0, 5657.0, 5499.0 (number of hits: 10)
18	5270	9	1	333	1	5325.0, 5652.0, 5473.0, 5723.0, 5489.0, 5458.0, 5349.0, 5684.0, 5299.0, 5430.0, 5400.0, 5516.0, 5389.0, 5633.0, 5317.0, 5336.0, 5689.0, 5415.0, 5667.0, 5334.0, 5290.0, 5363.0, 5492.0, 5598.0, 5432.0, 5488.0, 5520.0, 5377.0, 5533.0, 5714.0, 5379.0, 5286.0, 5643.0, 5479.0, 5592.0, 5578.0, 5351.0, 5607.0, 5358.0, 5385.0, 5539.0, 5502.0, 5540.0, 5591.0, 5666.0, 5703.0, 5673.0, 5569.0, 5451.0, 5444.0, 5425.0, 5649.0, 5283.0, 5507.0, 5606.0, 5563.0, 5705.0, 5556.0, 5291.0, 5617.0, 5429.0, 5260.0, 5434.0, 5313.0, 5495.0, 5470.0, 5466.0, 5401.0, 5587.0, 5408.0, 5397.0, 5614.0, 5535.0, 5348.0, 5597.0, 5562.0, 5266.0, 5323.0, 5459.0, 5708.0, 5622.0, 5594.0, 5681.0, 5590.0, 5255.0, 5446.0, 5440.0, 5700.0, 5442.0, 5294.0, 5410.0, 5702.0, 5642.0, 5493.0, 5636.0, 5537.0, 5621.0, 5558.0, 5472.0, 5565.0 (number of hits: 6)
19	5270	9	1	333	1	5353.0, 5617.0, 5695.0, 5402.0, 5689.0, 5635.0, 5618.0, 5386.0, 5588.0, 5350.0, 5403.0, 5699.0, 5319.0, 5661.0, 5299.0, 5422.0, 5693.0, 5325.0, 5450.0, 5459.0, 5265.0, 5611.0, 5710.0, 5367.0, 5660.0, 5546.0, 5550.0, 5645.0, 5326.0, 5436.0, 5437.0, 5298.0, 5723.0, 5631.0, 5293.0, 5629.0, 5292.0, 5694.0, 5288.0, 5639.0, 5291.0, 5321.0, 5388.0, 5502.0, 5526.0, 5266.0, 5475.0, 5310.0, 5362.0, 5643.0, 5397.0, 5676.0, 5692.0, 5419.0, 5553.0, 5268.0, 5555.0, 5278.0, 5468.0, 5559.0, 5649.0, 5716.0, 5318.0, 5444.0, 5428.0, 5327.0, 5415.0, 5478.0, 5309.0, 5578.0, 5612.0, 5505.0, 5297.0, 5721.0, 5347.0, 5627.0, 5412.0, 5722.0, 5714.0, 5702.0, 5329.0, 5467.0, 5334.0, 5409.0, 5390.0, 5515.0, 5673.0, 5399.0, 5361.0, 5583.0, 5336.0, 5524.0, 5457.0, 5352.0, 5379.0, 5647.0, 5376.0, 5523.0, 5700.0, 5707.0 (number of hits: 9)
20	5270	9	1	333	1	5685.0, 5461.0, 5635.0, 5573.0, 5339.0, 5362.0, 5413.0, 5332.0, 5418.0, 5407.0, 5551.0, 5631.0, 5598.0, 5599.0, 5432.0, 5443.0, 5532.0, 5528.0, 5307.0, 5687.0, 5724.0, 5282.0, 5678.0, 5385.0, 5540.0, 5656.0, 5611.0, 5490.0, 5575.0, 5264.0, 5266.0, 5614.0, 5401.0, 5310.0, 5428.0, 5545.0, 5457.0, 5291.0, 5351.0, 5423.0,

						5506.0, 5567.0, 5386.0, 5505.0, 5624.0, 5671.0, 5594.0, 5721.0, 5701.0, 5257.0, 5429.0, 5593.0, 5387.0, 5504.0, 5420.0, 5315.0, 5708.0, 5320.0, 5439.0, 5596.0, 5437.0, 5603.0, 5500.0, 5630.0, 5692.0, 5536.0, 5309.0, 5469.0, 5294.0, 5326.0, 5417.0, 5548.0, 5493.0, 5486.0, 5283.0, 5520.0, 5641.0, 5337.0, 5591.0, 5356.0, 5450.0, 5275.0, 5328.0, 5517.0, 5499.0, 5615.0, 5447.0, 5689.0, 5584.0, 5453.0, 5376.0, 5419.0, 5272.0, 5314.0, 5319.0, 5389.0, 5399.0, 5626.0, 5255.0, 5474.0 (number of hits: 6)
21	5270	9	1	333	1	5672.0, 5439.0, 5375.0, 5671.0, 5364.0, 5381.0, 5337.0, 5504.0, 5681.0, 5448.0, 5667.0, 5446.0, 5552.0, 5371.0, 5633.0, 5396.0, 5494.0, 5342.0, 5440.0, 5445.0, 5689.0, 5401.0, 5668.0, 5411.0, 5338.0, 5529.0, 5537.0, 5367.0, 5611.0, 5612.0, 5252.0, 5298.0, 5382.0, 5647.0, 5599.0, 5266.0, 5580.0, 5530.0, 5584.0, 5322.0, 5309.0, 5469.0, 5278.0, 5389.0, 5430.0, 5631.0, 5674.0, 5290.0, 5714.0, 5410.0, 5654.0, 5318.0, 5400.0, 5564.0, 5659.0, 5630.0, 5457.0, 5582.0, 5324.0, 5480.0, 5332.0, 5262.0, 5679.0, 5619.0, 5462.0, 5625.0, 5550.0, 5384.0, 5699.0, 5596.0, 5254.0, 5435.0, 5617.0, 5261.0, 5420.0, 5652.0, 5498.0, 5569.0, 5334.0, 5525.0, 5476.0, 5688.0, 5715.0, 5386.0, 5656.0, 5256.0, 5393.0, 5658.0, 5280.0, 5287.0, 5378.0, 5303.0, 5710.0, 5327.0, 5638.0, 5429.0, 5640.0, 5454.0, 5271.0, 5610.0 (number of hits: 5)
22	5270	9	1	333	1	5521.0, 5425.0, 5422.0, 5694.0, 5552.0, 5522.0, 5551.0, 5424.0, 5592.0, 5560.0, 5554.0, 5692.0, 5511.0, 5631.0, 5393.0, 5498.0, 5617.0, 5718.0, 5294.0, 5451.0, 5375.0, 5279.0, 5329.0, 5303.0, 5654.0, 5549.0, 5616.0, 5313.0, 5455.0, 5520.0, 5374.0, 5437.0, 5675.0, 5577.0, 5444.0, 5311.0, 5644.0, 5607.0, 5372.0, 5619.0, 5681.0, 5697.0, 5668.0, 5570.0, 5580.0, 5568.0, 5348.0, 5641.0, 5265.0, 5296.0, 5626.0, 5251.0, 5256.0, 5537.0, 5461.0, 5371.0, 5638.0, 5291.0, 5556.0, 5587.0, 5409.0, 5650.0, 5561.0, 5328.0, 5468.0, 5562.0, 5324.0, 5388.0, 5321.0, 5503.0, 5275.0, 5367.0, 5627.0, 5721.0, 5467.0, 5578.0, 5289.0, 5453.0, 5683.0, 5286.0, 5365.0, 5543.0, 5635.0, 5310.0, 5610.0, 5618.0, 5687.0, 5347.0, 5581.0, 5271.0, 5497.0, 5387.0, 5333.0, 5398.0, 5412.0, 5710.0, 5609.0, 5653.0, 5550.0, 5355.0 (number of hits: 9)
23	5270	9	1	333	1	5534.0, 5312.0, 5557.0, 5390.0, 5674.0, 5581.0, 5491.0, 5684.0, 5563.0, 5586.0, 5348.0, 5548.0, 5594.0, 5437.0, 5639.0, 5310.0, 5529.0, 5496.0, 5705.0, 5404.0,

						5474.0, 5446.0, 5423.0, 5620.0, 5683.0, 5315.0, 5314.0, 5387.0, 5469.0, 5539.0, 5650.0, 5340.0, 5493.0, 5271.0, 5399.0, 5543.0, 5719.0, 5412.0, 5478.0, 5616.0, 5440.0, 5410.0, 5441.0, 5699.0, 5293.0, 5519.0, 5477.0, 5710.0, 5290.0, 5624.0, 5325.0, 5483.0, 5286.0, 5256.0, 5508.0, 5615.0, 5317.0, 5559.0, 5297.0, 5308.0, 5370.0, 5468.0, 5352.0, 5486.0, 5395.0, 5424.0, 5420.0, 5621.0, 5274.0, 5251.0, 5703.0, 5457.0, 5455.0, 5379.0, 5542.0, 5686.0, 5282.0, 5276.0, 5277.0, 5414.0, 5463.0, 5550.0, 5355.0, 5634.0, 5499.0, 5588.0, 5442.0, 5666.0, 5512.0, 5253.0, 5527.0, 5597.0, 5708.0, 5405.0, 5574.0, 5299.0, 5715.0, 5654.0, 5523.0, 5462.0 (number of hits: 9)
24	5270	9	1	333	1	5622.0, 5662.0, 5306.0, 5555.0, 5392.0, 5518.0, 5665.0, 5502.0, 5628.0, 5617.0, 5386.0, 5337.0, 5256.0, 5388.0, 5695.0, 5322.0, 5289.0, 5470.0, 5294.0, 5609.0, 5477.0, 5347.0, 5631.0, 5303.0, 5626.0, 5419.0, 5640.0, 5298.0, 5699.0, 5330.0, 5485.0, 5309.0, 5427.0, 5310.0, 5703.0, 5636.0, 5704.0, 5301.0, 5683.0, 5373.0, 5334.0, 5454.0, 5635.0, 5602.0, 5345.0, 5513.0, 5663.0, 5697.0, 5612.0, 5578.0, 5521.0, 5296.0, 5425.0, 5559.0, 5276.0, 5300.0, 5279.0, 5676.0, 5312.0, 5574.0, 5354.0, 5545.0, 5496.0, 5633.0, 5417.0, 5595.0, 5696.0, 5709.0, 5629.0, 5577.0, 5589.0, 5423.0, 5607.0, 5514.0, 5450.0, 5479.0, 5720.0, 5557.0, 5367.0, 5393.0, 5649.0, 5598.0, 5527.0, 5505.0, 5550.0, 5510.0, 5362.0, 5648.0, 5668.0, 5341.0, 5448.0, 5560.0, 5365.0, 5361.0, 5642.0, 5311.0, 5282.0, 5363.0, 5528.0, 5258.0 (number of hits: 12)
25	5270	9	1	333	1	5544.0, 5559.0, 5415.0, 5653.0, 5430.0, 5474.0, 5705.0, 5266.0, 5287.0, 5719.0, 5502.0, 5254.0, 5477.0, 5312.0, 5358.0, 5517.0, 5536.0, 5680.0, 5546.0, 5370.0, 5649.0, 5368.0, 5272.0, 5324.0, 5353.0, 5317.0, 5314.0, 5468.0, 5403.0, 5280.0, 5441.0, 5634.0, 5263.0, 5608.0, 5278.0, 5373.0, 5542.0, 5322.0, 5552.0, 5573.0, 5277.0, 5298.0, 5318.0, 5490.0, 5303.0, 5336.0, 5300.0, 5448.0, 5494.0, 5701.0, 5689.0, 5299.0, 5301.0, 5603.0, 5409.0, 5426.0, 5722.0, 5654.0, 5618.0, 5458.0, 5492.0, 5274.0, 5652.0, 5452.0, 5361.0, 5379.0, 5651.0, 5297.0, 5435.0, 5369.0, 5621.0, 5383.0, 5529.0, 5371.0, 5268.0, 5251.0, 5647.0, 5484.0, 5427.0, 5464.0, 5548.0, 5659.0, 5525.0, 5310.0, 5610.0, 5679.0, 5708.0, 5589.0, 5683.0, 5675.0, 5440.0, 5617.0, 5387.0, 5352.0, 5505.0, 5512.0, 5462.0, 5493.0, 5500.0, 5714.0 (number of hits: 10)

26	5270	9	1	333	1	5453.0, 5325.0, 5539.0, 5468.0, 5704.0, 5458.0, 5370.0, 5514.0, 5667.0, 5542.0, 5251.0, 5376.0, 5373.0, 5385.0, 5482.0, 5417.0, 5451.0, 5527.0, 5480.0, 5516.0, 5330.0, 5274.0, 5312.0, 5387.0, 5708.0, 5548.0, 5359.0, 5675.0, 5263.0, 5499.0, 5530.0, 5459.0, 5321.0, 5367.0, 5302.0, 5711.0, 5501.0, 5368.0, 5377.0, 5589.0, 5446.0, 5710.0, 5460.0, 5298.0, 5644.0, 5545.0, 5724.0, 5464.0, 5309.0, 5611.0, 5440.0, 5567.0, 5671.0, 5608.0, 5701.0, 5534.0, 5679.0, 5575.0, 5588.0, 5354.0, 5718.0, 5553.0, 5550.0, 5531.0, 5331.0, 5426.0, 5261.0, 5280.0, 5654.0, 5556.0, 5616.0, 5413.0, 5477.0, 5597.0, 5660.0, 5398.0, 5319.0, 5721.0, 5700.0, 5262.0, 5713.0, 5619.0, 5348.0, 5366.0, 5523.0, 5442.0, 5471.0, 5690.0, 5528.0, 5402.0, 5565.0, 5467.0, 5342.0, 5543.0, 5661.0, 5267.0, 5324.0, 5544.0, 5617.0, 5403.0 (number of hits: 4)
27	5270	9	1	333	1	5295.0, 5433.0, 5707.0, 5698.0, 5586.0, 5628.0, 5403.0, 5634.0, 5357.0, 5686.0, 5301.0, 5330.0, 5679.0, 5455.0, 5617.0, 5257.0, 5279.0, 5483.0, 5364.0, 5355.0, 5571.0, 5318.0, 5442.0, 5464.0, 5292.0, 5325.0, 5510.0, 5635.0, 5711.0, 5345.0, 5606.0, 5509.0, 5352.0, 5700.0, 5251.0, 5333.0, 5444.0, 5536.0, 5717.0, 5503.0, 5513.0, 5516.0, 5255.0, 5396.0, 5648.0, 5640.0, 5596.0, 5463.0, 5576.0, 5387.0, 5537.0, 5440.0, 5269.0, 5300.0, 5696.0, 5402.0, 5506.0, 5374.0, 5585.0, 5411.0, 5544.0, 5567.0, 5290.0, 5423.0, 5296.0, 5517.0, 5271.0, 5259.0, 5545.0, 5377.0, 5641.0, 5683.0, 5642.0, 5684.0, 5368.0, 5534.0, 5549.0, 5328.0, 5579.0, 5501.0, 5692.0, 5398.0, 5612.0, 5329.0, 5268.0, 5261.0, 5484.0, 5565.0, 5627.0, 5548.0, 5418.0, 5623.0, 5543.0, 5573.0, 5468.0, 5505.0, 5582.0, 5540.0, 5662.0, 5481.0 (number of hits: 6)
28	5270	9	1	333	1	5599.0, 5401.0, 5634.0, 5360.0, 5621.0, 5276.0, 5446.0, 5465.0, 5394.0, 5513.0, 5358.0, 5589.0, 5525.0, 5476.0, 5586.0, 5701.0, 5537.0, 5567.0, 5462.0, 5316.0, 5423.0, 5410.0, 5432.0, 5257.0, 5637.0, 5390.0, 5693.0, 5655.0, 5274.0, 5260.0, 5517.0, 5686.0, 5400.0, 5420.0, 5377.0, 5437.0, 5414.0, 5679.0, 5552.0, 5421.0, 5714.0, 5455.0, 5430.0, 5646.0, 5386.0, 5289.0, 5494.0, 5666.0, 5711.0, 5483.0, 5500.0, 5425.0, 5565.0, 5259.0, 5663.0, 5578.0, 5362.0, 5283.0, 5484.0, 5541.0, 5505.0, 5376.0, 5327.0, 5324.0, 5466.0, 5252.0, 5277.0, 5435.0, 5523.0, 5281.0, 5664.0, 5328.0, 5577.0, 5572.0, 5650.0, 5307.0, 5636.0, 5697.0, 5721.0, 5322.0, 5511.0, 5613.0, 5412.0, 5326.0, 5339.0,

						5448.0, 5689.0, 5668.0, 5568.0, 5694.0, 5675.0, 5485.0, 5512.0, 5440.0, 5306.0, 5510.0, 5580.0, 5635.0, 5487.0, 5297.0 (number of hits: 4)
29	5270	9	1	333	1	5592.0, 5545.0, 5630.0, 5314.0, 5567.0, 5333.0, 5541.0, 5599.0, 5331.0, 5664.0, 5489.0, 5498.0, 5402.0, 5577.0, 5675.0, 5317.0, 5447.0, 5286.0, 5711.0, 5394.0, 5558.0, 5453.0, 5255.0, 5699.0, 5338.0, 5669.0, 5627.0, 5350.0, 5299.0, 5279.0, 5323.0, 5388.0, 5458.0, 5668.0, 5493.0, 5481.0, 5643.0, 5478.0, 5688.0, 5488.0, 5537.0, 5256.0, 5690.0, 5263.0, 5261.0, 5406.0, 5475.0, 5284.0, 5697.0, 5449.0, 5676.0, 5611.0, 5650.0, 5414.0, 5603.0, 5262.0, 5464.0, 5615.0, 5522.0, 5656.0, 5672.0, 5471.0, 5616.0, 5280.0, 5499.0, 5666.0, 5434.0, 5504.0, 5381.0, 5340.0, 5312.0, 5482.0, 5429.0, 5364.0, 5503.0, 5413.0, 5348.0, 5440.0, 5720.0, 5474.0, 5533.0, 5293.0, 5602.0, 5631.0, 5525.0, 5568.0, 5415.0, 5308.0, 5719.0, 5620.0, 5644.0, 5576.0, 5593.0, 5534.0, 5403.0, 5512.0, 5360.0, 5437.0, 5491.0, 5604.0 (number of hits: 6)
30	5270	9	1	333	1	5670.0, 5586.0, 5455.0, 5444.0, 5496.0, 5391.0, 5531.0, 5313.0, 5544.0, 5572.0, 5294.0, 5690.0, 5705.0, 5426.0, 5289.0, 5603.0, 5361.0, 5592.0, 5628.0, 5433.0, 5373.0, 5622.0, 5703.0, 5509.0, 5277.0, 5437.0, 5292.0, 5369.0, 5581.0, 5375.0, 5663.0, 5380.0, 5552.0, 5467.0, 5661.0, 5707.0, 5584.0, 5580.0, 5487.0, 5306.0, 5659.0, 5517.0, 5564.0, 5335.0, 5386.0, 5383.0, 5676.0, 5330.0, 5612.0, 5522.0, 5354.0, 5500.0, 5710.0, 5338.0, 5405.0, 5474.0, 5394.0, 5593.0, 5689.0, 5267.0, 5493.0, 5314.0, 5717.0, 5490.0, 5602.0, 5536.0, 5695.0, 5304.0, 5456.0, 5381.0, 5664.0, 5615.0, 5344.0, 5694.0, 5276.0, 5332.0, 5511.0, 5596.0, 5607.0, 5559.0, 5442.0, 5697.0, 5374.0, 5260.0, 5512.0, 5320.0, 5278.0, 5718.0, 5589.0, 5389.0, 5702.0, 5675.0, 5723.0, 5570.0, 5446.0, 5399.0, 5460.0, 5348.0, 5484.0, 5468.0 (number of hits: 7)

5550 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	70 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate (Type1 to 4)	120	90 %	80%	Pass
Type 5	30	96.7 %	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	0
8	5550	18	1	1428	0
9	5550	18	1	1428	1
10	5550	18	1	1428	1
11	5550	18	1	1428	0
12	5550	18	1	1428	1
13	5550	18	1	1428	0
14	5550	18	1	1428	1
15	5550	18	1	1428	0
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	0
27	5550	18	1	1428	1
28	5550	18	1	1428	0
29	5550	18	1	1428	1
30	5550	18	1	1428	0
Detection Percentage: 70 % (>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	26	1.1	193	1
2	5550	23	3.5	168	1
3	5550	24	3.9	219	1
4	5550	26	3.9	205	1
5	5550	28	3.2	167	1
6	5550	28	2.1	158	1
7	5550	26	2.6	183	1
8	5550	23	3.6	193	1
9	5550	27	1.4	224	1
10	5550	27	1.9	212	1
11	5550	28	1.7	191	1
12	5550	24	3.8	214	1
13	5550	27	2.7	223	1
14	5550	29	2.7	157	1
15	5550	24	1.2	208	1
16	5550	25	3.3	178	1
17	5550	25	2.5	194	1
18	5550	26	1.9	216	1
19	5550	25	4.3	152	1
20	5550	27	4.5	228	1
21	5550	29	2.3	216	1
22	5550	24	2.3	222	1
23	5550	26	5	196	1
24	5550	27	4.3	230	1
25	5550	29	3.8	219	1
26	5550	29	4.1	204	1
27	5550	29	4	174	1
28	5550	24	2.7	168	1
29	5550	29	3.6	203	1
30	5550	26	4.4	226	1
Detection Percentage: 100% (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5550	17	7.7	230	1
2	5550	16	8.4	298	1
3	5550	18	9.4	460	1
4	5550	16	9.6	282	1
5	5550	18	6.9	480	1
6	5550	17	6.4	343	1
7	5550	18	9	300	1
8	5550	18	9.4	461	1
9	5550	16	6.4	312	0
10	5550	18	8.9	248	1
11	5550	17	7.1	361	1
12	5550	16	7.4	359	1
13	5550	18	8.3	261	1
14	5550	17	7.5	216	1
15	5550	18	10	483	1
16	5550	18	8.7	459	1
17	5550	18	8.3	263	1
18	5550	18	8.6	461	1
19	5550	18	6.2	363	1
20	5550	17	7.8	429	1
21	5550	18	9.8	291	1
22	5550	16	7	327	1
23	5550	18	6.9	366	1
24	5550	18	7.2	437	1
25	5550	17	9.2	483	1
26	5550	17	8	466	1
27	5550	18	7.1	404	1
28	5550	16	6	337	1
29	5550	16	10	221	1
30	5550	16	6.9	292	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	12	13	261	1
2	5550	16	13.6	478	1
3	5550	15	18.6	224	1
4	5550	12	13.3	477	1
5	5550	16	11.6	316	1
6	5550	14	17	250	1
7	5550	13	15.3	208	1
8	5550	14	13.3	469	1
9	5550	16	11.2	364	1
10	5550	12	13.6	237	1
11	5550	12	11.9	452	1
12	5550	13	14.7	308	1
13	5550	15	13	269	1
14	5550	16	18.8	250	1
15	5550	15	17.4	354	1
16	5550	15	17.3	251	1
17	5550	12	19.9	257	1
18	5550	16	12.7	224	1
19	5550	14	11.3	354	1
20	5550	14	11.1	327	1
21	5550	13	15.8	472	1
22	5550	14	16.4	293	1
23	5550	15	18.2	450	1
24	5550	14	18.1	492	1
25	5550	16	13.8	324	1
26	5550	16	12.7	372	0
27	5550	14	19.7	410	1
28	5550	13	18.5	395	0
29	5550	16	16.3	227	1
30	5550	12	13.3	366	1
Detection Percentage: 93.3 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	84.9	1949		0.070418	1
1	2	18	65.8	1199		1.174082	
2	1	15	64.2			2.125072	
3	3	7	72	1126	1801	2.28225	
4	2	7	90.5	1481		3.023537	
5	2	19	94.3	1409		4.077697	
6	1	9	91.6			4.771041	
7	2	5	77.6	1639		5.276713	
8	1	16	84.8			6.048347	
9	3	11	93.2	1731	1865	7.172298	
10	1	12	95.2			8.210943	
11	2	19	87.8	1208		8.432319	
12	1	5	74			9.182143	
13	2	8	64.3	1697		10.40829	
14	2	13	80	1302		11.14034	
15	2	7	53	1272		11.25237	

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	11	88.6	1448	1175	0.166716	1
1	2	13	72.1	1444		1.464384	
2	2	14	70.8	1010		2.050486	
3	3	6	52.1	1363	1982	3.442426	
4	1	12	75.2			4.286906	
5	3	19	89.5	1040	1479	5.220118	
6	3	14	83.6	1345	1293	6.50869	
7	2	12	72.5	1764		7.317247	
8	2	6	75.8	1227		8.118957	
9	1	8	58.3			9.298225	
10	2	14	76.4	1170		10.28139	
11	2	10	76.3	1013		11.7482	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	90.9	1961		0.08873	1
1	2	12	58.2	1082		1.344721	
2	2	9	93.3	1855		1.754035	
3	2	17	96.2	1605		2.536787	
4	3	16	65.9	1071	1117	3.622741	
5	2	7	89.7	1350		4.292067	
6	2	19	84.8	1400		5.261077	
7	3	8	97	1158	1364	5.711697	
8	2	16	83.2	1937		7.170485	
9	3	9	67.7	1101	1191	7.732632	
10	3	17	51.1	1072	1356	8.790929	
11	2	9	80.7	1550		9.038992	
12	1	12	65.4			10.12261	
13	3	18	86.3	1020	1388	11.05424	
14	3	12	97.1	1887	1630	11.29142	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	74.7	1738		0.559588	1
1	3	8	90.1	1782	1514	1.281617	
2	3	5	99.5	1271	1826	2.133435	
3	1	10	83.3			3.638526	
4	2	15	59.3	1362		4.001725	
5	2	12	81	1035		5.838705	
6	2	10	69.5	1850		6.937293	
7	2	10	76.9	1509		7.909384	
8	2	14	68.8	1676		8.074719	
9	2	6	88.6	1284		9.235552	
10	2	5	67.5	1481		10.97901	
11	1	8	91.7			11.48096	

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	17	87.3	1369		0.174944	1
1	1	12	97.9			0.814553	
2	3	13	59.2	1272	1610	1.837055	
3	2	8	95	1010		2.359231	
4	2	9	61.5	1998		2.904652	
5	1	5	62.5			3.660438	
6	2	13	71	1486		4.480839	
7	3	13	79.3	1983	1309	5.164551	
8	2	13	66.7	1943		5.680169	
9	3	10	70	1474	1507	6.437346	
10	2	19	91.2	1378		6.795663	
11	3	6	71.5	1245	1054	7.801752	
12	1	19	84.3			8.512271	
13	2	6	67.2	1401		8.890869	
14	2	12	56.8	1506		9.425623	
15	3	7	82.6	1024	1112	10.46186	
16	2	6	62.6	1331		10.6813	
17	2	19	61.9	1512		11.65043	

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	6	88.2	1024		0.128071	1
1	2	5	55	1655		0.904843	
2	3	19	71.3	1323	1853	1.599579	
3	2	12	70.1	1916		2.550671	
4	2	14	55.7	1065		3.500125	
5	3	15	63	1167	1216	4.483807	
6	2	10	70.9	1743		4.723465	
7	2	12	78.5	1653		5.357275	
8	2	13	53.3	1299		6.203684	
9	1	9	69.9			6.963785	
10	1	9	87.9			7.992219	
11	1	10	94.7			8.959215	
12	2	11	78.3	1845		9.553669	
13	2	13	97.9	1307		10.38851	
14	2	12	67.5	1935		11.16242	
15	3	15	94.7	1766	1589	11.75723	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	75.8	1403		0.059386	1
1	3	18	55.1	1481	1537	0.687564	
2	2	7	69.2	1997		1.746905	
3	2	12	68.3	1103		2.330365	
4	2	12	91.4	1353		2.723234	
5	3	15	66.7	1806	1989	3.884529	
6	2	9	72	1013		4.62162	
7	2	18	68.4	1229		5.196307	
8	2	18	72.4	1028		5.655861	
9	2	17	53.5	1361		6.610147	
10	2	8	54.4	1780		6.819809	
11	2	12	63.5	1638		7.597526	
12	2	11	62.6	1209		8.589525	
13	1	9	93.5			8.789179	
14	3	14	56.7	1671	1845	9.533898	
15	2	7	69.8	1360		10.35294	
16	1	12	92			11.22288	
17	3	12	66.2	1238	1761	11.9671	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	93.3	1058		0.206769	1
1	2	8	52.5	1769		1.684033	
2	2	18	59.5	1579		2.152574	
3	2	11	64.5	1012		2.784394	
4	1	18	56.8			4.181696	
5	1	8	88.1			4.666535	
6	2	7	87.3	1627		5.317272	
7	2	17	63.4	1553		6.661662	
8	3	12	69.1	1819	1986	7.619444	
9	3	18	55.6	1829	1328	7.924275	
10	2	10	70.5	1704		9.267862	
11	2	20	100	1860		9.518252	
12	2	19	53.6	1498		10.8	
13	2	13	61	1343		11.781	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	54.6	1820	1356	1.078612	1
1	2	13	80.1	1575		1.889857	
2	2	13	54.2	1396		3.375545	
3	3	11	53.3	1842	1891	4.789121	
4	3	9	57.9	1990	1094	6.041268	
5	3	8	65.8	1001	1681	8.621539	
6	3	7	93	1053	1408	9.457841	
7	1	14	63.1			10.5513	

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	16	88.8	1474		0.058133	0
1	3	20	50	1495	1503	0.956331	
2	1	14	68.4			1.669969	
3	3	19	61	1564	1250	2.269373	
4	2	12	61.2	1113		2.533451	
5	1	10	54.7			3.782022	
6	3	7	67.8	1232	1027	3.841667	
7	1	13	98.5			4.911026	
8	1	9	58.4			5.06706	
9	1	14	53.5			5.82895	
10	3	6	57	1998	1917	6.788344	
11	1	6	80.2			7.27627	
12	1	9	52.1			7.803617	
13	3	15	83.2	1737	1465	8.468912	
14	3	13	64.5	1493	1279	9.040495	
15	1	15	80.7			10.09207	
16	2	7	71.8	1492		10.37239	
17	1	13	79.3			11.22694	
18	1	10	71.3			11.87984	

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	17	64.5	1414		0.252361	1
1	1	16	93.3			1.071909	
2	2	10	61.6	1548		1.60208	
3	2	6	83.3	1064		2.187528	
4	1	16	86.8			3.31567	
5	3	10	60.1	1500	1967	3.446953	
6	2	7	82	1764		4.571274	
7	2	7	71.5	1351		5.024559	
8	2	6	95.5	1968		5.729874	
9	2	12	71.9	1186		6.215798	
10	3	15	82	1584	1826	6.758374	
11	1	13	53.3			7.878958	
12	2	15	57.6	1086		8.365945	
13	2	7	62.2	1337		8.939624	
14	1	6	55.5			9.881228	
15	2	19	71.5	1397		10.42248	
16	1	16	77.7			10.70121	
17	1	8	71.3			11.88512	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	51.1	1002	1200	0.502385	1
1	1	11	73.6			2.651349	
2	1	8	58.4			3.697751	
3	2	11	51.4	1094		5.630535	
4	2	6	52.3	1249		6.69024	
5	2	17	50.7	1060		8.747322	
6	3	15	57.7	1133	1220	10.28782	
7	3	13	53.5	1413	1489	11.10457	

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	10	95.5			0.733483	1
1	2	18	69.3	1761		1.062906	
2	3	10	75.7	1802	1345	2.743667	
3	2	16	69.9	1351		2.915644	
4	2	19	94.7	1285		3.714386	
5	3	18	72.2	1686	1885	5.276131	
6	3	17	59.1	1120	1911	6.340607	
7	2	17	85.9	1908		7.14756	
8	2	13	68.6	1598		7.562482	
9	2	16	77.1	1912		8.891576	
10	3	18	92.8	1277	1475	9.753475	
11	1	11	82.9			10.28644	
12	2	13	82.1	1147		11.26381	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	72.8	1741	1839	0.39969	1
1	2	11	79	1287		0.862151	
2	1	8	99.5			1.40506	
3	1	18	85.6			2.190612	
4	2	13	69.1	1400		2.782478	
5	1	6	72.8			3.216821	
6	2	18	77.6	1306		3.952342	
7	2	15	55.9	1558		4.732092	
8	3	10	56.1	1340	1594	5.419984	
9	2	16	63.6	1584		6.015272	
10	2	10	98.9	1337		6.488237	
11	1	9	67.2			7.064253	
12	2	18	58.9	1673		7.792138	
13	1	11	67			8.333309	
14	3	11	88.2	1122	1934	9.404458	
15	1	11	51.5			10.03551	
16	2	11	64.8	1733		10.44921	
17	3	16	69.6	1420	1096	10.83777	
18	3	7	90.8	1599	1473	11.46164	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	55.8	1662		0.538314	1
1	2	10	50.4	1698		1.424041	
2	1	10	75			2.611108	
3	1	8	58.9			3.660379	
4	1	17	61.5			4.342235	
5	3	11	80.9	1551	1630	4.926648	
6	2	8	85.6	1015		6.137102	
7	3	14	85.8	1100	1485	7.175829	
8	2	11	52.2	1236		7.900669	
9	3	6	52.7	1621	1219	9.050825	
10	3	15	60.4	1292	1250	9.531194	
11	1	15	66.4			10.48192	
12	2	15	51.6	1646		11.39019	

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	8	97.3			0.599459	1
1	2	9	54.7	1283		0.681132	
2	2	7	76.9	1525		1.730705	
3	2	9	73.2	1329		2.238158	
4	1	14	68.6			2.673008	
5	2	18	69.8	1196		3.385406	
6	3	17	94.2	1137	1752	4.375663	
7	2	14	57.9	1080		4.770089	
8	2	10	95.4	1790		5.786907	
9	2	15	50.3	1630		6.501845	
10	3	6	97.4	1571	1390	6.715943	
11	3	8	74.5	1364	1807	7.678042	
12	1	16	77.8			8.10703	
13	3	9	66.1	1965	1960	9.212471	
14	2	18	60.9	1694		9.74915	
15	1	6	56.4			10.09386	
16	3	19	69.2	1796	1011	10.70329	
17	2	5	53.5	1683		11.47647	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	87.5			0.676197	1
1	2	20	85.1	1993		1.442098	
2	3	16	92.3	1875	1523	1.72488	
3	1	15	74.7			2.857583	
4	1	13	86			3.679875	
5	2	19	86	1187		4.230511	
6	3	16	72.1	1511	1442	4.755867	
7	2	14	74.8	1441		5.372184	
8	2	9	88.4	1382		6.361776	
9	1	5	69.2			6.969372	
10	2	12	72.4	1519		7.918229	
11	3	10	89.1	1871	1061	8.745066	
12	1	12	56.7			9.732545	
13	2	7	75.6	1489		9.93289	
14	2	9	89.7	1367		11.12566	
15	2	17	85.9	1360		11.97264	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	62.4	1468		0.313507	1
1	3	5	79.7	1204	1292	1.991592	
2	1	10	86.3			3.27634	
3	2	15	64.6	1910		4.41715	
4	2	8	86.4	1212		4.892791	
5	1	15	80.5			6.601438	
6	1	14	73.7			7.72801	
7	3	14	51.4	1094	1636	8.585693	
8	2	19	69.7	1158		10.1993	
9	2	11	67.8	1355		11.53647	

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	10	86.7	1822	1449	0.421888	1
1	2	19	88	1628		0.891251	
2	1	14	75.8			1.838731	
3	2	12	65.6	1968		2.675517	
4	2	16	91.8	1583		3.239368	
5	2	7	84.5	1220		4.345345	
6	2	12	77.5	1201		4.561316	
7	3	16	56.4	1457	1643	5.794784	
8	2	17	79.6	1919		6.044443	
9	3	7	58.8	1808	1262	7.252339	
10	2	14	60.2	1499		7.829016	
11	2	7	69.7	1168		8.832587	
12	1	8	83.2			9.148466	
13	2	17	87.2	1522		9.866002	
14	1	10	53			10.63929	
15	2	7	70.2	1233		11.96408	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	64.1	1472		0.771779	1
1	2	17	64.8	1054		1.376451	
2	2	19	77.3	1189		2.061593	
3	1	13	57.5			2.791567	
4	3	18	87.9	1932	1261	3.35571	
5	1	7	85.1			4.26604	
6	2	17	54.8	1778		4.818705	
7	2	7	55.4	1266		5.841697	
8	2	10	74.3	1270		6.982317	
9	1	16	62.4			7.394804	
10	2	18	71.5	1231		8.747822	
11	1	18	78.3			9.431798	
12	2	13	51.8	1042		10.18796	
13	1	7	71.7			11.12063	
14	1	16	82.8			11.36656	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	95.9	1965		0.38419	1
1	2	17	53.3	1509		1.379832	
2	1	12	66.8			2.108085	
3	2	12	76.3	1401		2.472847	
4	2	19	71.7	1513		3.076418	
5	2	6	56.1	1747		3.575613	
6	2	17	93.7	1074		4.431221	
7	3	6	90.8	1777	1927	5.100949	
8	1	7	88.6			5.750388	
9	2	16	65.3	1195		6.888088	
10	2	14	78.6	1879		7.654345	
11	3	17	83.2	1234	1924	8.457208	
12	3	20	96	1862	1756	8.702935	
13	2	9	88.3	1973		9.427497	
14	3	6	50.4	1154	1935	10.063497	
15	1	14	79.1			11.14969	
16	1	7	76.2			11.436865	

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	10	82.9	1194	1021	0.013926	1
1	2	13	54.7	1763		0.668692	
2	2	15	79.6	1723		1.309211	
3	1	8	74.3			2.518875	
4	2	6	81.8	1286		2.59468	
5	2	8	50.5	1999		3.39571	
6	2	19	85.6	1162		4.347964	
7	1	13	98.7			4.688358	
8	2	7	63.7	1117		5.078586	
9	2	19	67.4	1057		6.241608	
10	1	11	63.1			6.838298	
11	2	14	78.3	1917		7.46907	
12	3	19	76.3	1816	1907	7.682174	
13	2	16	53.8	1921		8.480514	
14	2	20	96.7	1960		9.275022	
15	3	19	70	1043	1037	9.808863	
16	3	14	62.6	1696	1784	10.689186	
17	3	5	90	1399	1231	10.820679	
18	2	17	83.1	1081		11.619374	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	58.1	1507	1943	0.722476	1
1	1	15	54.2			1.615086	
2	1	11	73			2.028373	
3	2	7	69.1	1325		2.87084	
4	3	19	77	1922	1956	4.121141	
5	2	9	68.3	1664		5.120496	
6	3	12	80.2	1750	1754	5.427748	
7	2	11	64.4	1022		6.115445	
8	3	10	73.1	1862	1494	7.113024	
9	3	11	61.9	1429	1802	7.937805	
10	1	18	67.4			8.59683	
13	2	18	58.7	1699		11.212424	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	68			0.323553	1
1	3	16	65.7	1956	1440	0.967634	
2	2	10	61.2	1597		1.271128	
3	1	15	88.2			2.104299	
4	2	17	57.4	1025		2.891719	
5	2	10	51.6	1717		3.334656	
6	2	14	61.7	1513		3.696607	
7	2	6	79.9	1093		4.348743	
8	2	13	74.6	1690		5.322456	
9	1	14	55.9			5.658715	
10	2	6	55.9	1733		6.591224	
11	2	19	88.8	1350		7.122349	
12	3	7	55.6	1217	1844	7.666212	
13	2	11	88.1	1302		8.303825	
14	1	19	83.1			8.500537	
15	2	17	73.2	1228		9.249328	
16	2	19	77.3	1529		9.721112	
17	2	15	68.4	1446		10.268011	
18	1	11	66.5			11.183623	
19	2	11	66.7	1739		11.440314	

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	19	59.9	1578	1304	0.4064	1
1	2	14	73.1	1835		0.710897	
2	2	9	91.3	1742		1.48915	
3	3	9	66.3	1101	1238	2.415357	
4	1	6	52.1			3.135193	
5	3	12	61.6	1643	1027	3.481585	
6	1	18	94.5			4.167084	
7	1	13	65.6			4.875639	
8	3	12	67.7	1249	1164	5.677308	
9	3	15	72.1	1475	1816	5.849223	
10	1	10	92.7			6.46626	
11	1	9	97.5			7.409256	
12	3	19	64	1286	1604	8.17759	
13	3	12	70.1	1235	1115	8.453134	
14	2	19	85	1989		9.406193	
15	2	19	59.4	1413		9.727819	
16	2	5	91.3	1249		10.347409	
17	3	10	59.9	1651	1485	11.071484	
18	2	17	85.4	1896		11.416586	

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	11	81	1940		0.430485	1
1	3	15	97	1458	1324	0.637982	
2	2	9	66.2	1180		1.683582	
3	3	6	71.8	1473	1801	2.126759	
4	1	19	85.6			2.812004	
5	2	13	59.1	1588		3.232426	
6	1	11	71.7			3.927663	
7	1	19	69			4.41192	
8	1	8	86.9			5.007782	
9	2	17	73.1	1639		5.414125	
10	3	9	62	1960	1073	6.194541	
11	2	19	89.7	1603		7.030683	
12	2	12	63.8	1989		7.356477	
13	2	14	74.3	1943		8.170665	
14	1	11	75.4			8.933955	
15	1	12	94.9			9.502787	
16	2	18	80.7	1879		10.140528	
17	1	14	77.2			10.577338	
18	3	17	99.5	1186	1392	11.374727	
19	1	7	50.7			11.687129	

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	76.1	1158		0.359151	1
1	2	10	72.3	1377		1.248684	
2	3	6	54.9	1211	1213	2.823151	
3	1	14	53.6			3.767513	
4	3	15	56.3	1058	1353	5.132839	
5	2	7	55.8	1838		6.865789	
6	2	20	97.9	1345		8.108112	
7	1	16	90.9			8.783285	
8	2	17	68.4	1537		9.73783	
9	3	17	93.8	1625	1929	11.844838	

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	66.5	1174		0.594046	1
1	1	8	92			1.178359	
2	2	8	61	1841		1.884217	
3	3	11	50.4	1394	1030	2.140997	
4	3	20	88	1952	1880	3.188758	
5	2	19	77.5	1160		3.54147	
6	1	10	57.7			4.735554	
7	3	7	69.6	1720	1490	5.213586	
8	2	12	79	1300		6.056701	
9	1	17	74.4			6.84293	
10	2	18	97	1479		7.242069	
11	3	8	63.1	1318	1431	8.371357	
12	2	9	55.8	1193		8.982937	
13	1	7	93.6			9.592442	
14	2	20	91	1207		10.532262	
15	1	11	65.5			10.982588	
16	3	6	57.9	1208	1041	11.340767	

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	12	88.5	1936	1434	0.345667	1
1	2	18	68.4	1329		0.880973	
2	2	13	62	1738		1.649811	
3	2	18	53.6	1822		2.376032	
4	3	6	92.5	1798	1734	3.021511	
5	2	9	51.9	1921		3.193642	
6	3	11	90	1422	1452	4.238517	
7	2	17	70.6	1943		4.490986	
8	3	16	75.1	1831	1782	5.32301	
9	2	6	58.7	1338		6.293265	
10	2	17	59.8	1710		6.861956	
11	2	19	58.1	1905		7.432271	
12	1	12	83.1			7.600883	
13	2	7	87.4	1151		8.77374	
14	1	7	83.4			8.885032	
15	1	11	90.9			9.72492	
16	2	8	93.8	1791		10.460613	
17	2	19	50.5	1342		10.779655	
18	3	11	78.4	1586	1420	11.536569	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	87.4	1623		0.127327	1
1	2	17	64.9	1969		0.871468	
2	2	17	84.3	1942		1.33799	
3	1	11	52.4			2.486023	
4	2	8	54.5	1270		3.127223	
5	3	14	67.2	1016	1108	3.444056	
6	2	13	64	1605		4.331027	
7	2	9	60.7	1953		4.510485	
8	2	11	53.5	1791		5.540122	
9	2	9	84.2	1773		6.30471	
10	2	11	97.7	1178		6.612897	
11	2	15	57.2	1006		7.362646	
12	3	15	69.9	1161	1425	7.740765	
13	2	6	69.1	1872		8.50784	
14	2	17	96.8	1944		9.401204	
15	3	9	99.6	1338	1501	9.811128	
16	1	20	75			10.359217	
17	3	14	64.8	1003	1805	11.240874	
18	2	17	60.1	1972		11.905541	

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,

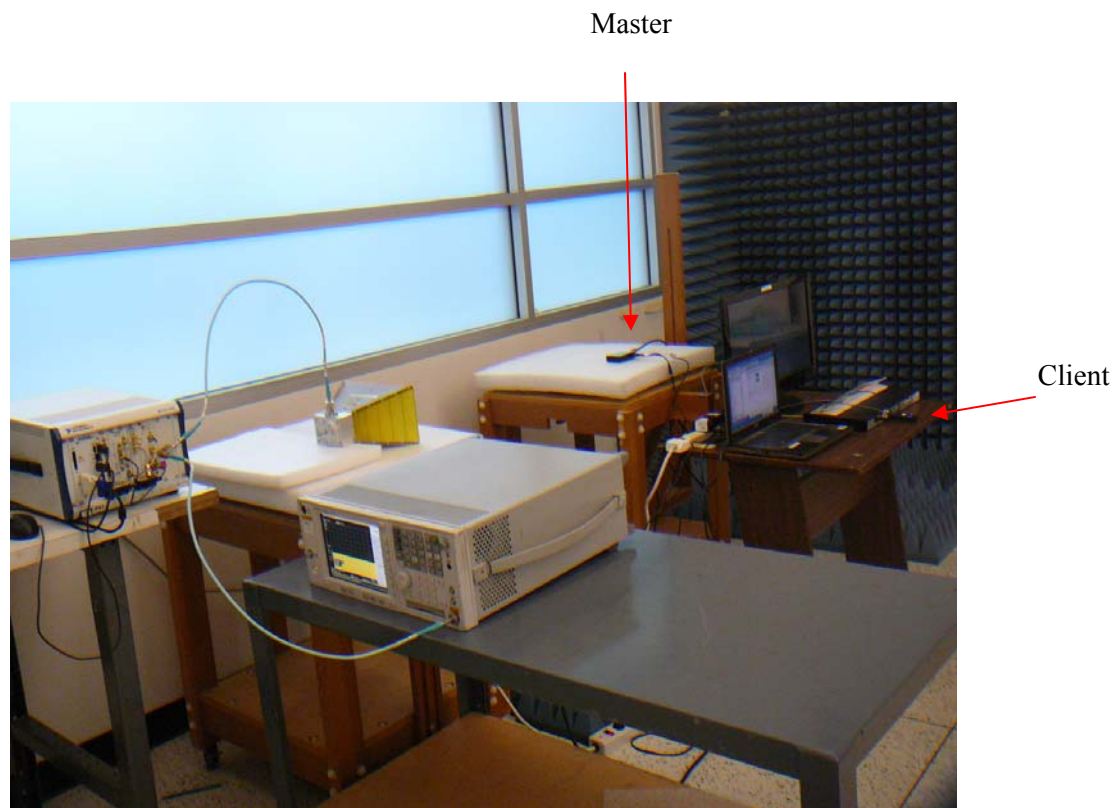
						5536.0, 5458.0, 5657.0, 5552.0, 5584.0, 5365.0, 5577.0, 5620.0, 5372.0, 5388.0, 5314.0, 5569.0, 5442.0, 5257.0, 5271.0, 5646.0, 5466.0, 5461.0, 5678.0, 5568.0 (number of hits: 7)
25	5550	9	1	333	1	5568.0, 5322.0, 5456.0, 5540.0, 5450.0, 5461.0, 5548.0, 5446.0, 5555.0, 5470.0, 5552.0, 5533.0, 5505.0, 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)
--	--	--	--	--	--	---

10 APPENDIX A - TEST SETUP PHOTOGRAPHS

10.1 DFS Setup View

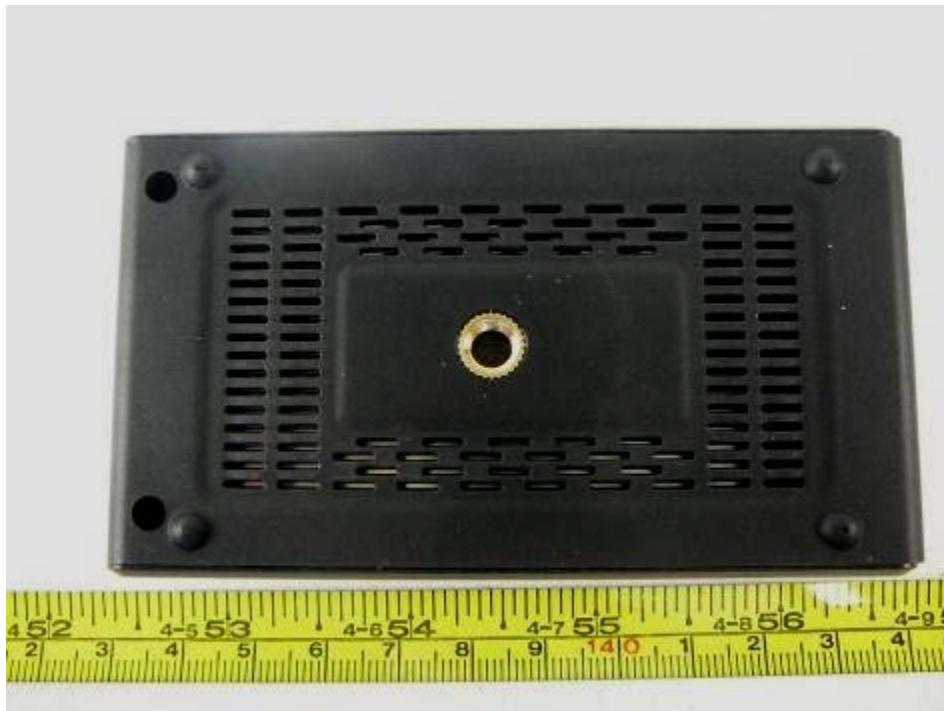


11 APPENDIX B - EUT PHOTOGRAPHS

11.1 EUT Top View



11.2 EUT Bottom View



11.3 EUT Side View 1



11.4 EUT Side View 2



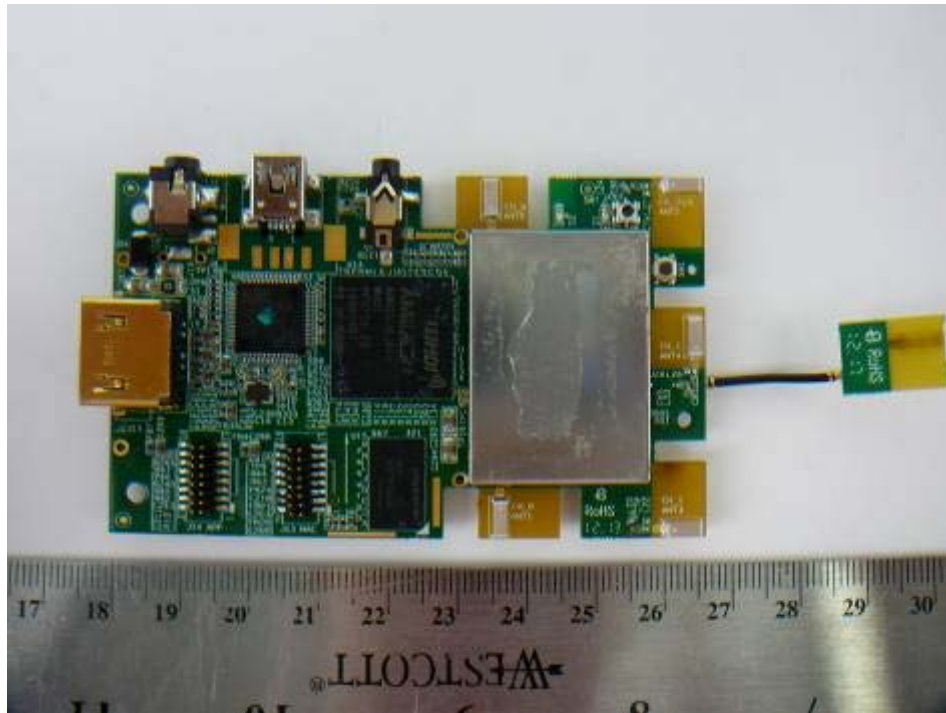
11.5 EUT Side View 3



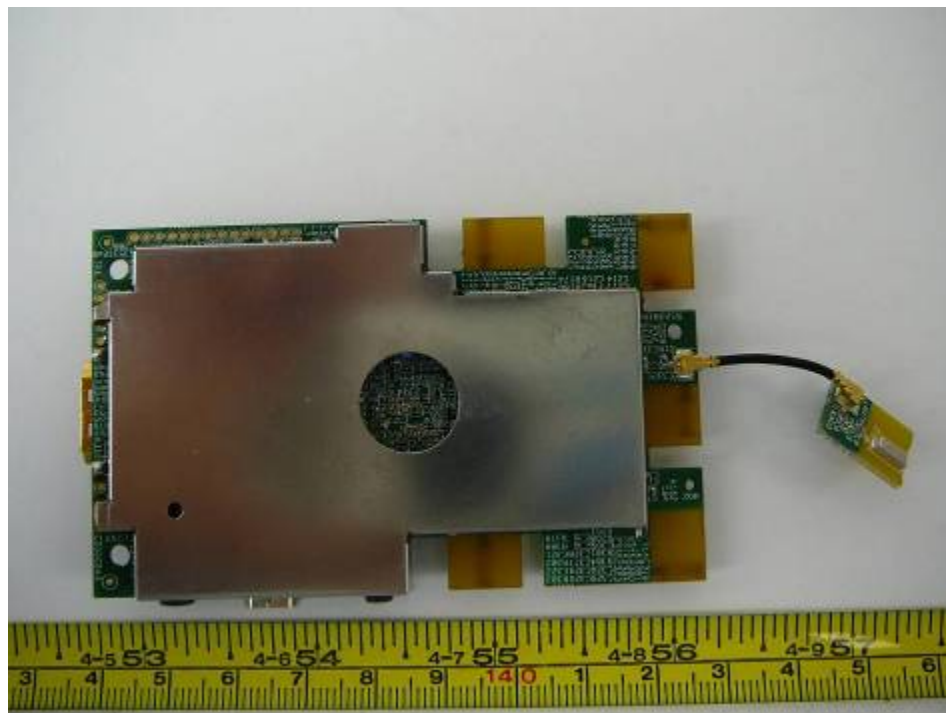
11.6 EUT Side View 4



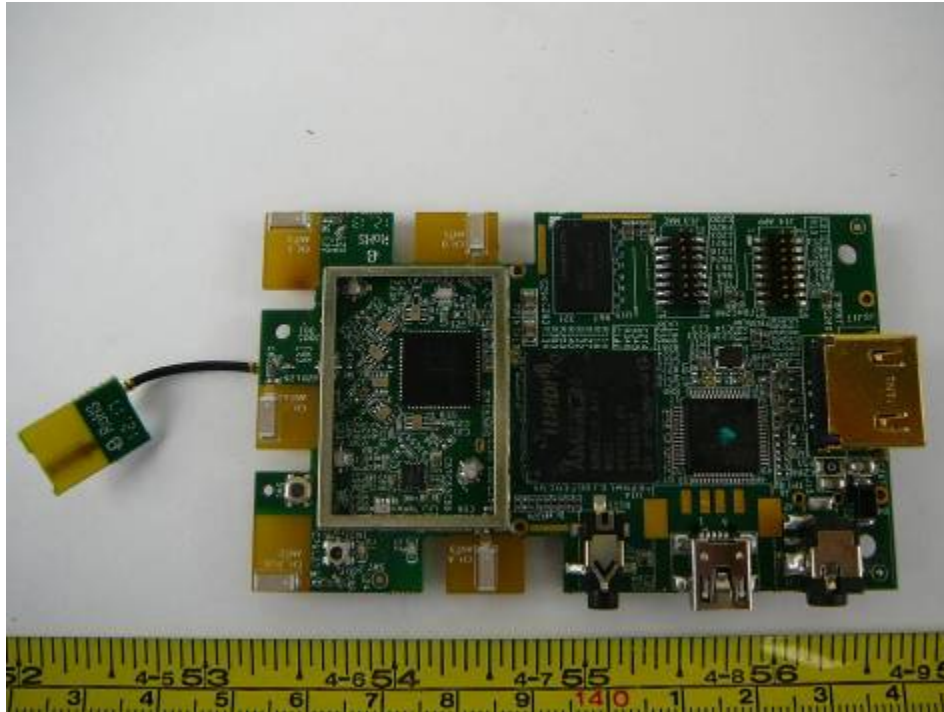
11.7 EUT Open Chassis Top View



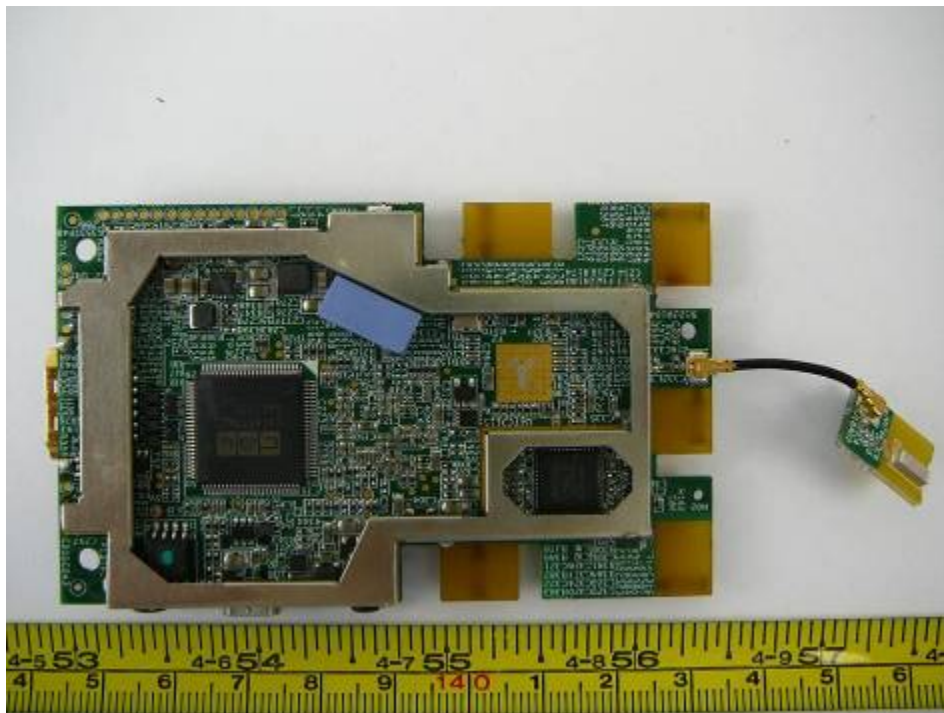
11.8 EUT Open Chassis Bottom View



11.9 Mother Board without Shielding Top View



11.10 Mother Board without Shielding Bottom View



--- END OF REPORT ---