FCC PART 15.407
ISED RSS-247, ISSUE 2
DYNAMIC FREQUENCY SELECTION
TEST REPORT

For

Fortinet, Inc.

899 Kifer Road,

Sunnyvale, CA 94086, USA

FCC ID: TVE-2507T021
IC: 7280B-2507T021

Report Type:	**Product Type:**
Original Report	Access Point

Prepared By:	Chin Ming Lui Test Engineer
Report Number:	R1709086-DFS
Report Date:	2017-11-16
Reviewed By:	Frank Wang RF Engineer
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1709086-DFS	Original Report	-
1	R1709086-DFS Final Rev.A	Final Report Revision	2017-11-16

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of the *Fortinet, Inc.* and their product models *FAP-S221E, FAP-S223E. Fortinet, Inc* has declared that the 2 products are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics except *FAP-S221E* is Internal Antenna, *FAP-S223E* is External Antenna. In this report, only *FAP-S223E* was tested to cover the other corresponding model. Model *FAP-S223E*, FCC ID: TVE-2507T021, IC: 7280B-2507T021, henceforth is referred to as the EUT. The EUT is an access point.

1.2 Mechanical Description of EUT

The EUT measures approximately 200 mm (L) x 200 mm (W) and weighs approximately 1.5 kg.

The data gathered are from production sample provided by the manufacturer, serial number: PS223E3X16000025, assigned by *Fortinet, Inc.*

1.3 Objective

This report is prepared on behalf of *Fortinet, Inc.* in accordance with FCC CFR47 §15.407 (h), RSS-247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h), RSS-247 Issue 2

KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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 Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL's test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Industry Canada under Registration Numbers: 3062A-1, 3062A-2, and 3062A-3.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Annex B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

BACL's test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0027.

1.7 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- ***An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2005 by A2LA (Test Laboratory Accreditation Certificate Number 3297.02),*** in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2005 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report..

BACL's ISO/IEC 17025:2005 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio, RF Exposure, Safety and wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include Central Office Telecommunications Equipment [including NEBS - Network Equipment Building Systems], Unlicensed and Licensed Wireless and RF devices, Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial and Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, and Energy Efficient Lighting.

B- ***A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.03)*** to certify

- For the USA (Federal Communications Commission):
    1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
    2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
    3- All Telephone Terminal Equipment within FCC Scope C.
- For the Canada (Industry Canada):
    1 All Scope 1-Licence-Exempt Radio Frequency Devices;
    2 All Scope 2-Licensed Personal Mobile Radio Services;
    3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
    4 All Scope 4-Licensed Maritime & Aviation Radio Services;
    5 All Scope 5-Licensed Fixed Microwave Radio Services
    6 All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.
- For Singapore (Info-Communications Development Authority (IDA)):
    1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
    2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2
- For the Hong Kong Special Administrative Region:
    1 All Radio Equipment, per KHCA 10XX-series Specifications;
    2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
    3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.
- For Japan:
    1 MIC Telecommunication Business Law (Terminal Equipment):
        - All Scope A1 - Terminal Equipment for the Purpose of Calls;
        - All Scope A2 - Other Terminal Equipment
    2 Radio Law (Radio Equipment):
        - All Scope B1 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
        - All Scope B2 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
        - All Scope B3 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- ***A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.01)*** to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

1 Electronics and Office Equipment:
- for Telephony (ver. 3.0)
- for Audio/Video (ver. 3.0)
- for Battery Charging Systems (ver. 1.1)
- for Set-top Boxes & Cable Boxes (ver. 4.1)
- for Televisions (ver. 6.1)
- for Computers (ver. 6.0)
- for Displays (ver. 6.0)
- for Imaging Equipment (ver. 2.0)
- for Computer Servers (ver. 2.0)

2 Commercial Food Service Equipment
- for Commercial Dishwashers (ver. 2.0)
- for Commercial Ice Machines (ver. 2.0)
- for Commercial Ovens (ver. 2.1)
- for Commercial Refrigerators and Freezers

3 Lighting Products
- For Decorative Light Strings (ver. 1.5)
- For Luminaires (including sub-components) and Lamps (ver. 1.2)
- For Compact Fluorescent Lamps (CFLs) (ver. 4.3)
- For Integral LED Lamps (ver. 1.4)

4 Heating, Ventilation, and AC Products
- for Residential Ceiling Fans (ver. 3.0)
- for Residential Ventilating Fans (ver. 3.2)

5 Other
- For Water Coolers (ver. 3.0)

D. A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

- Australia: ACMA (Australian Communication and Media Authority) – APEC Tel MRA -Phase I;
- Canada: (Industry Canada - IC) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China – Taiwan):
  - BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
  - NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
  - EMC Directive 2014/30/EC US-EU EMC & Telecom MRA CAB
  - Radio & Teleterminal Equipment (R&TTE) Directive 1995/5/EC US -EU EMC & Telecom MRA CAB

  Hong Kong Special Administrative Region: (Office of the Telecommunications Authority – OFTA) APEC Tel MRA -Phase I & Phase II
- Israel – US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications - Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Development Authority - IDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI - Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
  - ENERGY STAR Recognized Test Laboratory – US EPA
  - Telecommunications Certification Body (TCB) – US FCC;

Vietnam: APEC Tel MRA -Phase I;

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to FCC CFR47 §15.407 (h), RSS-247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

2.2 EUT Exercise Software

The test utility used was Putty.exe

2.3 Local Support Equipment

Manufacturer	Description	Model	Serial Number
Dell Inc.	Laptop	E6410	N/A
Fortinet	Controller	FortiWiFi 60D	FWF60D4Q16023633

2.4 Interface Ports and Cabling

Cable Description	Length (M)	From	To
RJ 45 (CAT 5)	< 3	Controller	POE
RJ 45 (CAT 5)	< 3	Laptop	Controller
RJ 45 (CAT 5)	< 3	AP	POE
Serial Cable	< 3	AP	Supporting Laptop

2.5 Power Supply and Line Filters

Manufacturer	Description	Model	Part Number
Microsemi	POE injector	9001GR	C15166582000009569

3 Summary of Test Results

The following result table represents the list of measurements required under the FCC CFR47 §15.407 (h), RSS-247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), RSS-247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

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

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not Required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not Required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

Table 3: Interference Threshold for Master and Client with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
EIRP≥ 200 milliwatt	-64 dBm
EIRP< 200 milliwatt and power spectral density < 10dBm/MHz	-62 dBm
EIRP< 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds ***See Note 1***.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. ***See Notes 1 and 2***.
U-NII Detection Bandwidth	Minimum 100% of the UNII 99% transmission power bandwidth. ***See Note 3***.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6: Long Pulse Radar Test Signal

Radar Type	Bursts	Chirp Width (MHz)	PRI (usec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

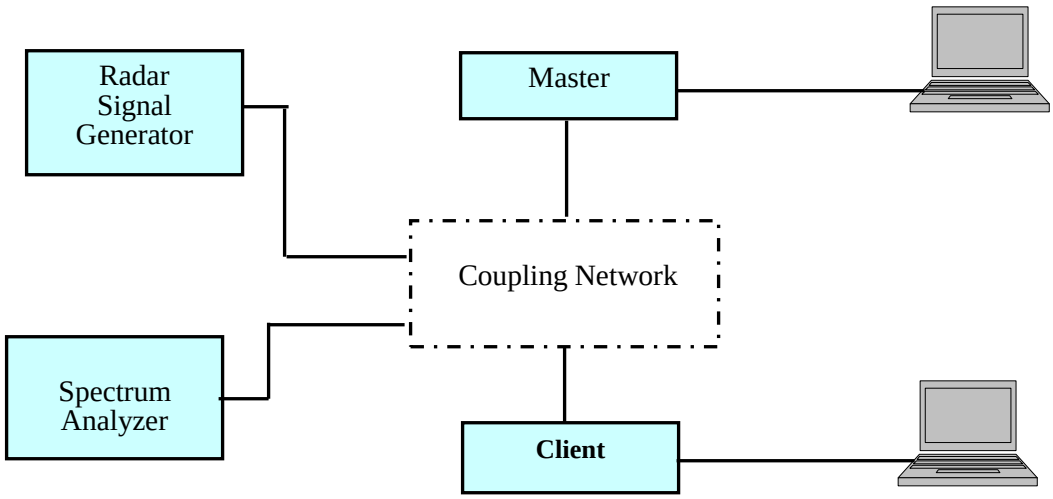
Table 7: Frequency Hopping Radar Test Signal

Radar Type	Pulse Width (usec)	PRI (usec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

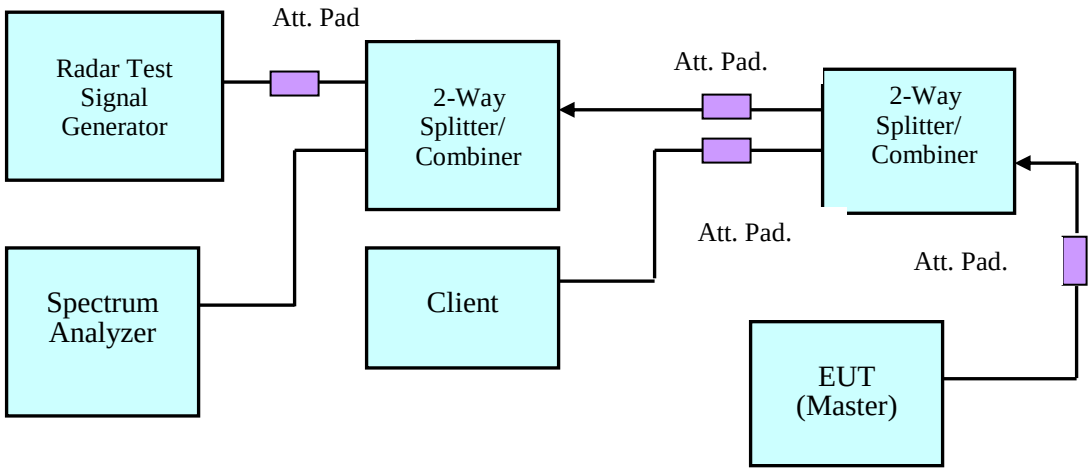
4.2 DFS Measurement System

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

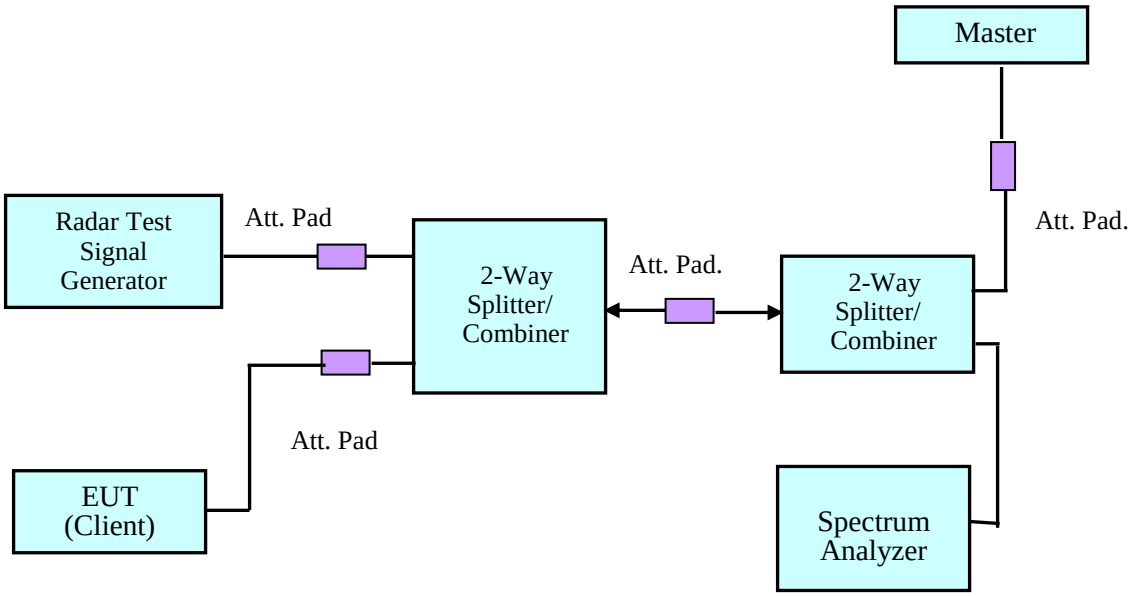
4.3 System Block Diagram



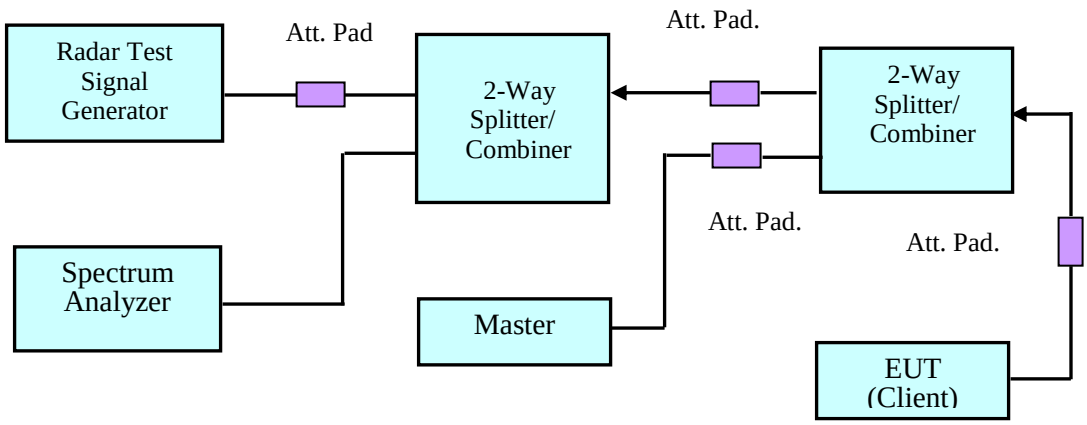
4.4 Conducted Method



Setup for Master with injection at the Master

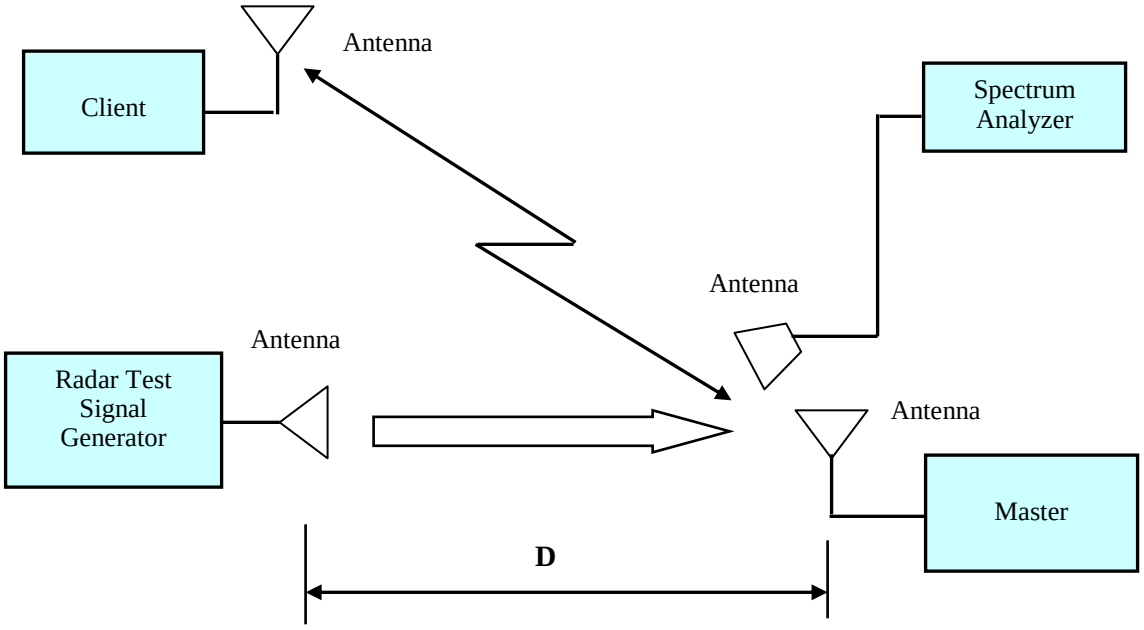


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

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

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

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

5.2 Antenna Description

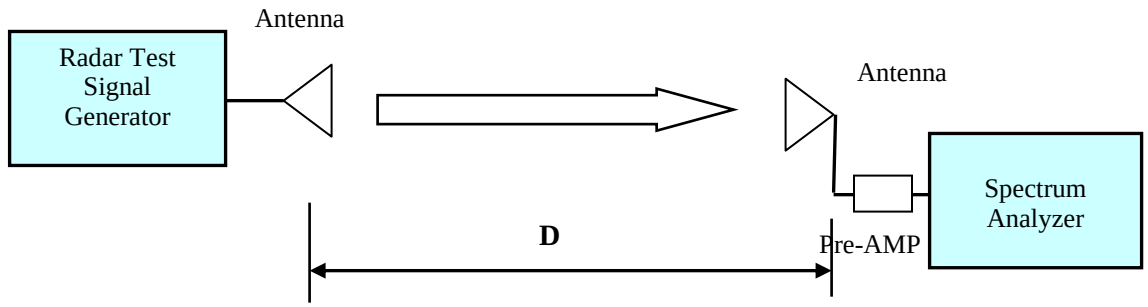
Antenna Type	Frequency (MHz)	Antenna Gain (dBi)
Dipole	5150-5850	5.35
PIFA (Ant.3)	5150-5850	5.64
PIFA (Ant.4)	5150-5850	5.83

5.3 Test Equipment List and Details

Manufacturer	Equipment Description	Model	S/N	Calibration Date	Calibration Interval
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A	N/A
ASCOR	Upconverter	AS-7206	N/A	N/A	N/A
Agilent	Analyzer, Spectrum	E4440A	US45303156	2017-02-24	1 year
A.R.A.	Antenna Horn	DRG-118/A	1132	2016-01-29	2 years
EMCO	Antenna Horn	3115	9511-4627	2015-10-17	2 years
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A	N/A
Midwest	Attenuator	290-30	N/A	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A	N/A

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

5.4 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

5.5 Test Environmental Conditions

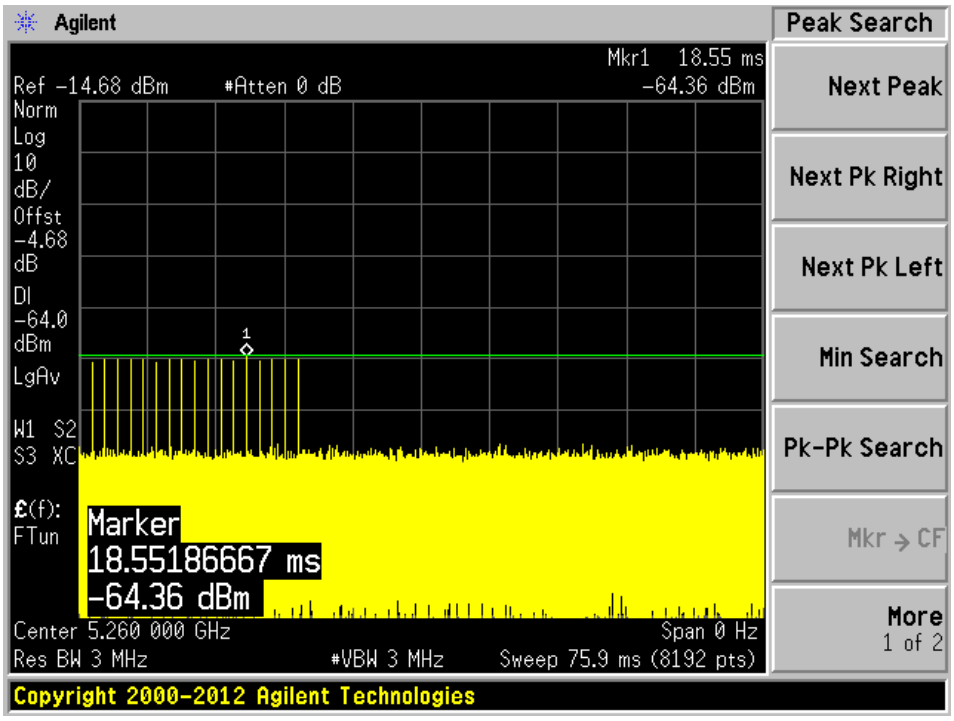
Temperature:	22-25° C
Relative Humidity:	45-48 %
ATM Pressure:	102.1 kPa

Testing was performed by Jose Martinez and Vincent Licata on 2017-09-08 at the DFS site.

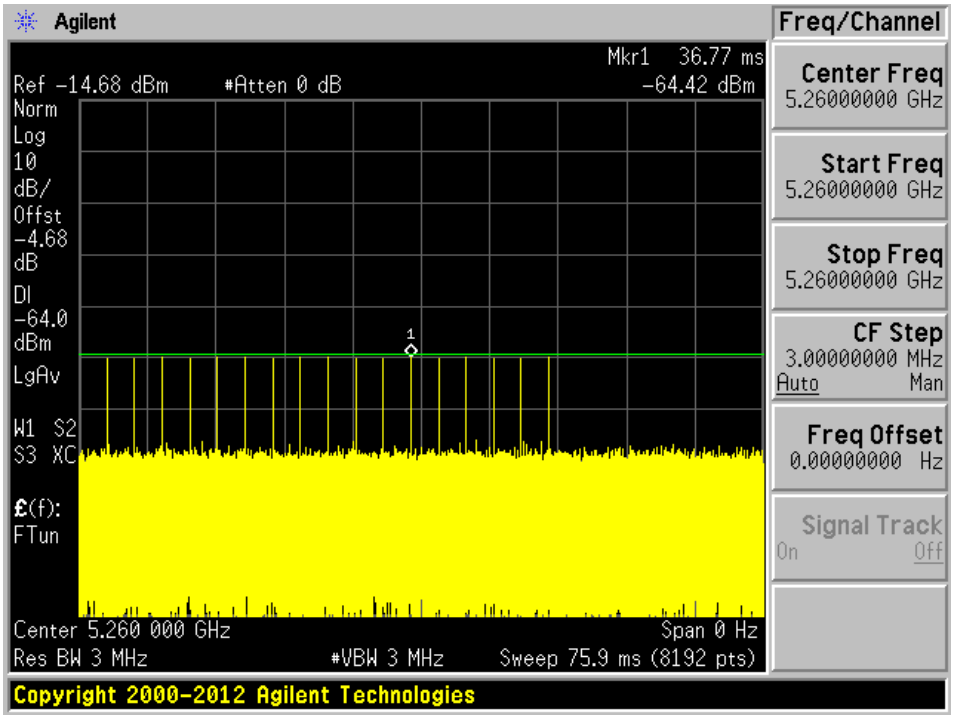
Plots of Radar Waveforms

5260 MHz

Radar Type 0



Radar Type 1A



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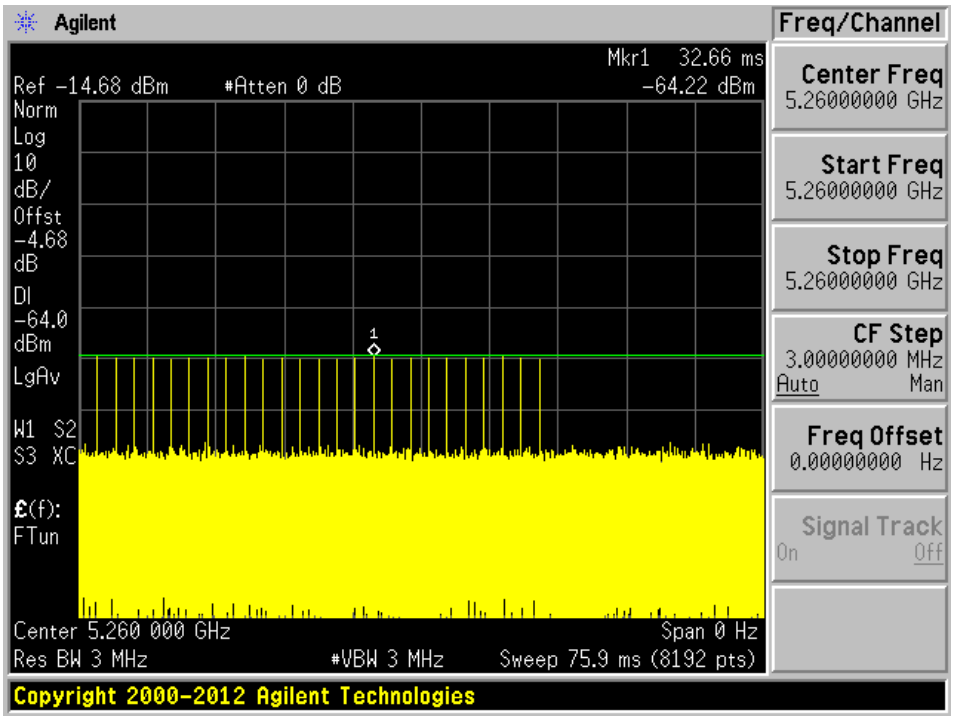
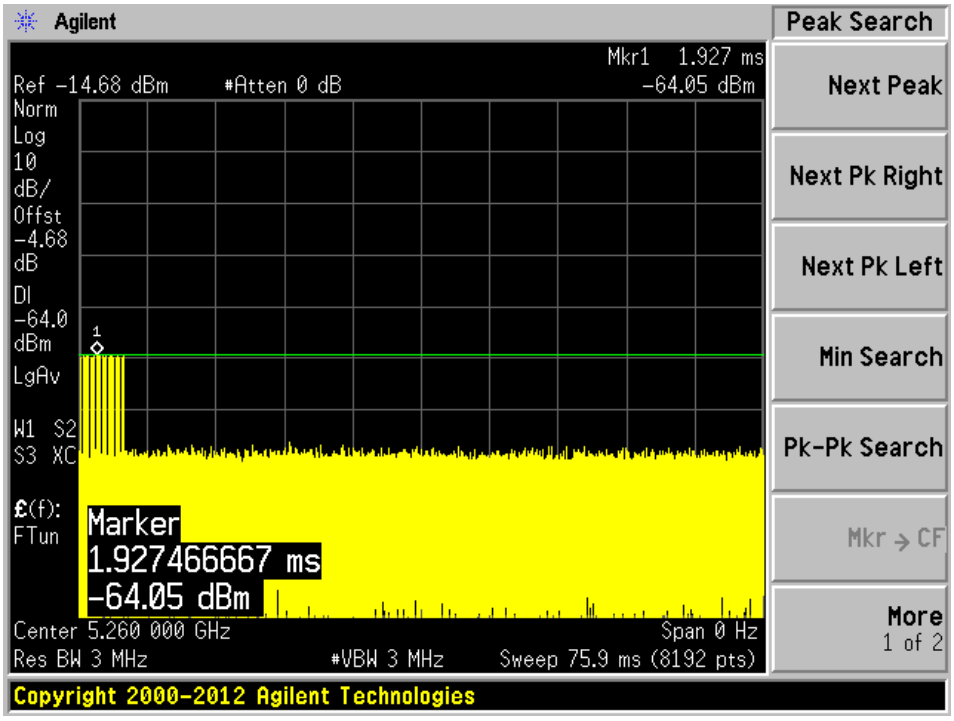
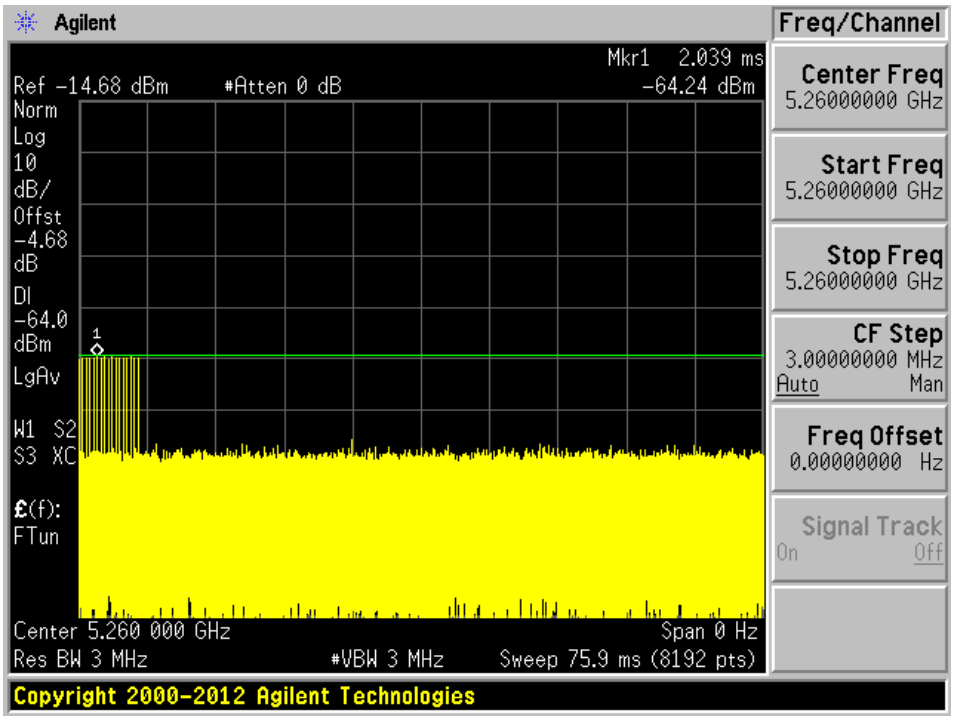


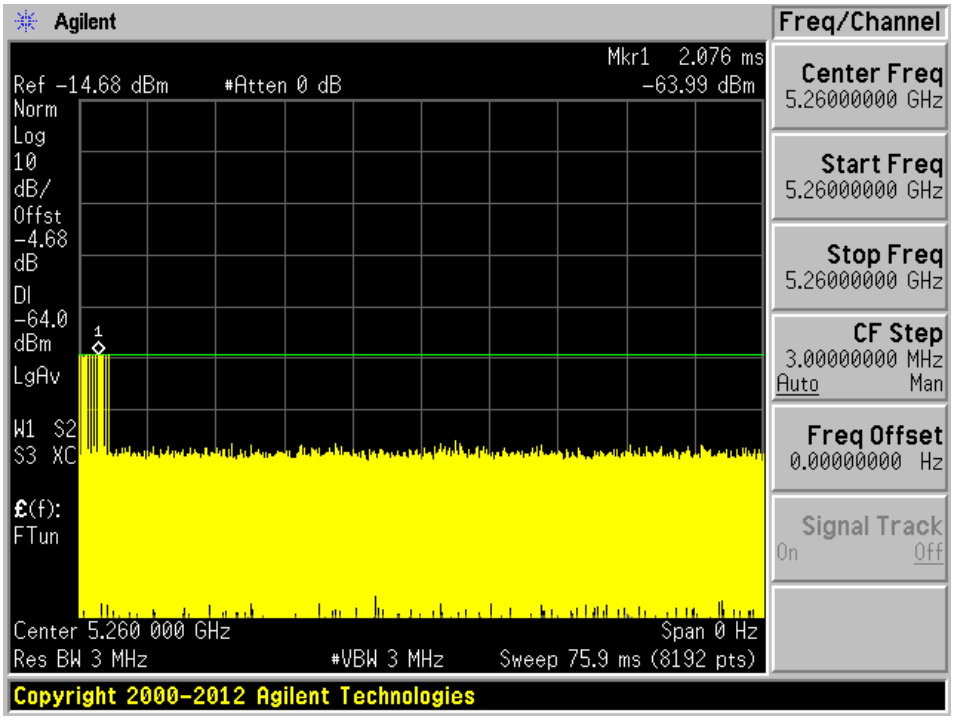
Radar Type 2



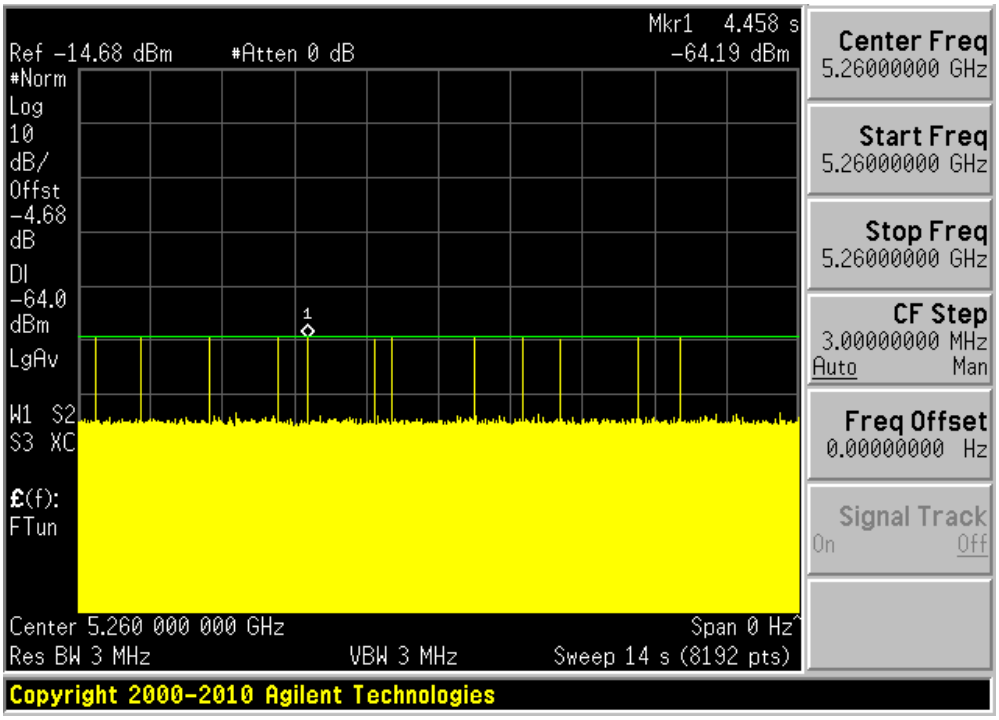
Radar Type 3



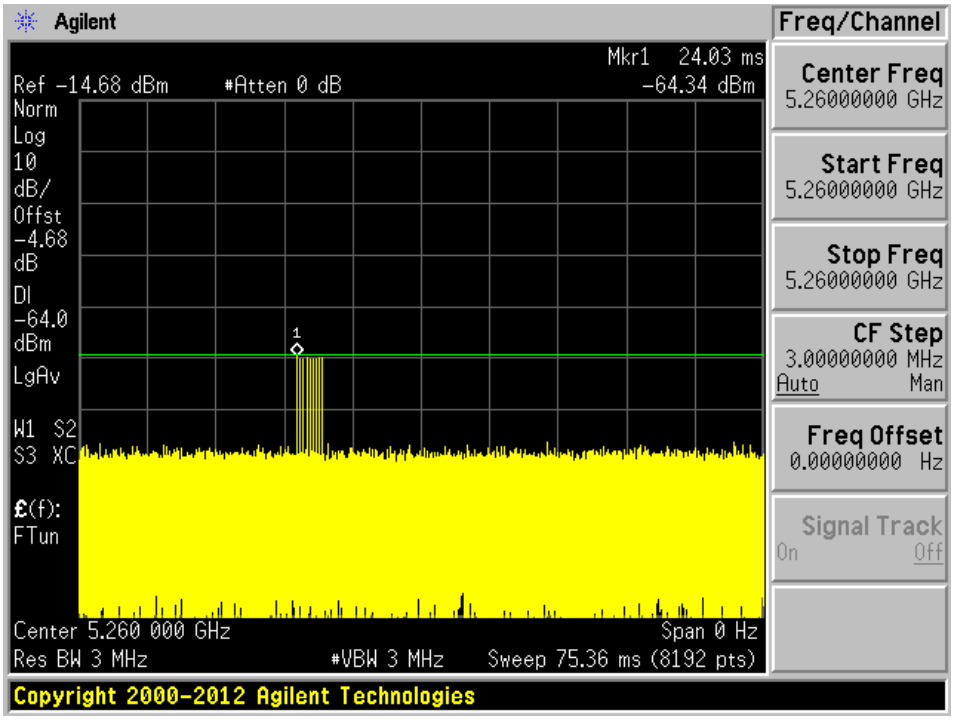
Radar Type 4



Radar Type 5

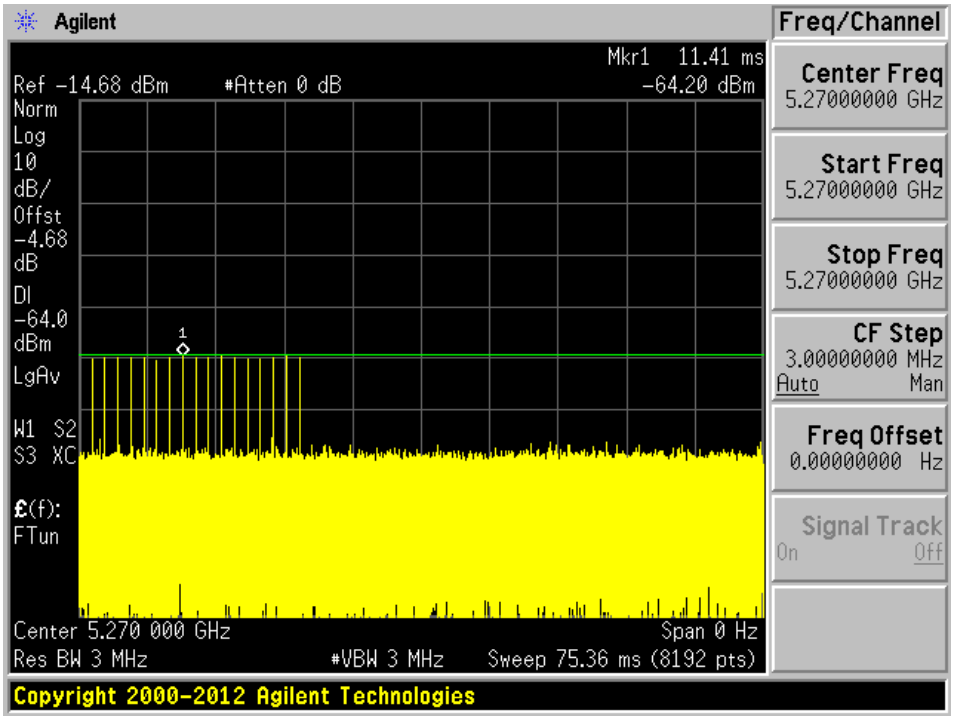


Radar Type 6

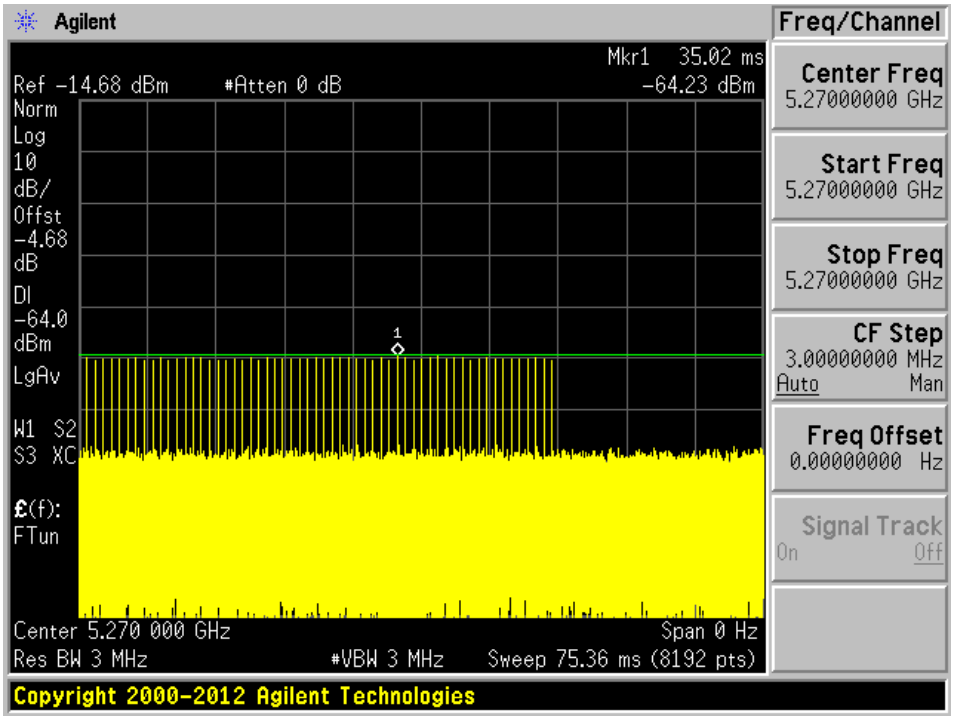


5270 MHz

Radar Type 0



Radar Type 1A



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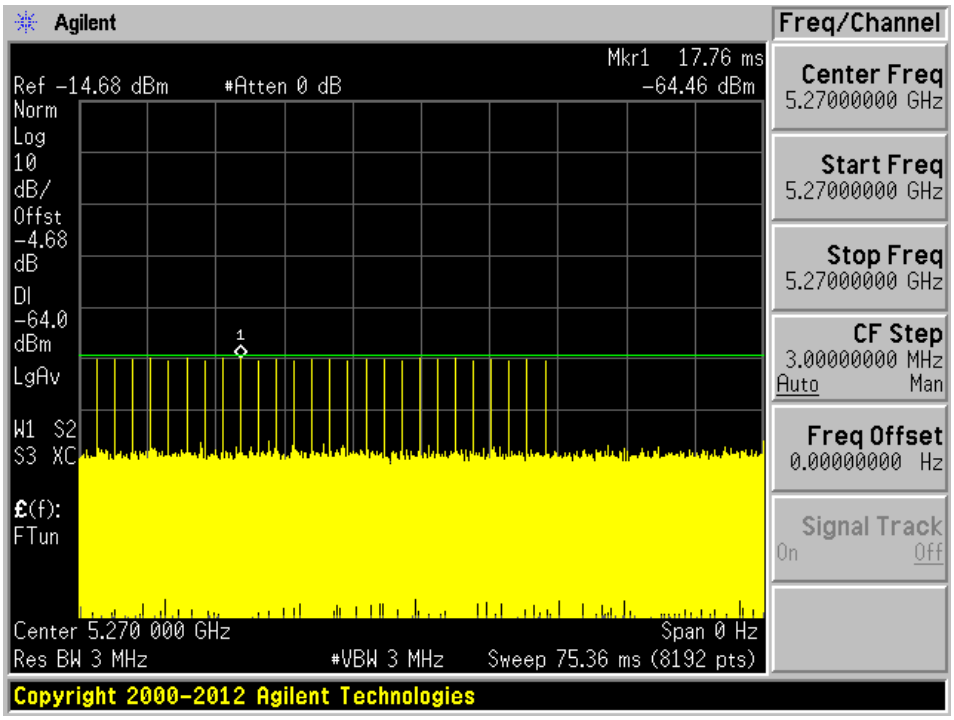

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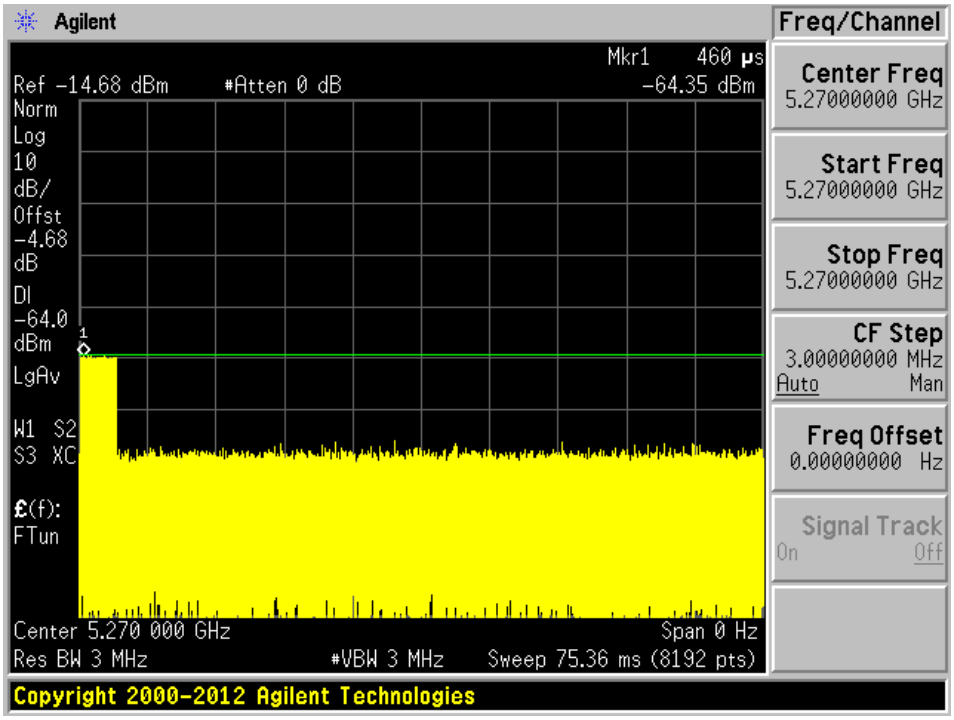

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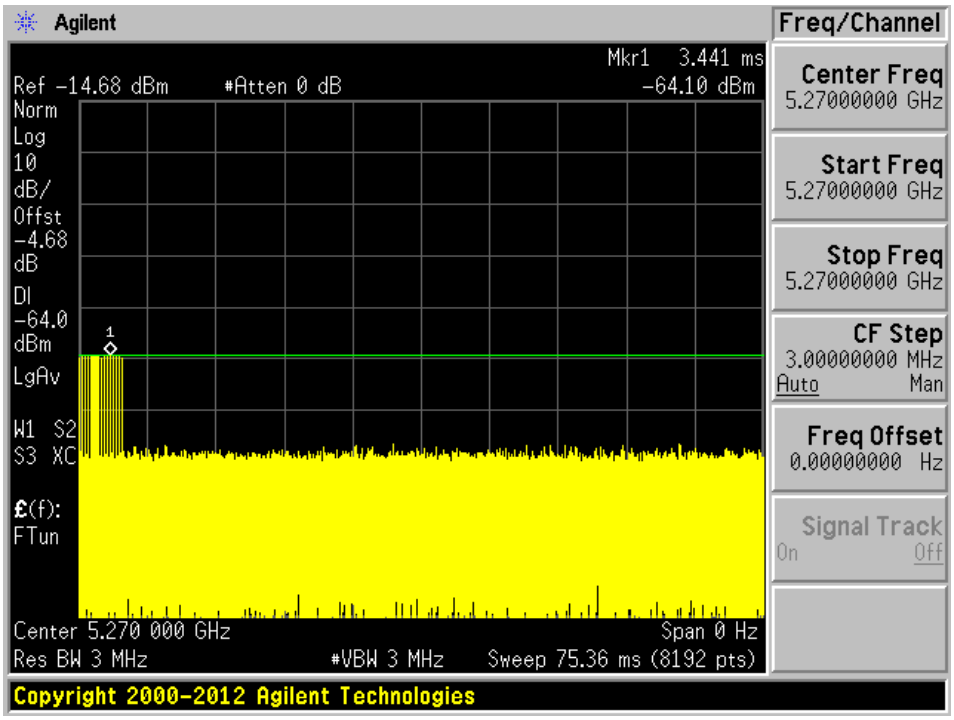

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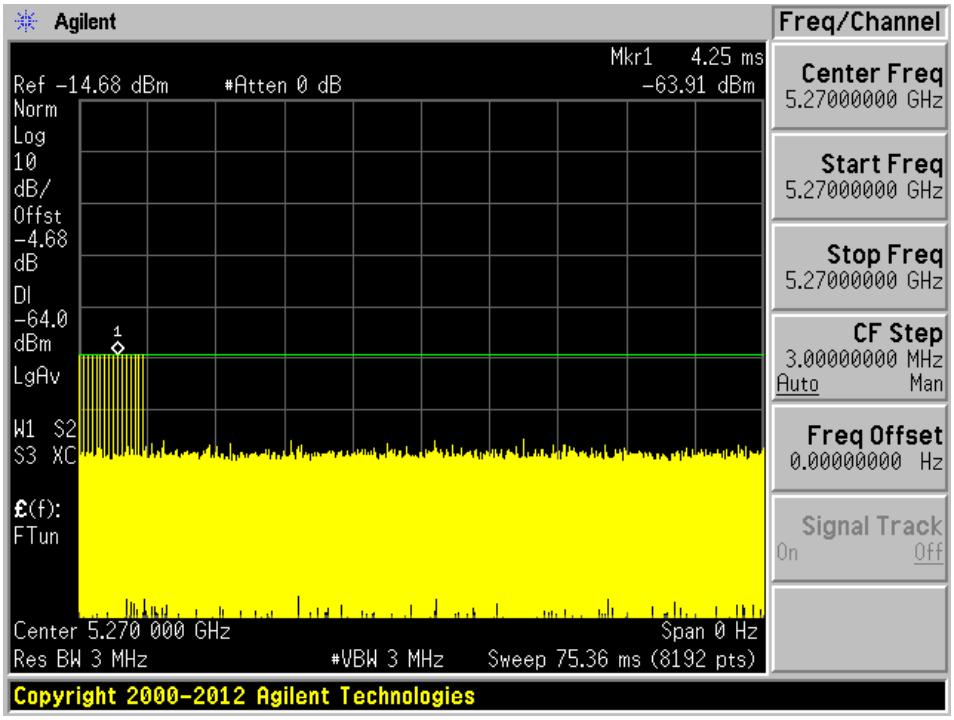
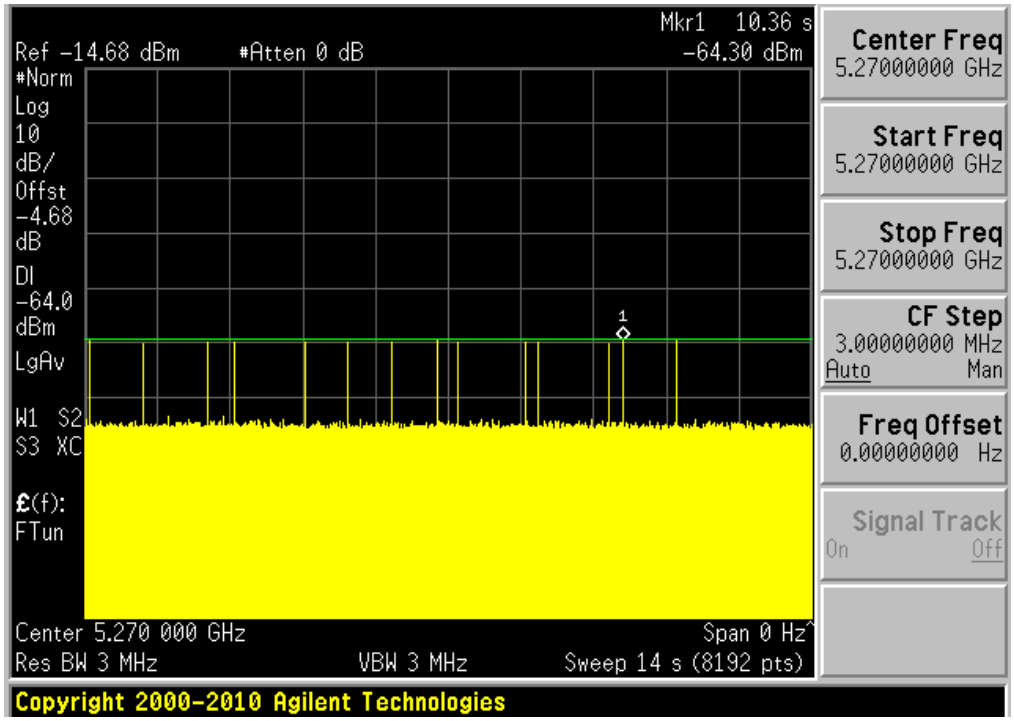
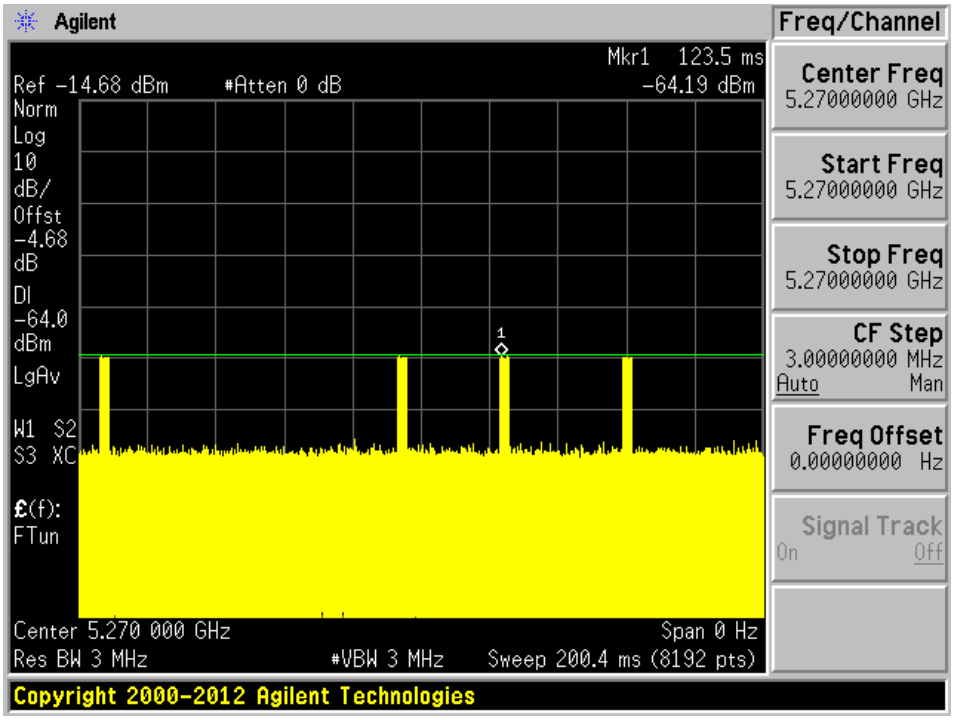


Radar Type 5

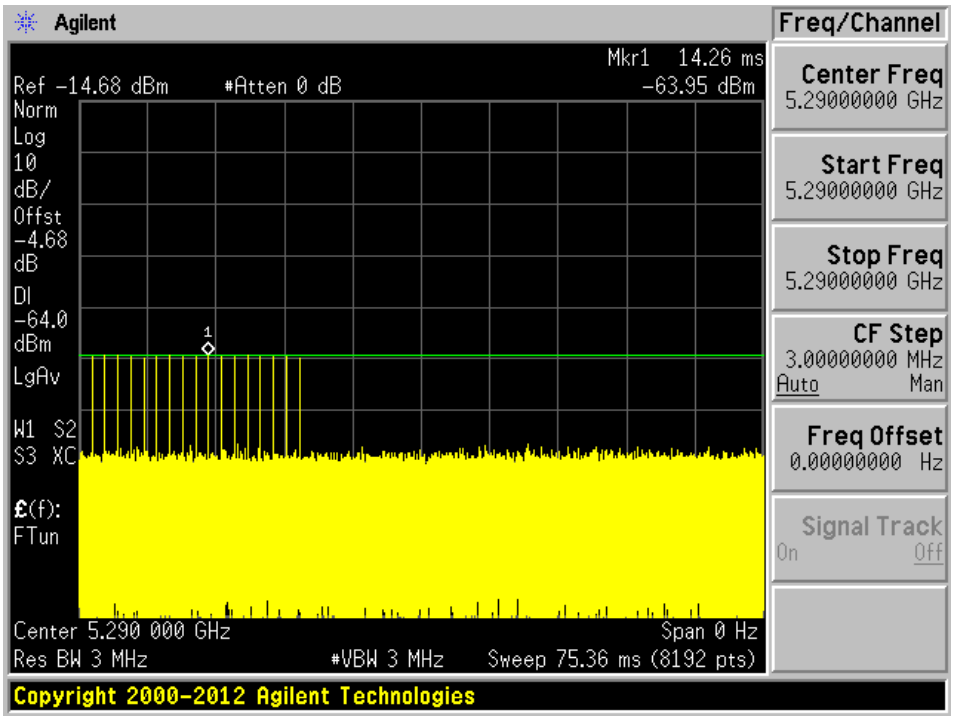


Radar Type 6

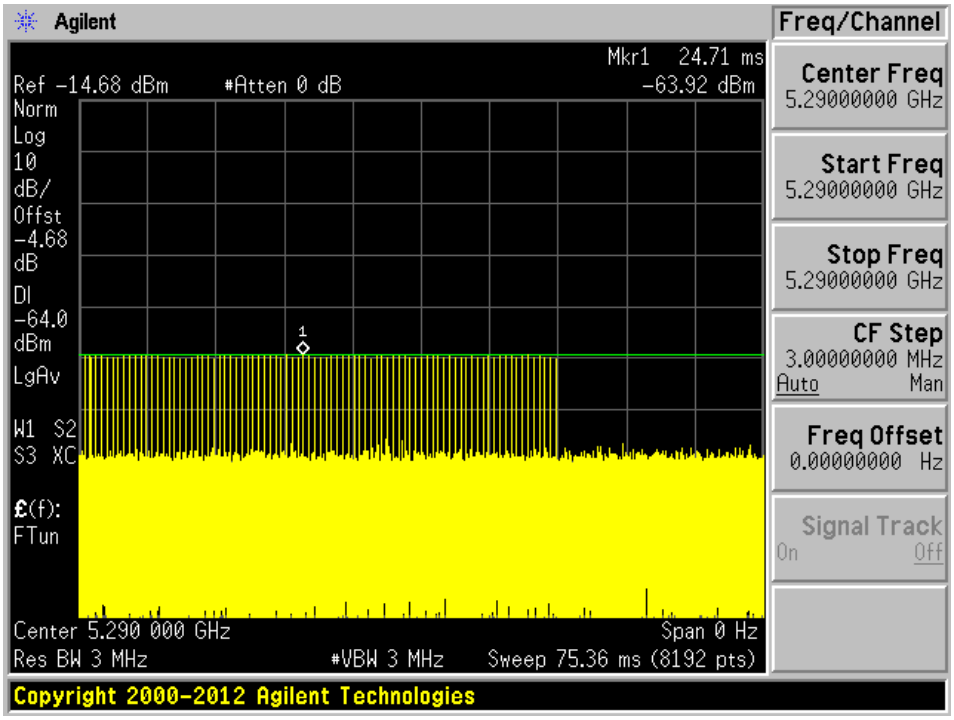


5290 MHz

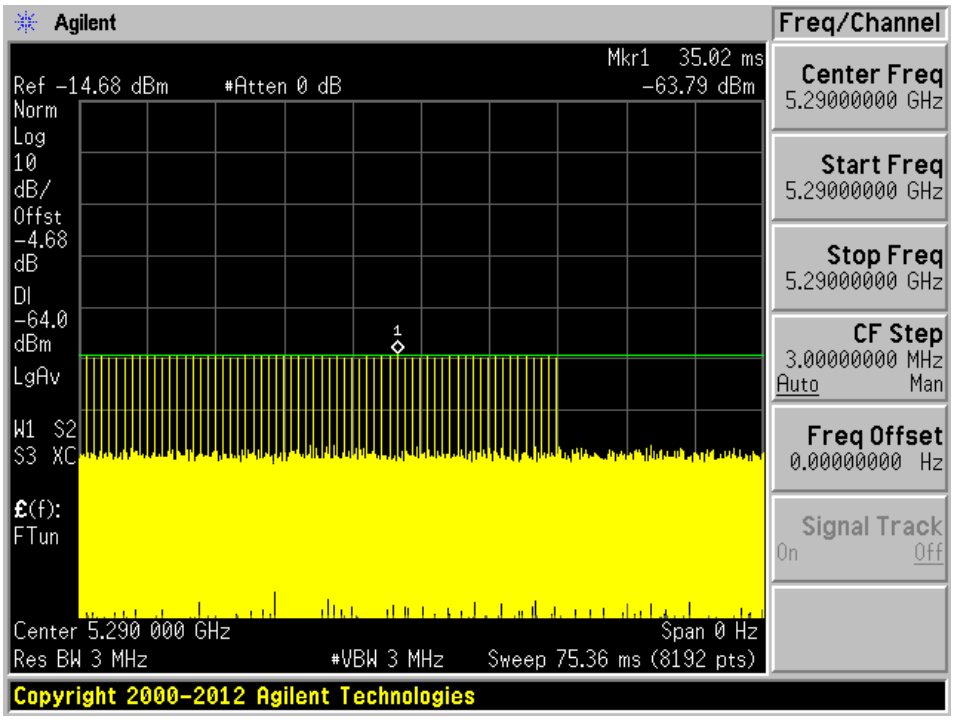
Radar Type 0



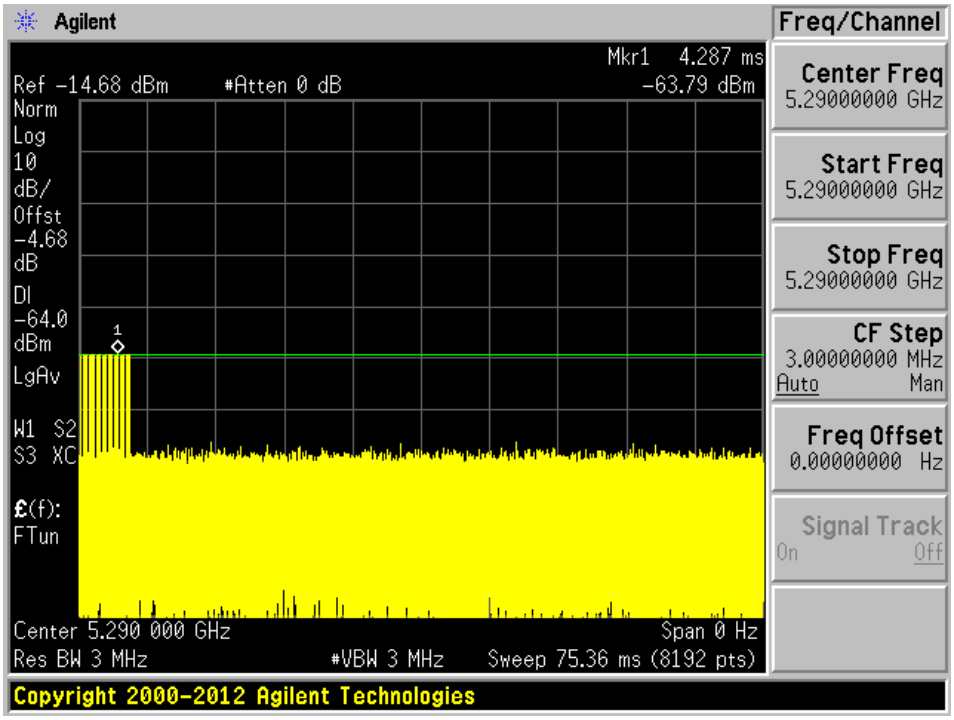
Radar Type 1A



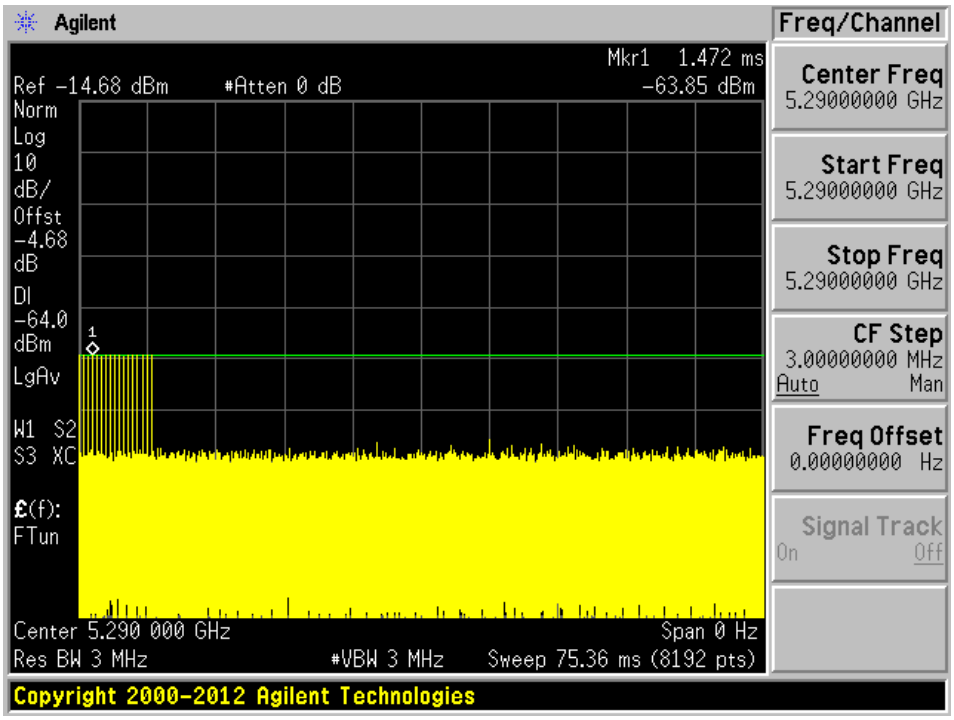
Radar Type 1B



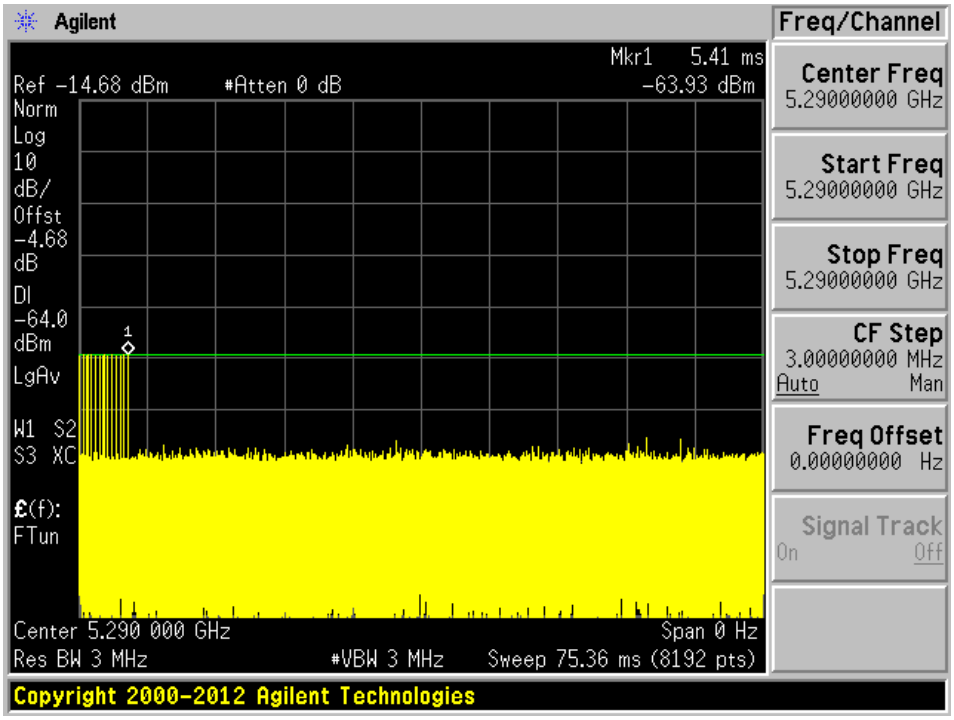
Radar Type 2



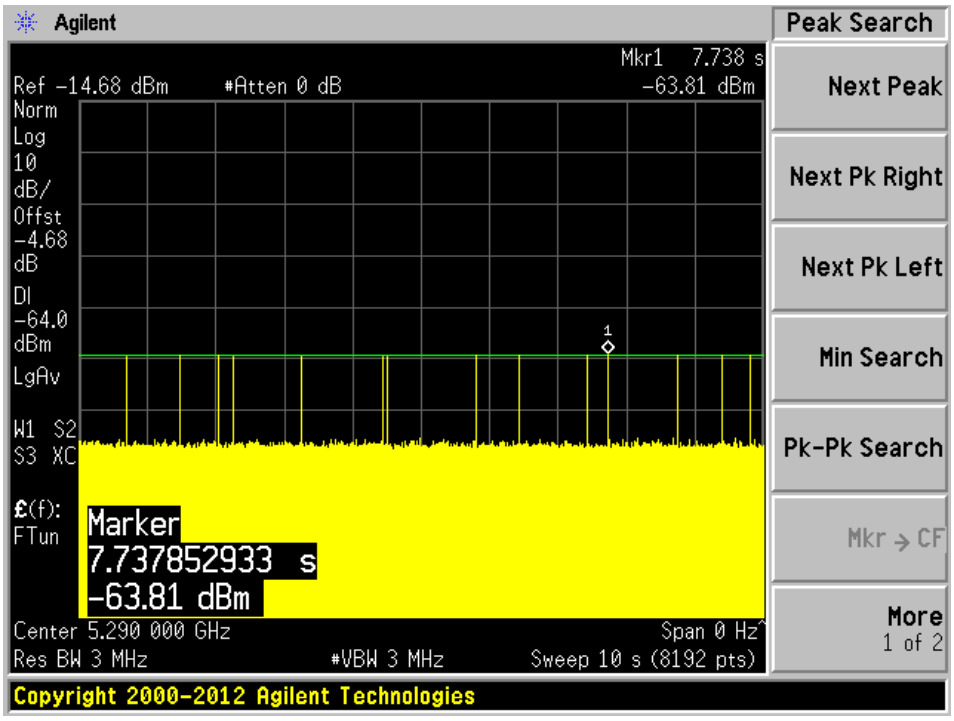
Radar Type 3



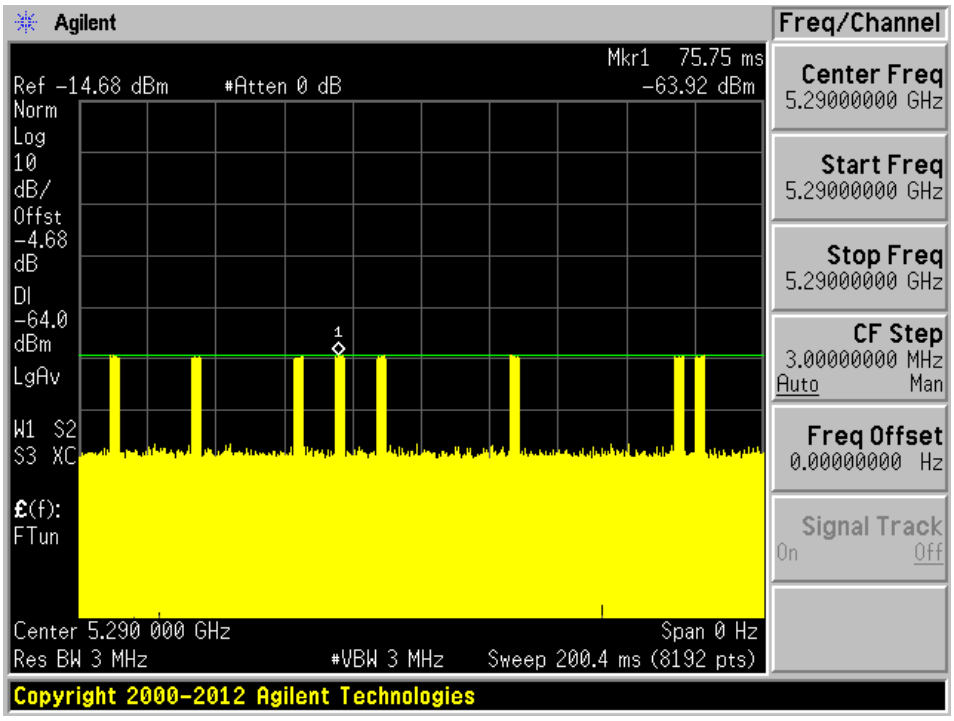
Radar Type 4



Radar Type 5

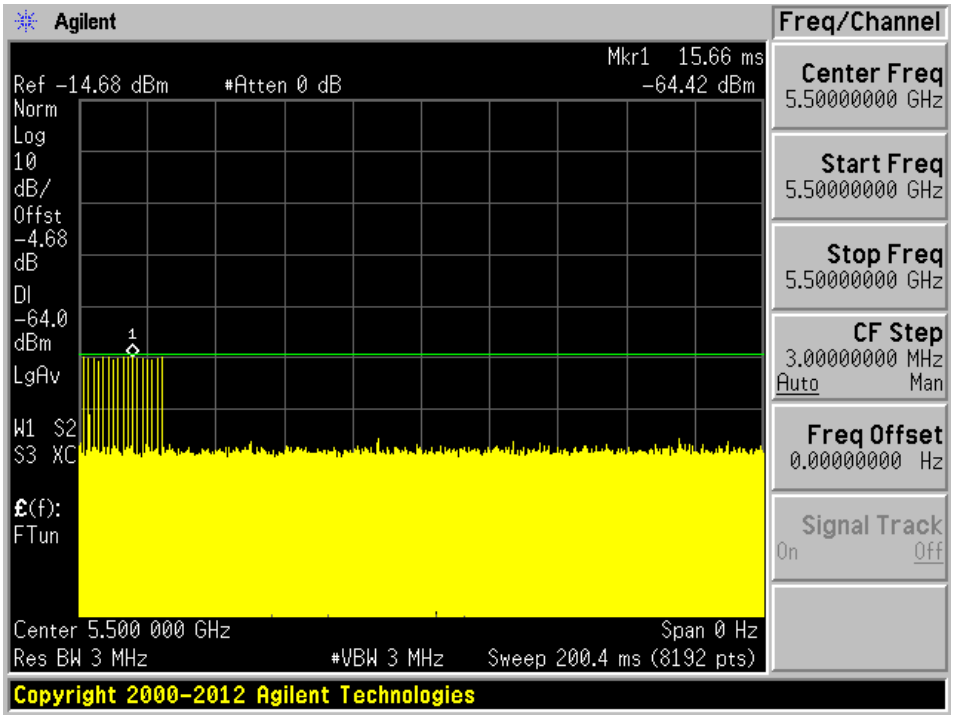


Radar Type 6

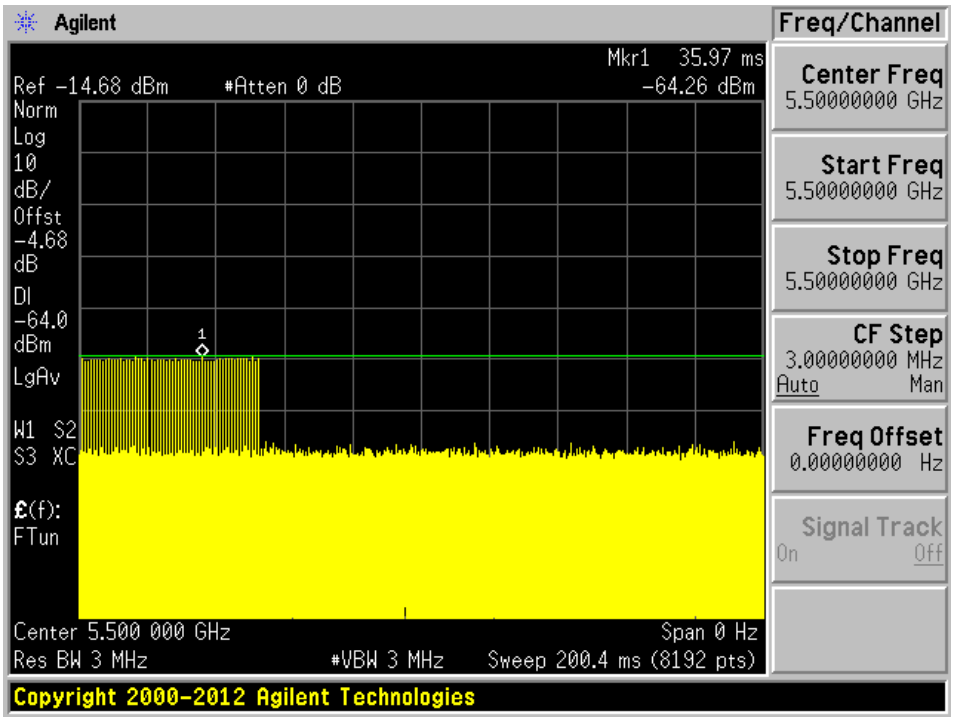


5500 MHz

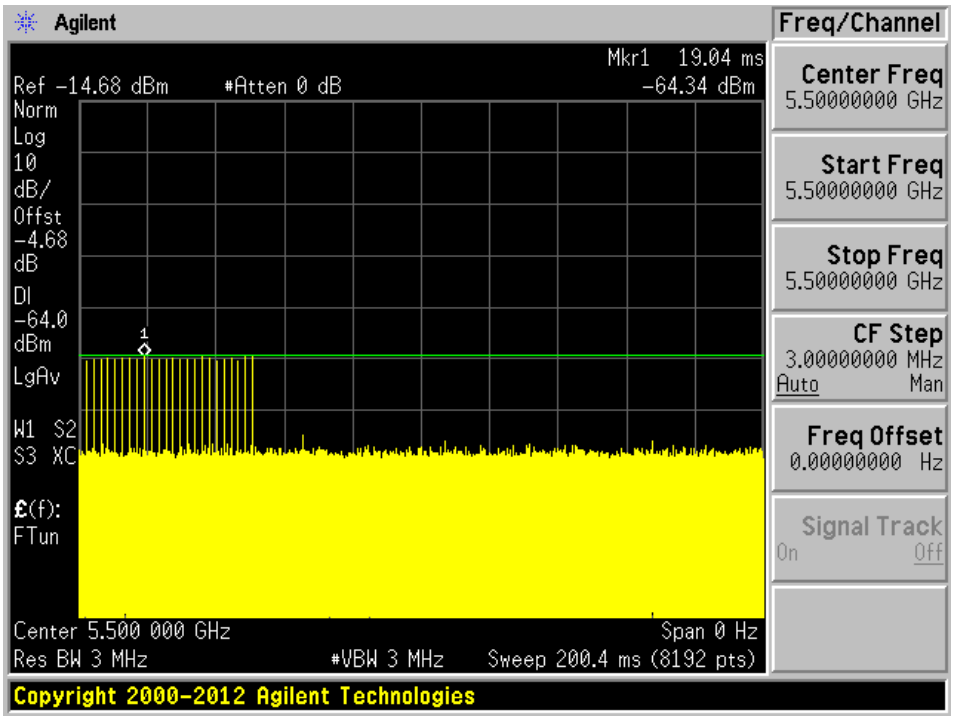
Radar Type 0



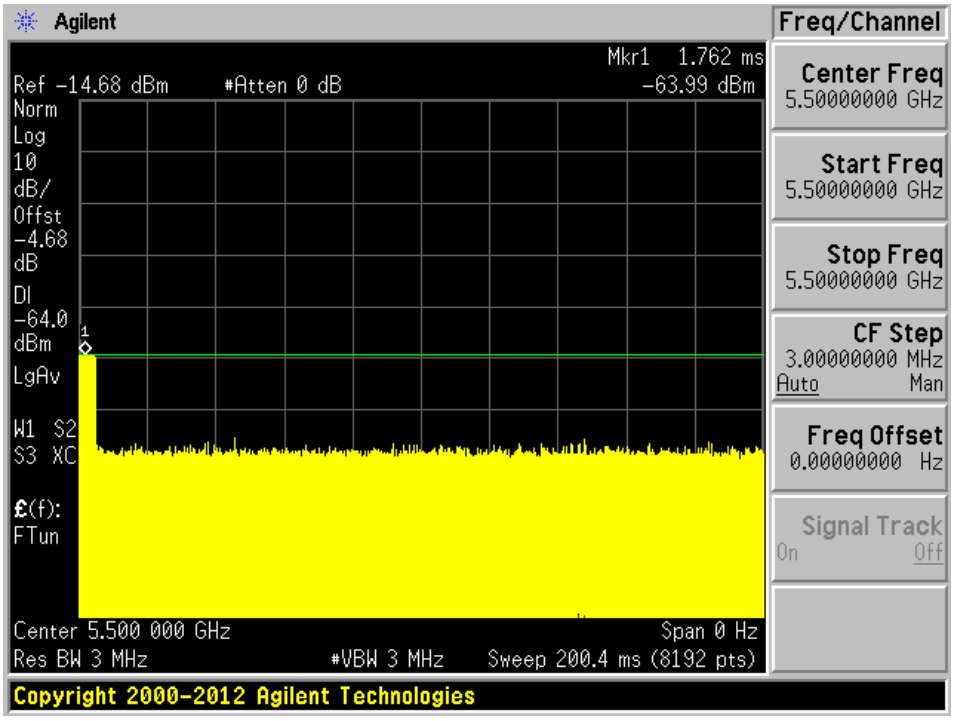
Radar Type 1A



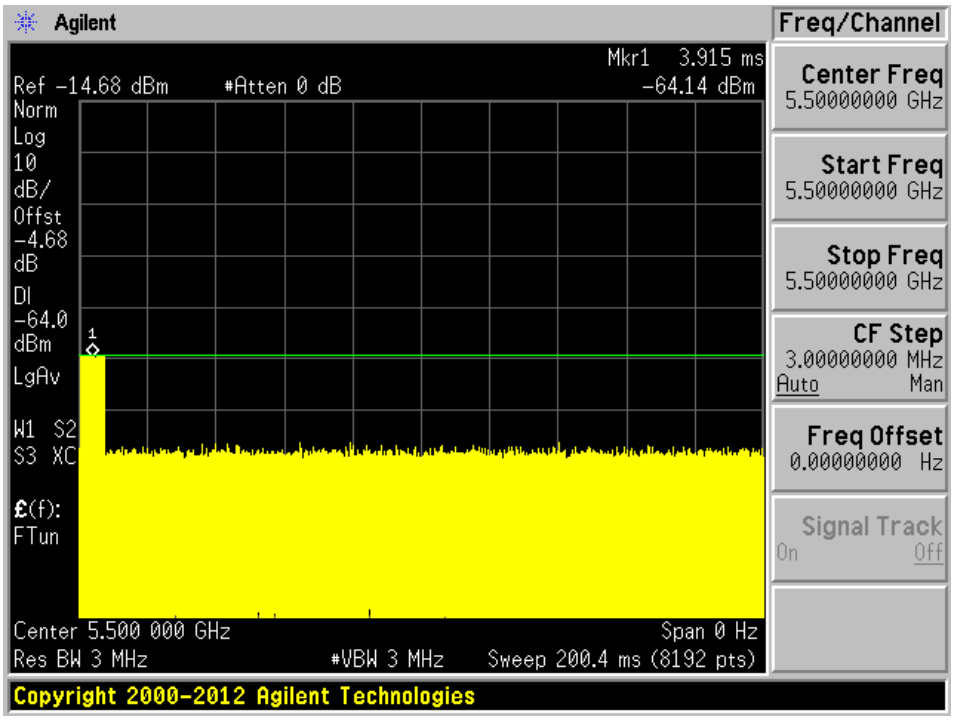
Radar Type 1B



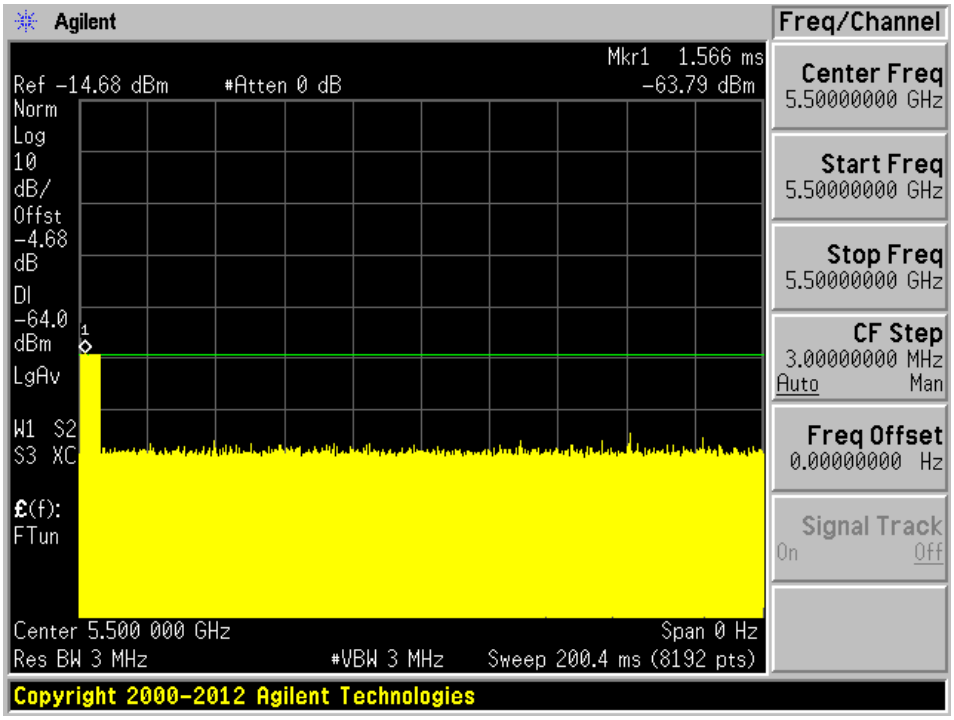
Radar Type 2



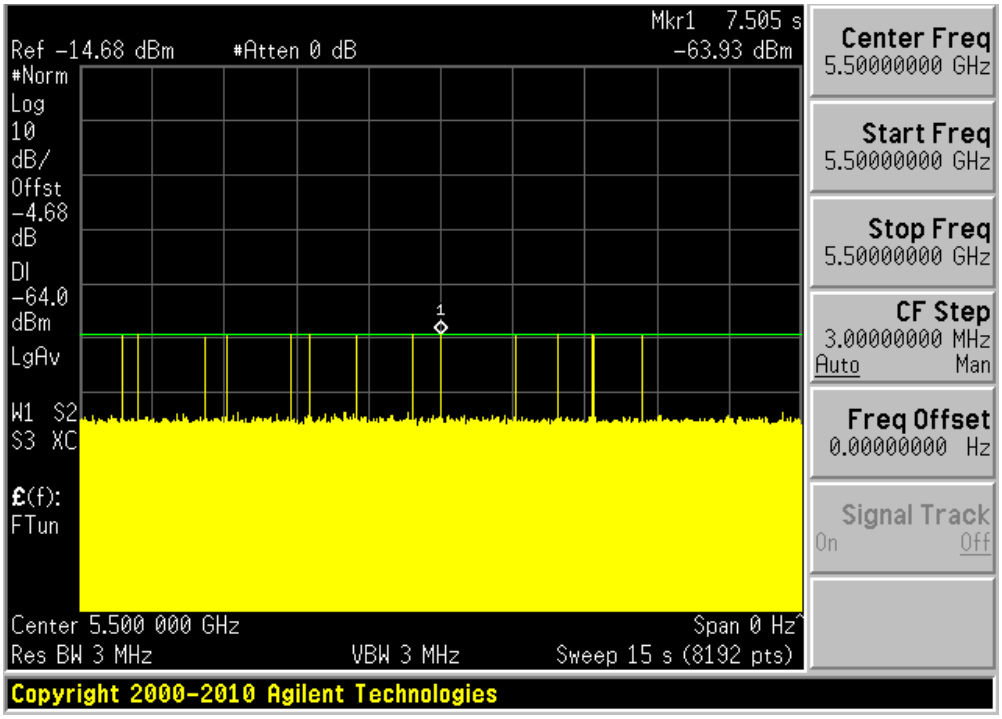
Radar Type 3



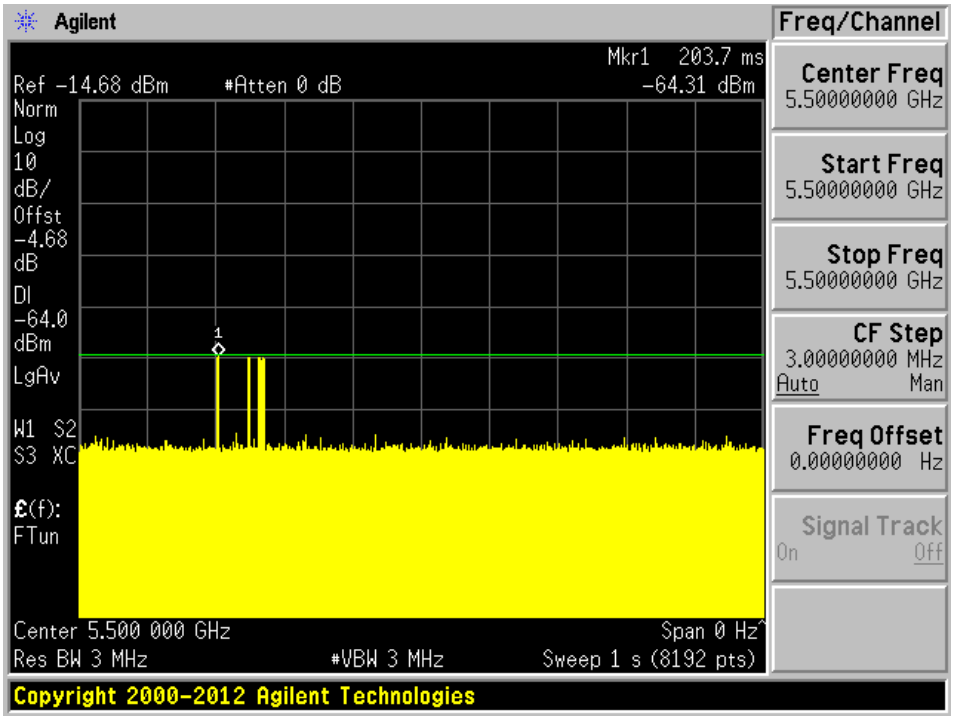
Radar Type 4



Radar Type 5

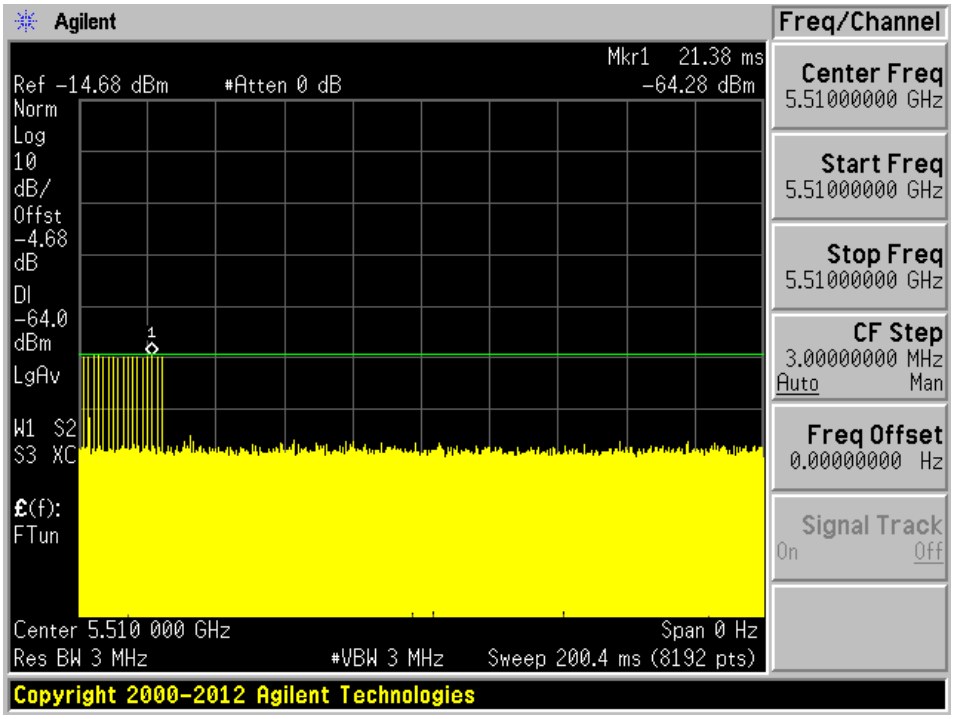


Radar Type 6

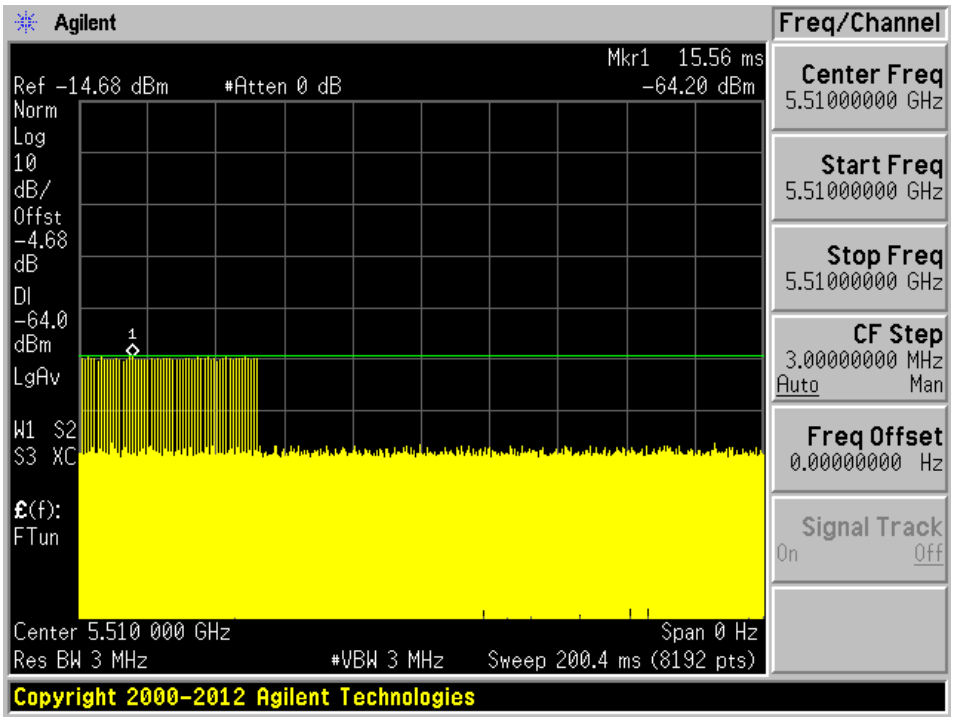


5510 MHz

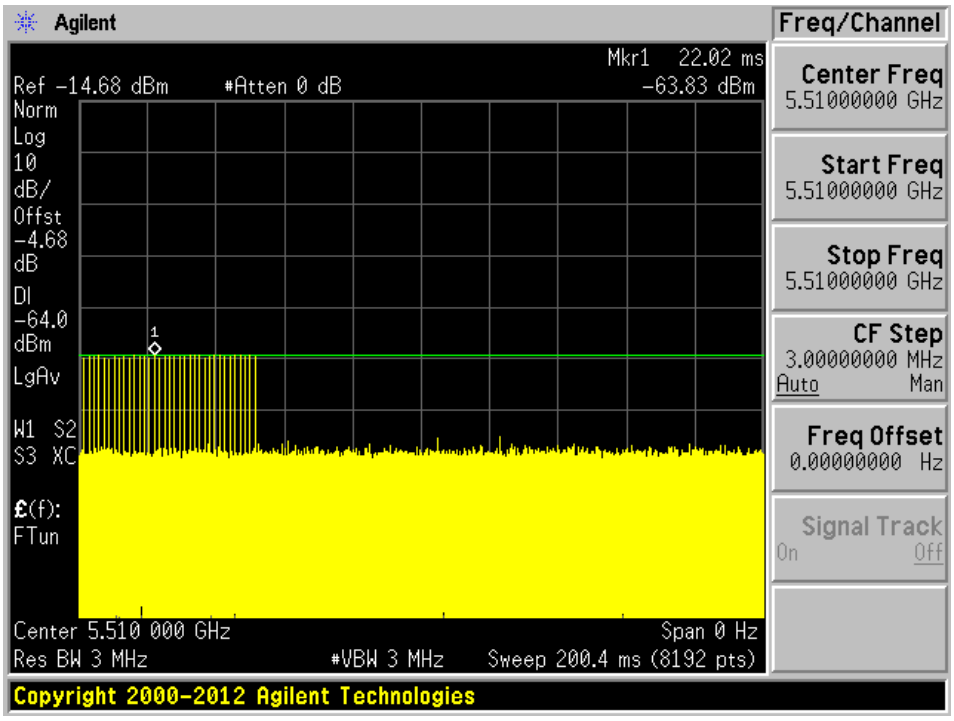
Radar Type 0



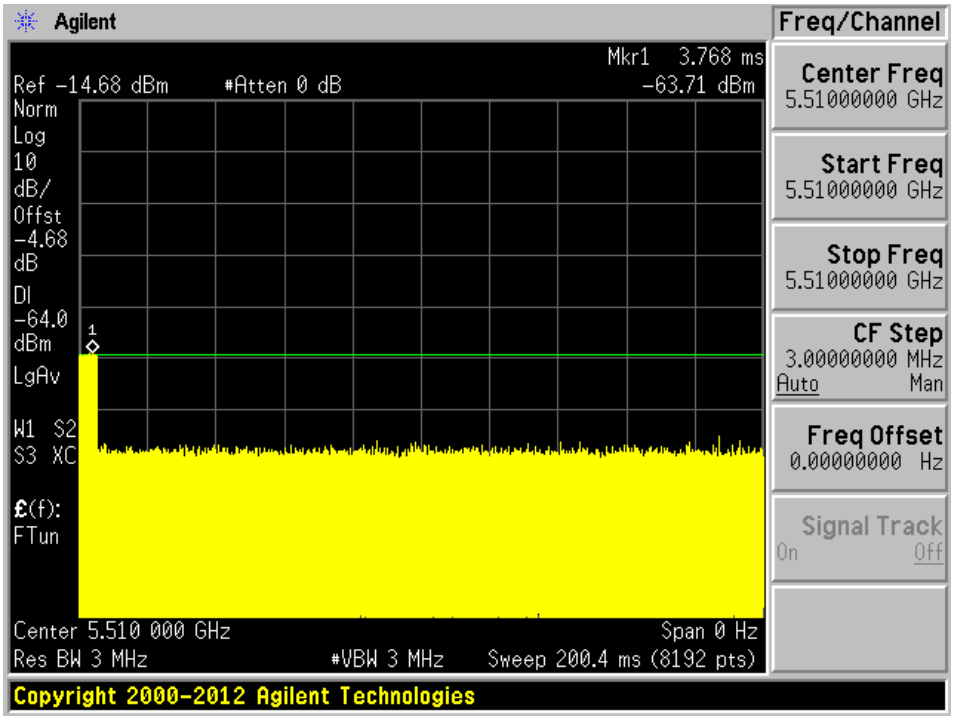
Radar Type 1A



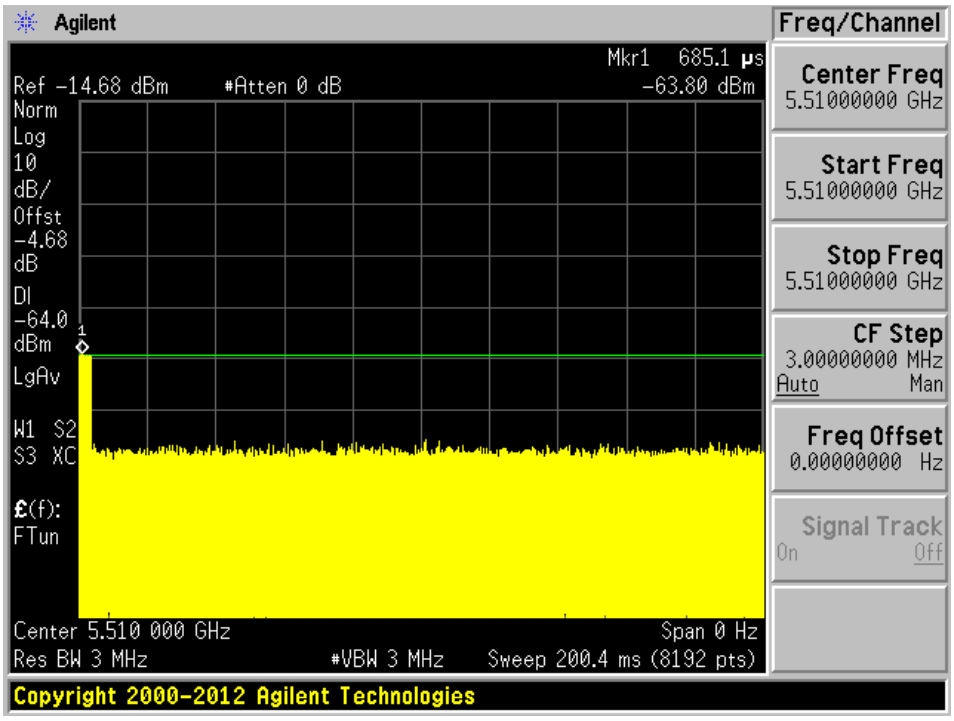
Radar Type 1B



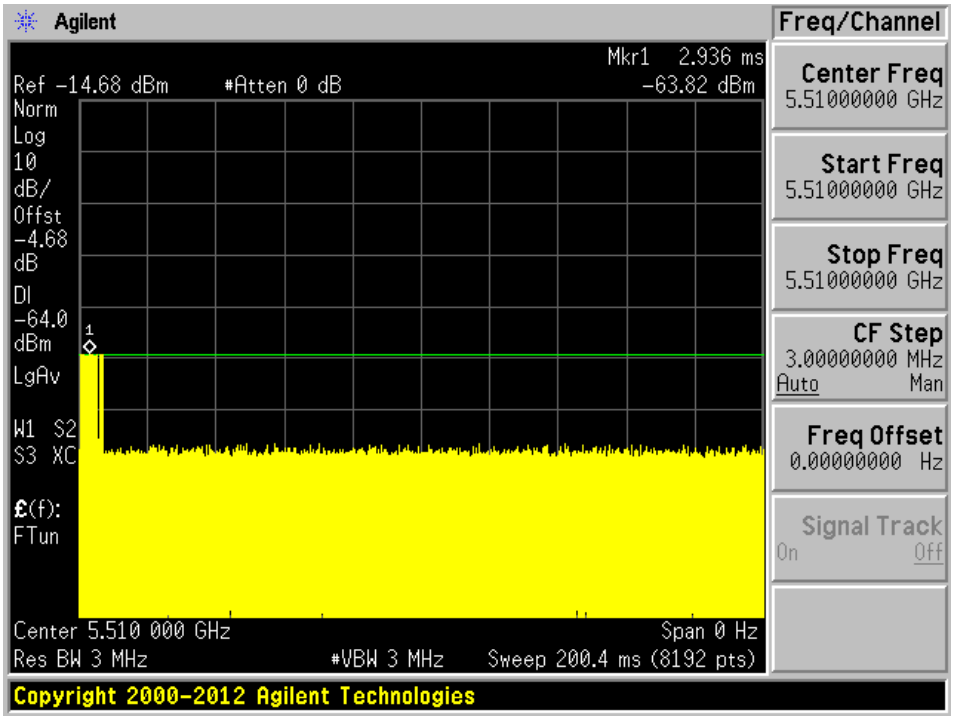
Radar Type 2



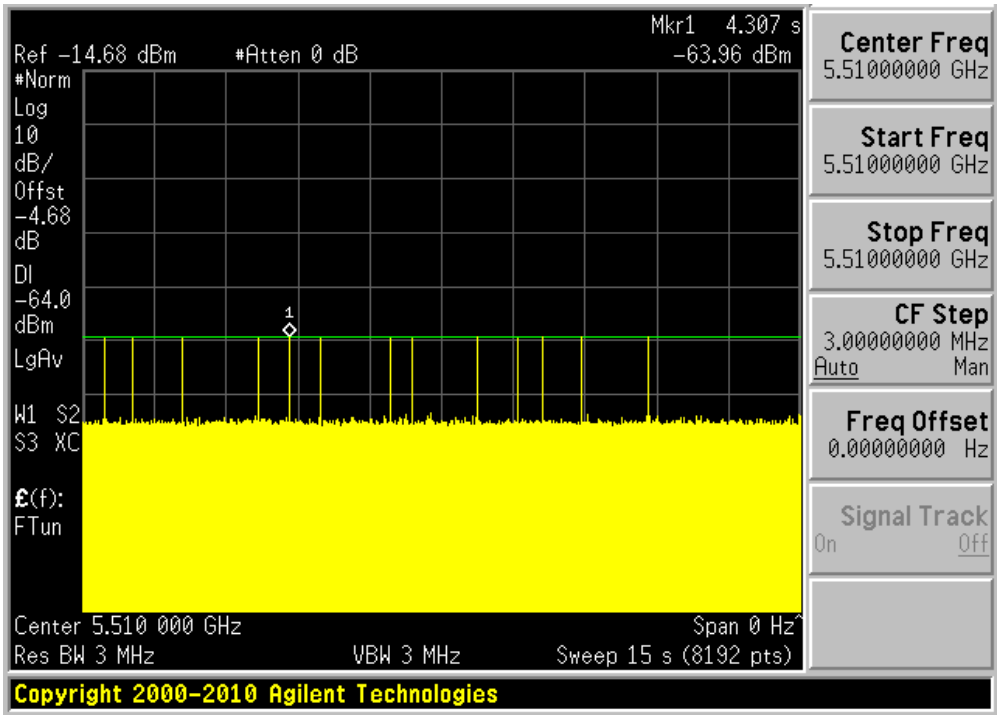
Radar Type 3



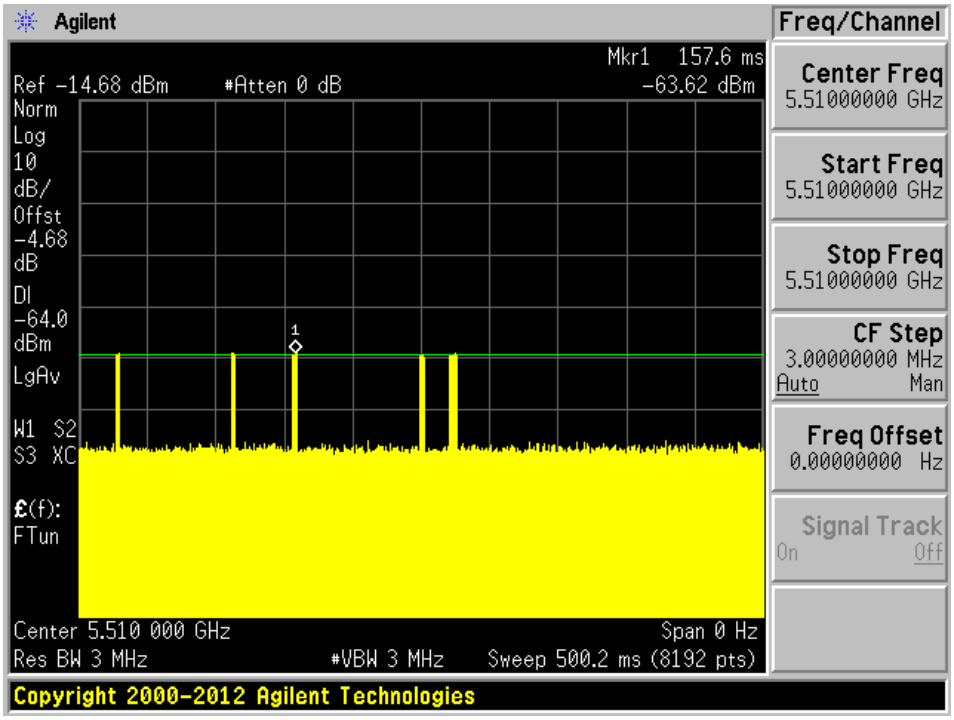
Radar Type 4



Radar Type 5

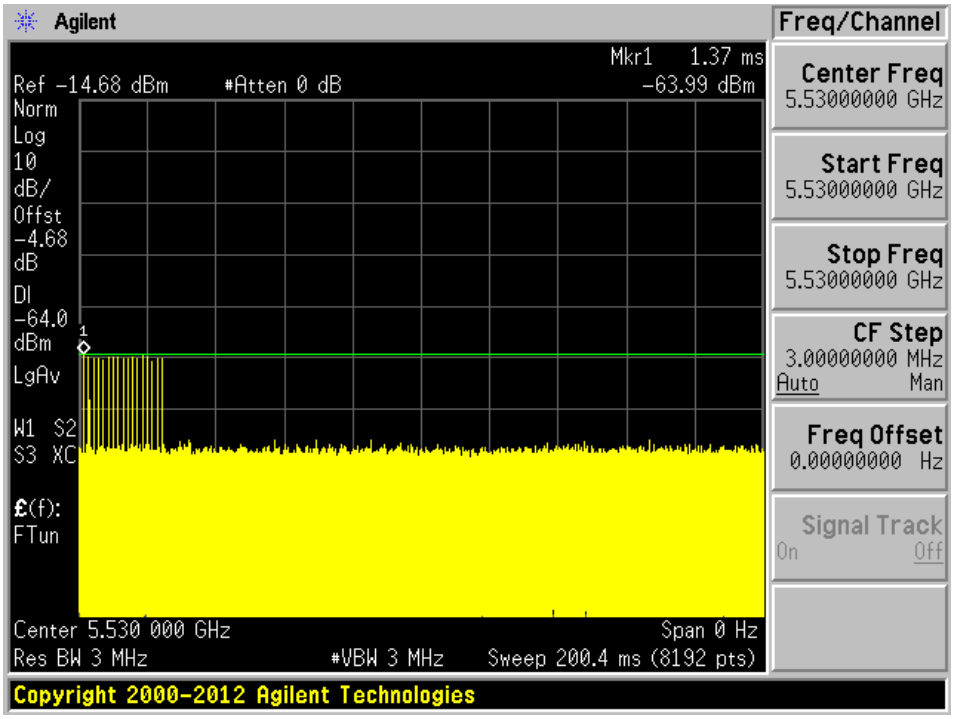


Radar Type 6

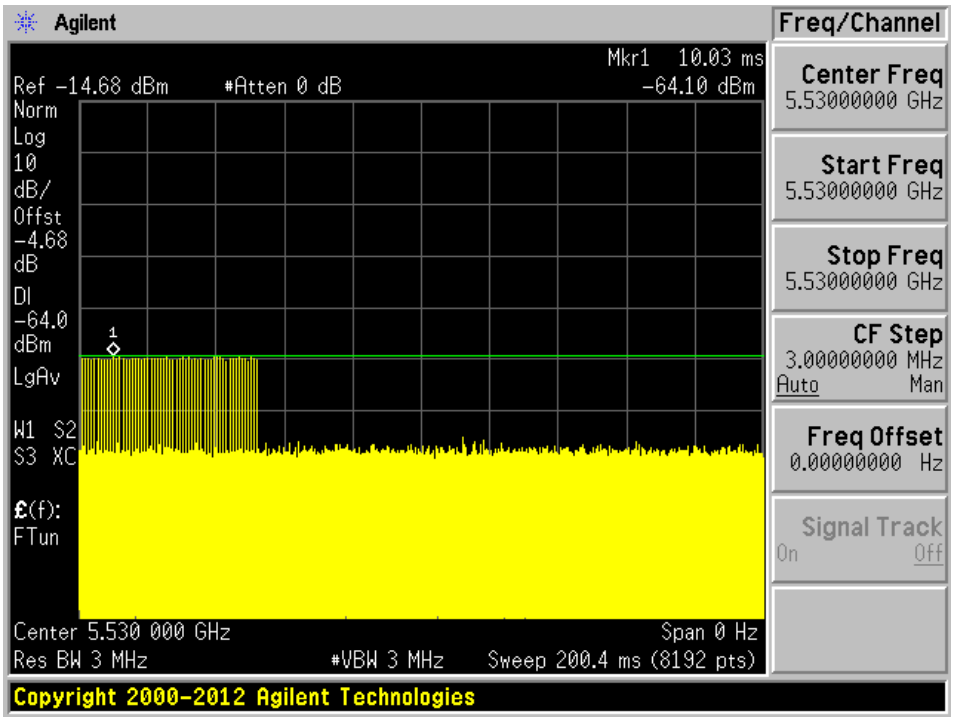


5530 MHz

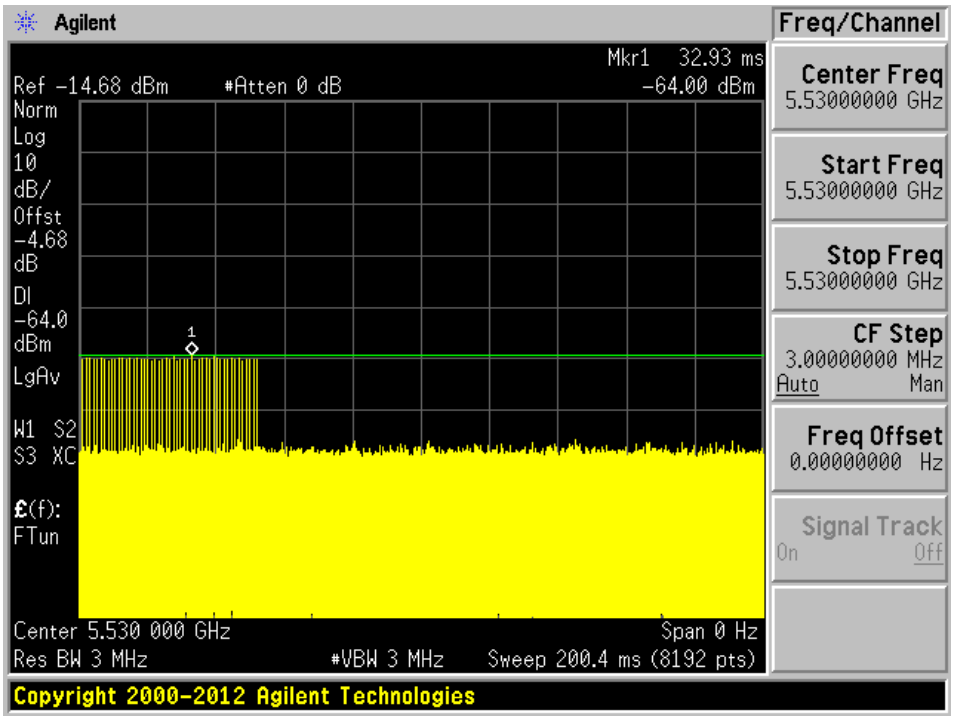
Radar Type 0



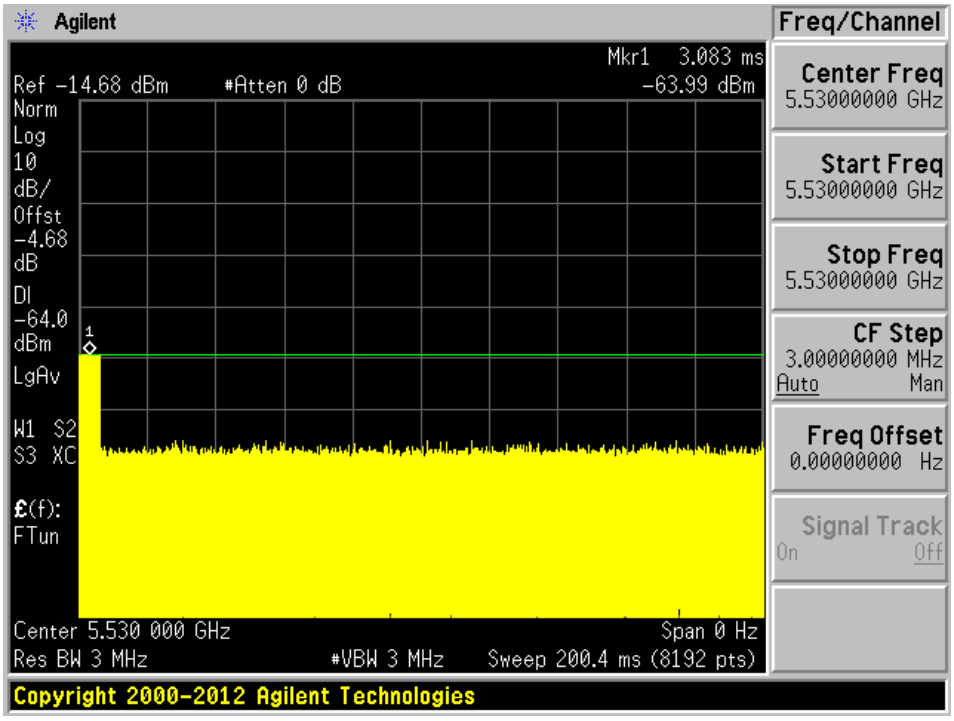
Radar Type 1A



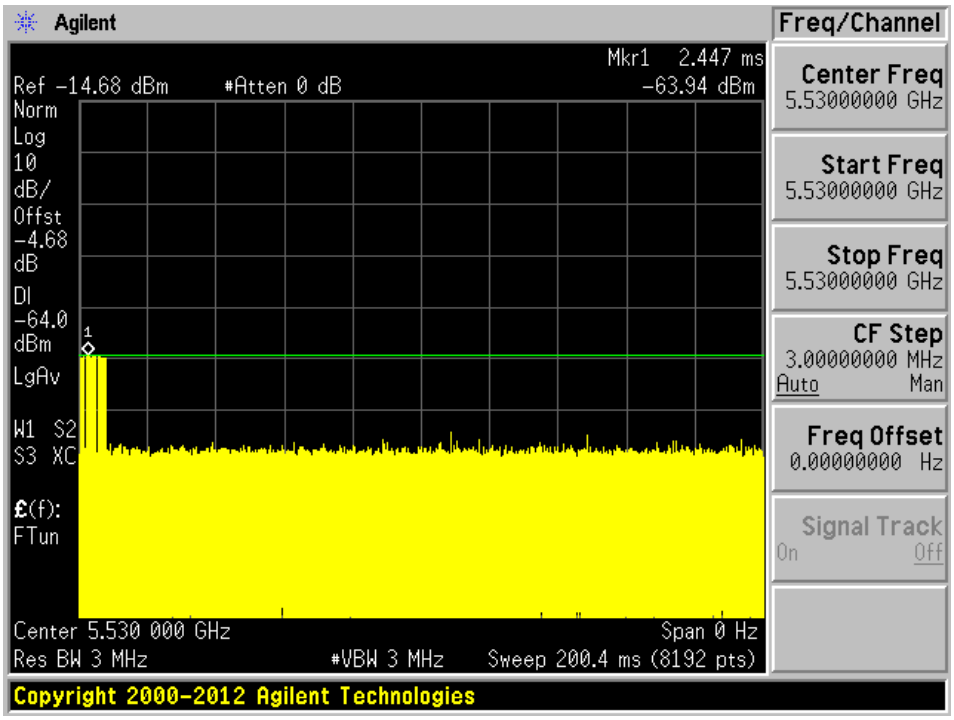
Radar Type 1B



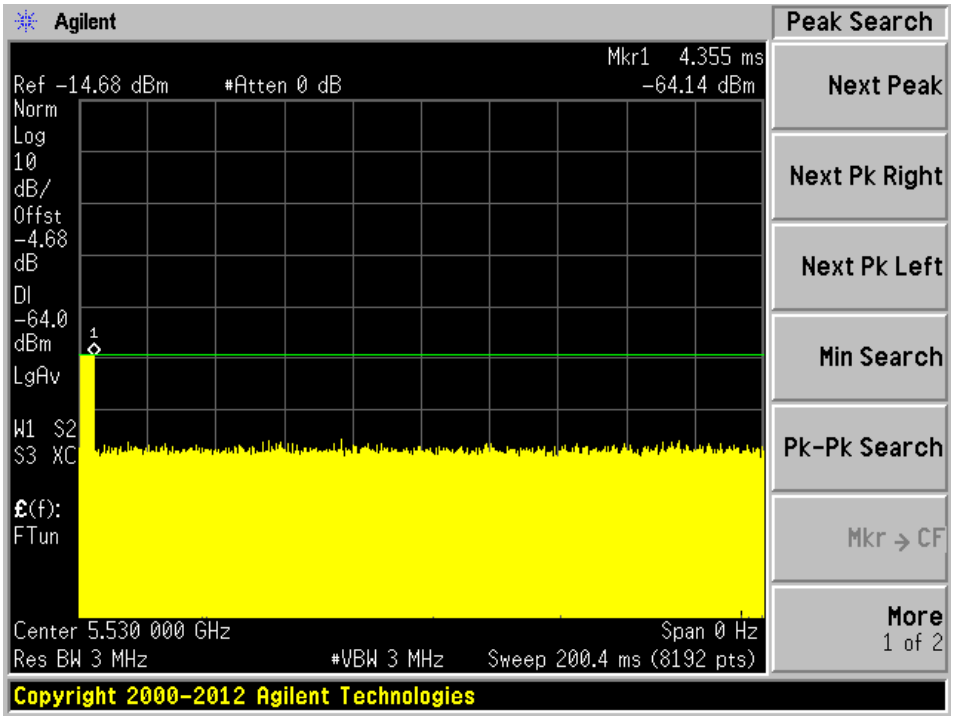
Radar Type 2



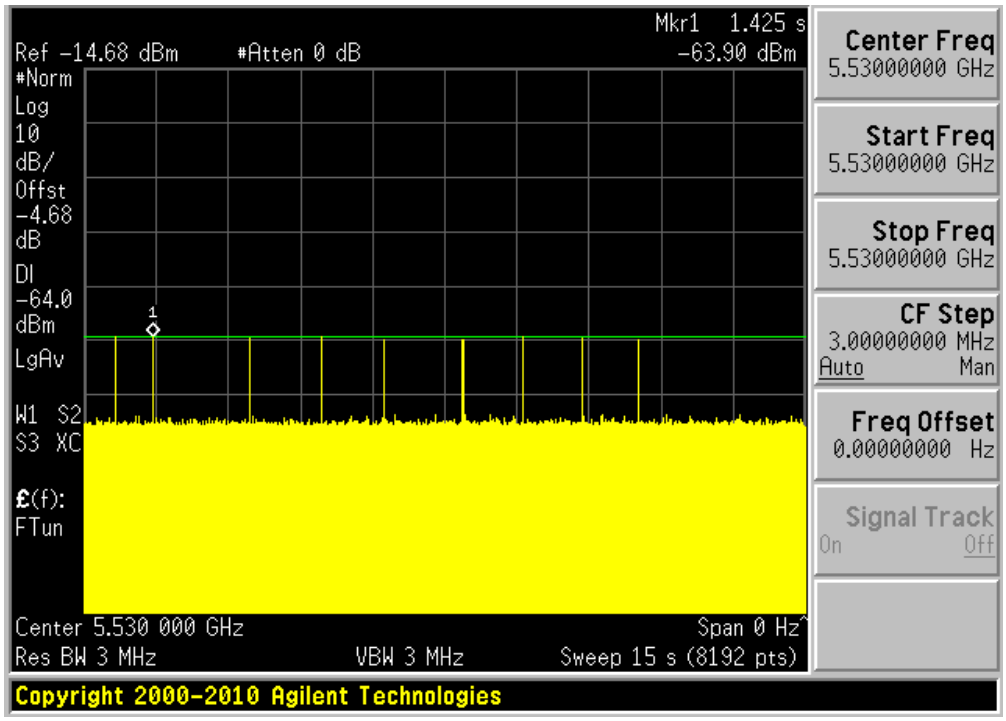
Radar Type 3



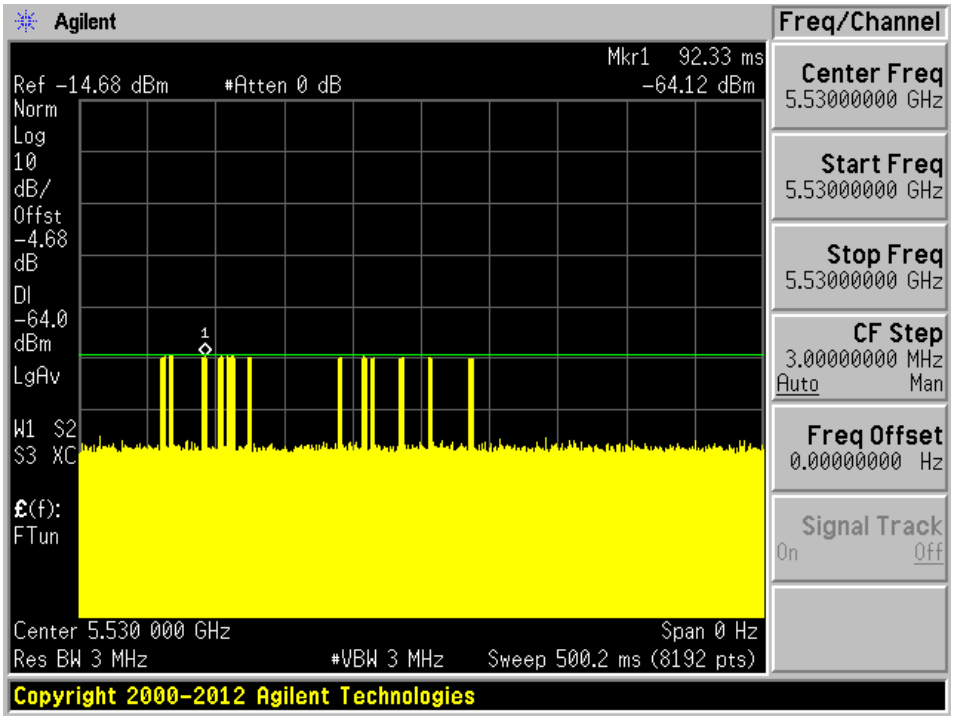
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

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

2) With link established on channel, apply a radar signal within 0~6 seconds after the initial power-up period; monitor the transmissions on channel from the spectrum analyzer.

3) Reboot EUT, with a link established on channel, apply a radar signal within 54~60 seconds after the initial power-up period, and monitor the transmission on channel from the spectrum analyzer.

EUT Initial power-up Cycle Time

Note: EUT initial Power-up cycle is vary, this testing was performed with software monitor function that shows the start time of CAC, once the monitor shows the CAC start time, we used the stop watch to keep the accuracy of the testing.

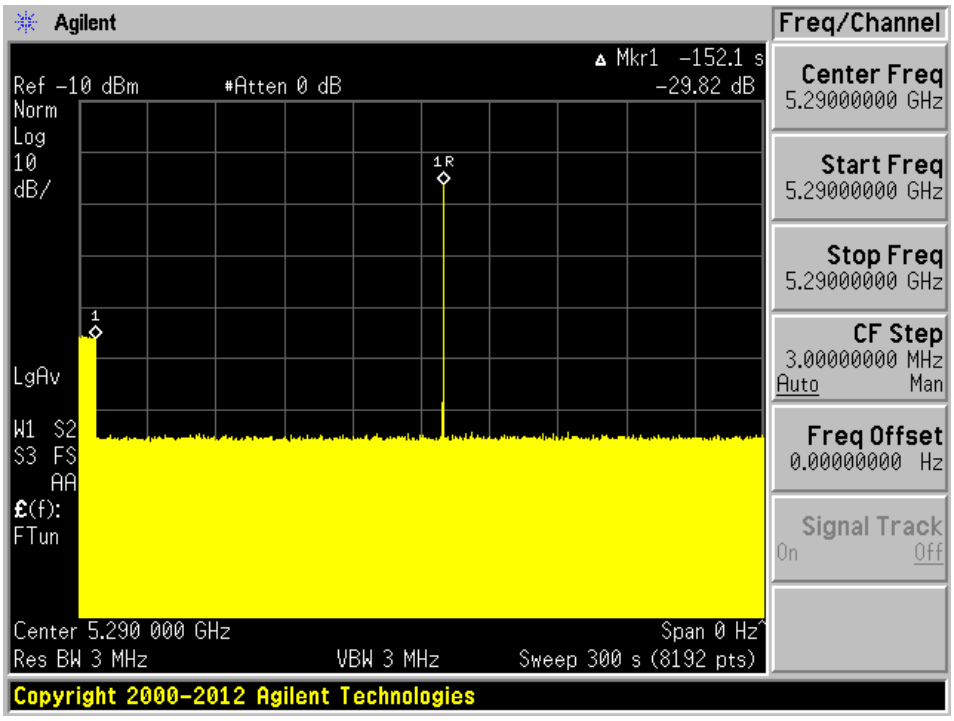
Results:

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Transmission begin after power-up cycle +61 seconds CAC	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

Note: The CAC test is with the Radar type 0.

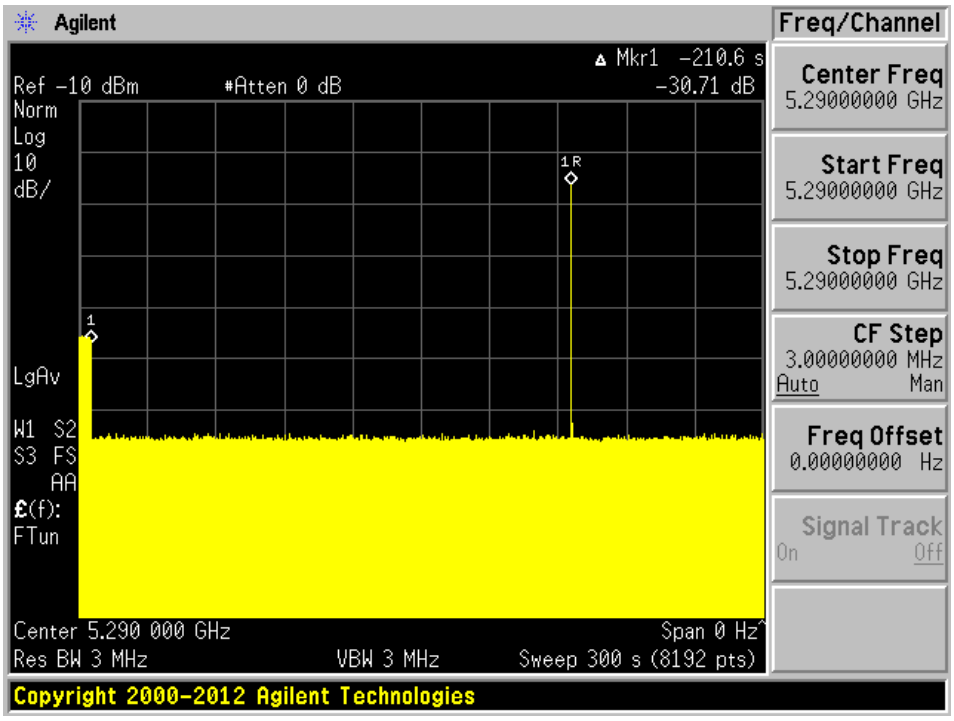
5290 MHz

Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

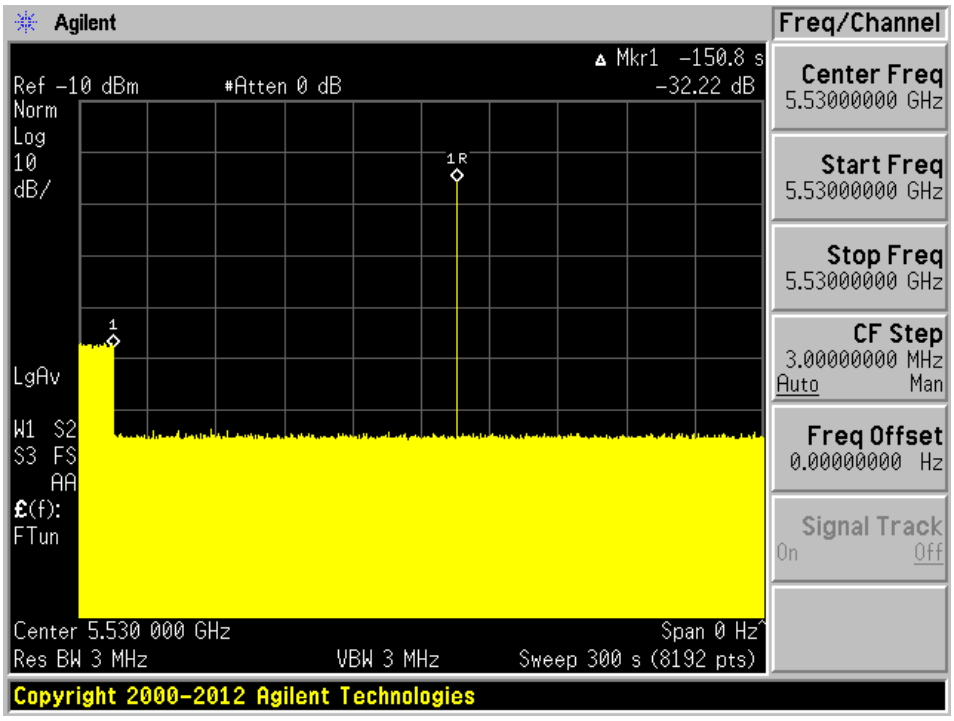
Plot of Radar signal applied at the end of 6 seconds of CAC



No transmissions found after radar signal applied.

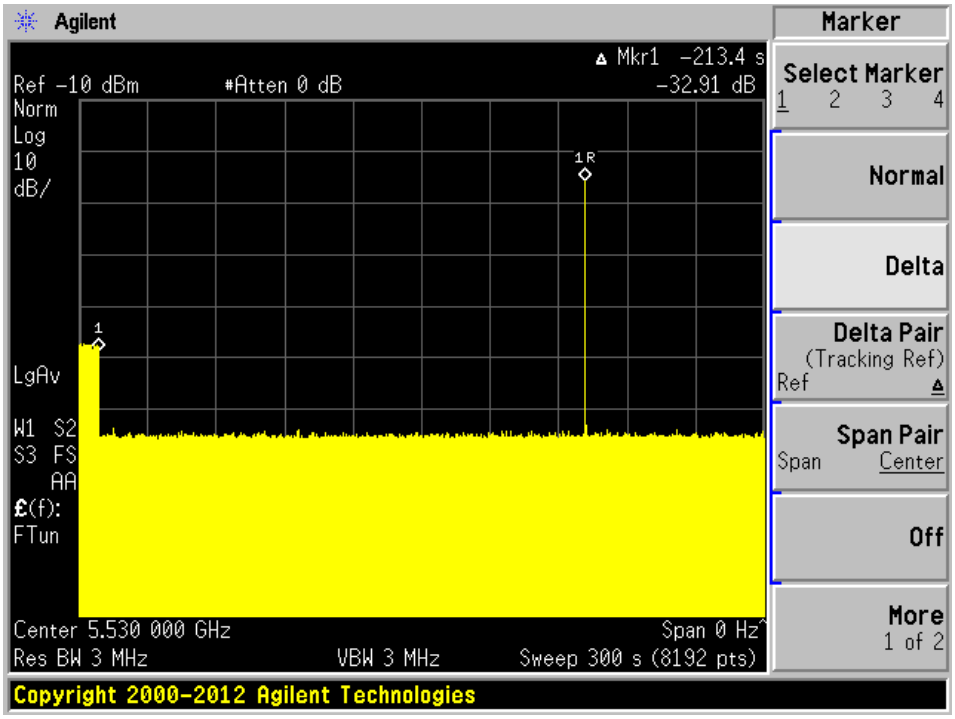
5530 MHz

Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

Plot of Radar signal applied at the end of 6 seconds of CAC



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

BACL use type 0 radar signal to test the channel move time and channel closing transmission time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N * Dwell Time

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

7.2 Test Results

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

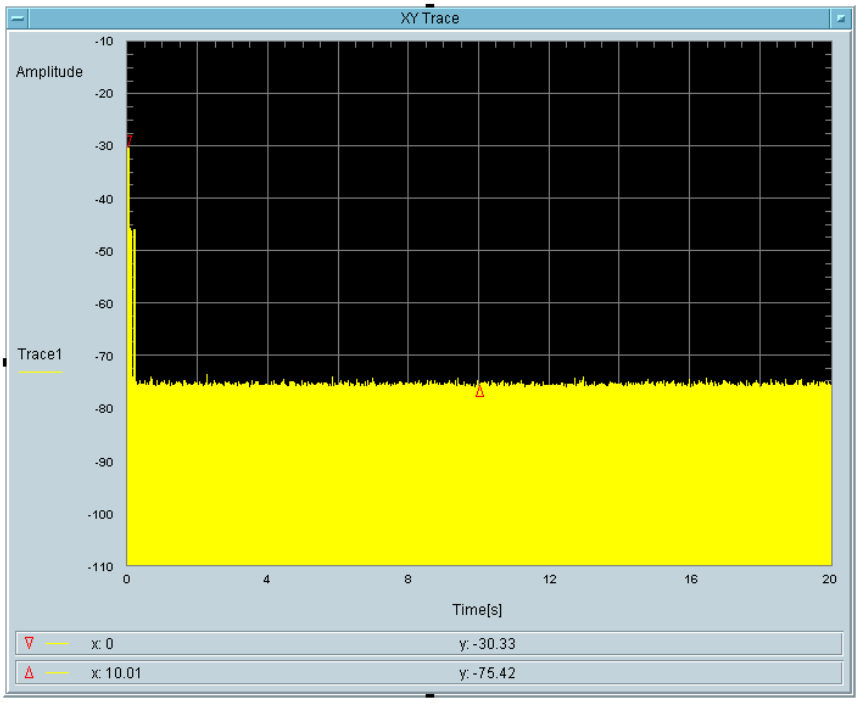
Please refer to the following tables and plots.

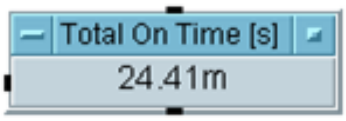
5290 MHz, Bandwidth 80 MHz

Type 0 radar channel move time and channel closing transmission time result:

Channel closing transmitting time (ms)	Limit (ms)	Result
24.41+2.441	200+60	Pass

Channel move time (s)	Limit (s)	Result
< 10	10	Pass



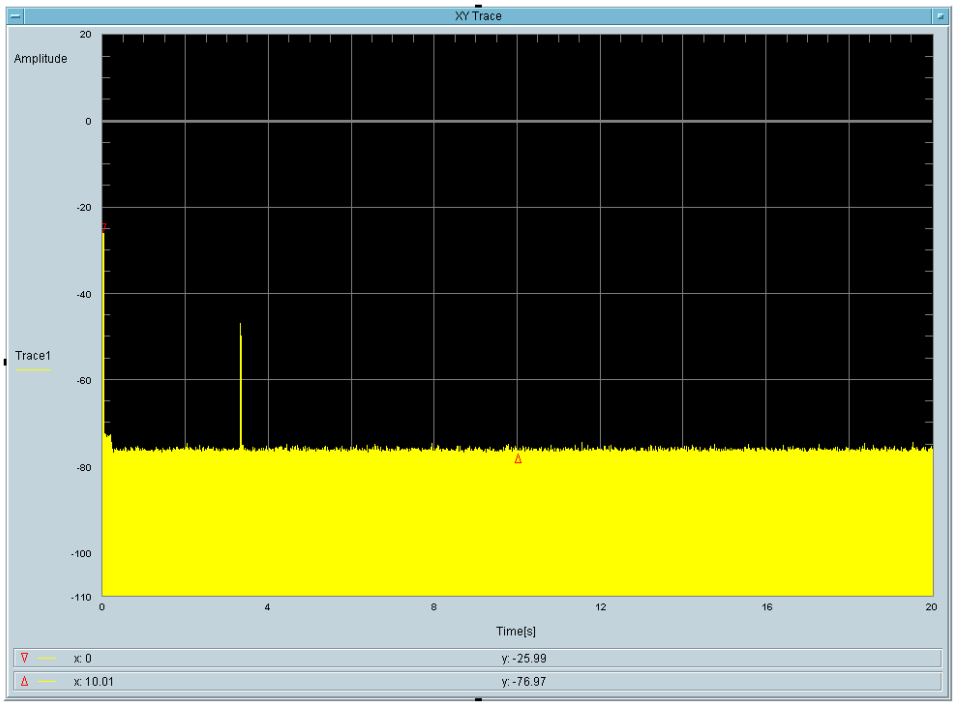


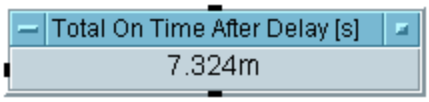
5530 MHz, Bandwidth 80 MHz

Type 0 radar channel move time and channel closing transmission time result:

Channel closing transmitting time (ms)	Limit (ms)	Result
26.86 + 7.324	200+60	Pass

Channel move time (s)	Limit (s)	Result
< 10	10	Pass





8 Non-Occupancy Period

8.1 Test Procedure

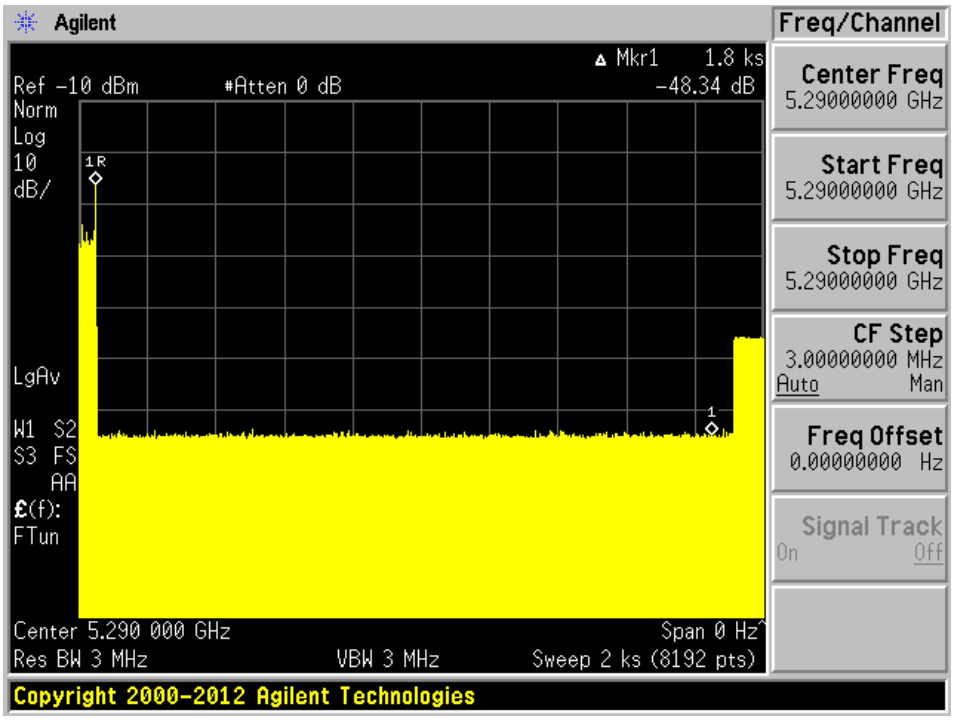
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

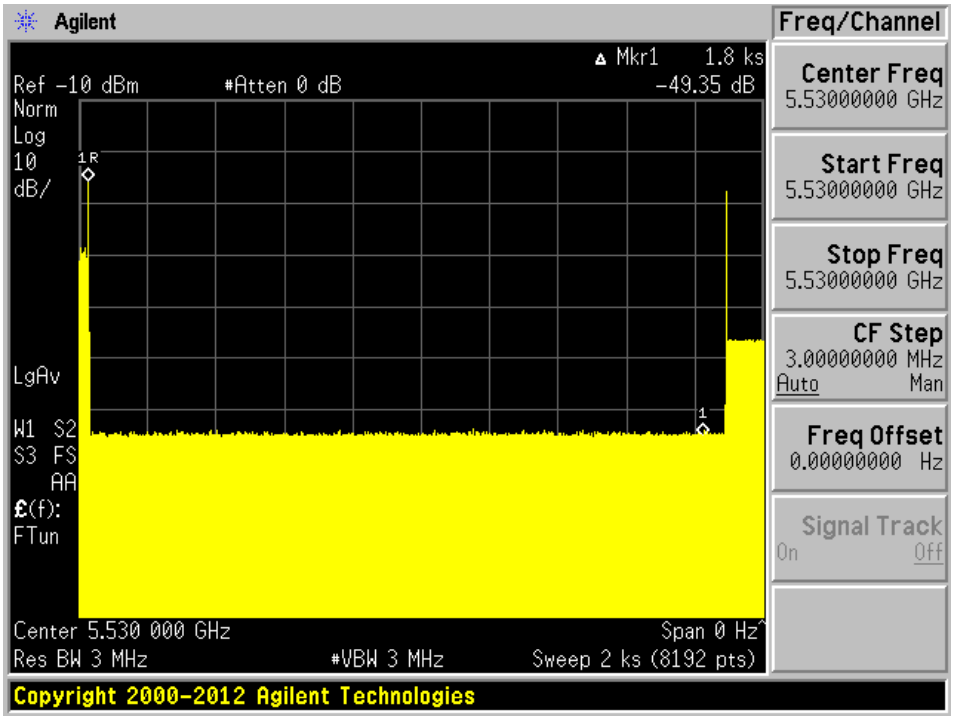
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

Please refer to the following plots.

5290 MHz, Bandwidth 80 MHz



5530 MHz, Bandwidth 80 MHz



9 Radar Detection Bandwidth & Radar Detection Performance Check

9.1 Detection Bandwidth

Procedure:

Performed with any one of the short pulse radar waveforms type 0

Starting at the center frequency of the EUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 4. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.

Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 4. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.

The U-NII Detection Bandwidth is calculated as follows: U-NII Detection Bandwidth = FH – FL

Test Results

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5260	5250	5270	20	100%	Compliance
5270	5250	5290	40	100%	Compliance
5290	5250	5330	80	100%	Compliance
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance

Please refer to the following tables.

Results of Detection Bandwidth:

EUT Frequency = 5260 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5271	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5270-5250=20 MHz											
EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz **Result:** Pass											

EUT Frequency = 5500 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5511	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5510-5490=20 MHz											
EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz **Result:** Pass											

Results of Detection Bandwidth:

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5290-5250=40 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz **Result:** Pass											

EUT Frequency = 5510 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5531	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5530-5490=40 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz **Result:** Pass											

Results of Detection Bandwidth:

EUT Frequency = 5290 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5331	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5330-5250=80 MHz											
EUT 99% OBW = 76 MHz; 76 x 100% = 76 MHz **Result:** Pass											

EUT Frequency = 5530 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5571	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5570-5490=80 MHz											
EUT 99% OBW = 76 MHz; 76 x 100% = 76 MHz **Result:** Pass											

9.2 Radar Detection Performance Check

Procedure:

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

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

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

Test Results:

5260 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	90 %	60%	Pass
Aggregate (Type1 to 4)	120	96.675 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	80 %	70%	Pass

Please refer to the following statistical tables:

5260 MHz, 20 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5260	86	1	618	1
2	5260	68	1	778	1
3	5260	78	1	678	1
4	5260	83	1	638	1
5	5260	99	1	538	1
6	5260	89	1	598	1
7	5260	59	1	898	1
8	5260	62	1	858	1
9	5260	76	1	698	1
10	5260	61	1	878	1
11	5260	58	1	918	1
12	5260	81	1	658	1
13	5260	92	1	578	1
14	5260	72	1	738	1
15	5260	74	1	718	1
16	5260	48	1	1114	1
17	5260	53	1	1003	1
18	5260	24	1	2231	1
19	5260	20	1	2655	1
20	5260	26	1	2094	1
21	5260	64	1	826	1
22	5260	21	1	2610	1
23	5260	31	1	1728	1
24	5260	30	1	1778	1
25	5260	20	1	2764	1
26	5260	19	1	2870	1
27	5260	54	1	991	1
28	5260	38	1	1408	1
29	5260	25	1	2117	1
30	5260	101	1	524	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5260	26	2.5	213	1
2	5260	28	1.9	172	1
3	5260	23	2.9	180	1
4	5260	24	3.1	208	1
5	5260	29	2.1	222	1
6	5260	27	4.9	223	1
7	5260	24	2.5	221	1
8	5260	24	1.9	218	1
9	5260	29	4.2	186	1
10	5260	29	1.2	210	1
11	5260	26	4.6	182	1
12	5260	29	2.6	174	1
13	5260	29	4.3	203	1
14	5260	27	3.1	175	1
15	5260	26	2.8	182	1
16	5260	25	4.6	184	1
17	5260	24	4.2	181	1
18	5260	23	4.8	167	1
19	5260	29	1.9	229	1
20	5260	25	1.5	201	1
21	5260	28	1.6	186	1
22	5260	23	5	160	1
23	5260	23	1.3	214	1
24	5260	29	2.6	201	1
25	5260	24	2	153	1
26	5260	29	1	189	1
27	5260	29	2.5	200	1
28	5260	23	2.3	181	1
29	5260	29	4.8	226	1
30	5260	27	5	230	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	5260	16	6.9	330	1
2	5260	18	9.2	299	1
3	5260	16	8.3	257	1
4	5260	16	6.6	405	1
5	5260	17	8	381	1
6	5260	16	6	324	1
7	5260	17	7.2	452	1
8	5260	17	7.3	385	1
9	5260	16	6.2	399	1
10	5260	17	6.5	432	1
11	5260	16	8.1	467	1
12	5260	17	8.4	352	1
13	5260	18	6	372	1
14	5260	18	8.4	333	1
15	5260	18	6.7	413	1
16	5260	17	9.4	315	1
17	5260	17	7.4	468	1
18	5260	16	7.8	335	1
19	5260	16	6.8	240	1
20	5260	18	8.3	397	1
21	5260	17	6.9	293	1
22	5260	17	7.5	431	1
23	5260	18	9.3	348	1
24	5260	16	6.9	425	1
25	5260	17	7.1	321	1
26	5260	17	8.9	483	1
27	5260	16	6.5	253	1
28	5260	17	9	464	1
29	5260	18	8.6	207	0
30	5260	16	6.1	278	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	5260	16	12.5	334	1
2	5260	13	11.8	201	0
3	5260	14	17.6	312	1
4	5260	16	19.4	266	1
5	5260	13	12.5	440	1
6	5260	14	12.1	300	1
7	5260	12	18.4	256	1
8	5260	14	17	238	1
9	5260	14	14.3	377	1
10	5260	15	19.2	277	1
11	5260	15	12	437	1
12	5260	12	13.4	328	1
13	5260	16	13.5	472	1
14	5260	14	12.8	313	1
15	5260	14	13.9	276	1
16	5260	13	12.9	381	1
17	5260	15	11.7	474	1
18	5260	12	11.5	371	1
19	5260	12	13.3	206	0
20	5260	14	11.4	369	1
21	5260	16	15.2	260	1
22	5260	13	15.6	342	1
23	5260	14	12.6	251	1
24	5260	12	11.6	239	1
25	5260	15	17.9	265	1
26	5260	13	19.4	345	1
27	5260	16	18.6	499	0
28	5260	15	15.9	282	1
29	5260	13	12.8	457	1
30	5260	13	13	454	1
Detection Percentage: 90% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5260	1
2	5260	1
3	5260	1
4	5260	1
5	5260	1
6	5260	1
7	5260	1
8	5260	1
9	5260	1
10	5260	1
11	5259.1	1
12	5259.1	1
13	5253.9	1
14	5254.7	1
15	5257.5	1
16	5256.3	1
17	5258.7	1
18	5253.5	1
19	5258.7	1
20	5255.1	1
21	5266.0	1
22	5266.4	1
23	5264.4	1
24	5264.8	1
25	5264.0	1
26	5264.0	1
27	5266.8	1
28	5265.6	1
29	5264.8	1
30	5264.8	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	68.7	1462		0.528642	
1	3	7	63.2	1826	1664	1.851601	
2	3	7	65.2	1036	1886	2.476743	
3	2	7	72.9	1382		4.201813	
4	2	7	76.8	1861		5.256042	
5	2	7	69.1	1457		5.470878	1
6	2	7	63.6	1240		6.983968	
7	2	7	68.9	1165		7.913086	
8	2	7	62.2	1688		8.814582	
9	3	7	89.5	1764	1885	10.055237	
10	2	7	83.6	1705		11.137431	

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	0	2	6	55.8	1770		
1	1	3	6	82.7	1822	1078	
2	2	1	6	90			
3	3	1	6	96.6			
4	4	2	6	57.4	1119		
5	5	2	6	58.5	1149		
6	6	2	6	63	1346		1
7	7	1	6	56.5			
8	8	2	6	93	1722		
9	9	3	6	63.4	1073	1499	
10	10	1	6	58.6			
11	11	2	6	55	1973		
12	12	3	6	56.7	1584	1844	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	80.3	1091		0.278422	
1	2	11	59.9	1902		1.201956	
2	2	11	80.8	1476		1.781154	
3	3	11	58.5	1357	1749	2.38507	
4	1	11	90.4			2.611776	
5	2	11	72.1	1114		3.192943	
6	3	11	57.2	1178	1068	4.117492	
7	2	11	75.6	1143		4.491791	
8	1	11	63.5			5.109499	
9	2	11	53.6	1417		5.687211	1
10	2	11	52.1	1671		6.647578	
11	2	11	62.3	1731		7.212047	
12	1	11	55.2			7.941627	
13	3	11	82.4	1781	1062	8.756806	
14	2	11	85.4	1660		8.939529	
15	2	11	99.2	1783		9.805235	
16	2	11	64.3	1288		10.368969	
17	2	11	59.4	1195		10.869557	
18	2	11	90	1494		11.543085	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	53	1890		0.13226	
1	1	13	86.1			0.718833	
2	1	13	74.2			1.749358	
3	1	13	84.6			2.263983	
4	2	13	56	1578		2.69929	
5	2	13	61.2	1986		3.458046	
6	3	13	78.1	1791	1587	4.195188	
7	2	13	68.3	1678		4.984741	
8	1	13	86.2			5.244798	
9	2	13	55.7	1010		5.707864	1
10	2	13	64.5	1646		6.846229	
11	2	13	66.2	1916		7.533356	
12	1	13	68.6			8.204612	
13	3	13	89.1	1706	1644	8.261437	
14	2	13	62.4	1451		9.349634	
15	2	13	92.9	1263		9.934667	
16	3	13	70.9	1669	1937	10.175458	
17	1	13	87.7			10.829331	
18	1	13	88.1			11.988723	

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	98.4	1844		0.629093	
1	2	15	63	1744		1.254049	
2	2	15	62.6	1552		2.142106	
3	1	15	76.7			3.15696	
4	2	15	96	1081		3.925068	
5	2	15	85.9	1593		4.607264	
6	2	15	69.6	1386		5.501849	
7	1	15	75			5.87162	1
8	3	15	63.1	1273	1370	6.459978	
9	2	15	63.1	1115		7.293254	
10	1	15	82.7			8.086829	
11	3	15	77.3	1621	1783	9.139017	
12	3	15	93.7	1896	1439	10.205856	
13	1	15	66.8			11.061667	
14	2	15	63.2	1683		11.652443	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	93.2	1531	1500	0.15649	
1	2	9	61.7	1561		1.582136	
2	1	9	86.7			2.832066	
3	2	9	84.5	1161		4.334883	
4	3	9	83.4	1265	1194	4.501266	
5	2	9	97.7	1024		5.91229	1
6	2	9	91.4	1942		7.208925	
7	1	9	82.1			8.579914	
8	1	9	58.9			9.104045	
9	3	9	50.2	1725	1999	10.584691	
10	2	9	66.6	1374		11.859788	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	98.9	1438		0.391769	1
1	3	15	89	1115	1517	1.452433	
2	2	15	72.8	1166		2.055755	
3	3	15	90.4	1326	1674	2.641691	
4	2	15	55.7	1982		3.468202	
5	3	15	99.4	1208	1005	5.132693	
6	1	15	61			5.412769	
7	2	15	59.8	1056		6.593268	
8	3	15	79.8	1450	1680	7.328608	
9	1	15	96.1			8.027167	
10	2	15	91.2	1125		8.988935	
11	2	15	98.1	1189		9.904551	
12	1	15	67.1			10.919826	
13	3	15	75.9	1914	1740	11.541291	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	77.1	1181		0.156067	1
1	2	12	91.1	1633		1.296411	
2	2	12	64.2	1790		1.96632	
3	3	12	53.4	1411	1054	2.397039	
4	1	12	84.7			3.008322	
5	2	12	87.5	1028		3.846883	
6	1	12	53.3			4.588112	
7	3	12	82.7	1591	1772	5.935061	
8	2	12	82.5	1536		6.37721	
9	2	12	97.7	1515		6.932707	
10	1	12	67.4			7.504735	
11	2	12	90.5	1359		8.501881	
12	3	12	83.7	1785	1279	9.614675	
13	2	12	67	1497		9.879226	
14	1	12	85.7			10.977466	
15	2	12	71.1	1108		11.279545	

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	5	50.9	1432	1137	0.12539	
1	2	5	54.4	1705		1.592775	
2	1	5	51.4			2.237157	
3	2	5	72.7	1531		3.318231	
4	1	5	68.8			3.826789	
5	1	5	91.2			4.813766	
6	3	5	80.5	1893	1898	5.947641	1
7	1	5	69			7.372545	
8	1	5	70.3			7.649116	
9	1	5	62.7			9.198623	
10	3	5	50.1	1588	1130	9.326027	
11	1	5	66			10.715578	
12	1	5	80.7			11.398998	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	86	1868		0.281614	
1	1	6	53.4			0.759462	
2	2	6	58.9	1440		2.074234	
3	3	6	65.2	1086	1402	2.494719	
4	2	6	55.5	1226		3.273145	
5	2	6	83	1770		3.563077	
6	2	6	72.2	1662		4.279624	
7	1	6	93			5.594473	
8	2	6	95.3	1037		5.881307	1
9	3	6	73	1520	1331	7.024159	
10	2	6	71.6	1090		7.156977	
11	1	6	75.1			7.893713	
12	3	6	76.5	1577	1430	8.536751	
13	1	6	77.7			9.656066	
14	3	6	96.2	1932	1008	10.327566	
15	2	6	82.6	1782		11.109226	
16	2	6	67.8	1944		11.952507	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	91			0.445986	1
1	2	19	72.6	1310		1.213232	
2	2	19	91.8	1647		1.489008	
3	2	19	82.9	1866		2.351278	
4	3	19	58.9	1553	1654	3.019604	
5	2	19	93.9	1882		3.710417	
6	3	19	95.1	1104	1479	4.161032	
7	2	19	53.5	1420		5.131601	
8	2	19	71.5	1859		5.779737	
9	3	19	78.2	1853	1713	6.091572	
10	2	19	79	1348		7.302888	
11	2	19	77.3	1289		7.447661	
12	2	19	54.5	1521		8.48727	
13	2	19	61.1	1002		9.218837	
14	3	19	87.3	1928	1058	9.841739	
15	3	19	79.5	1530	1400	10.291135	
16	2	19	56	1586		10.677051	
17	2	19	53.8	1598		11.593331	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	65.7	1398	1462	0.126033	
1	3	19	54.1	1404	1166	0.937174	
2	2	19	60.7	1908		1.808462	
3	3	19	99.1	1686	1814	2.545094	
4	1	19	64.5			3.45314	
5	3	19	58.5	1422	1911	3.698001	
6	2	19	96.3	1263		4.686799	
7	3	19	66.8	1632	1822	5.081063	
8	2	19	84.2	1505		6.065232	1
9	1	19	59.3			6.889415	
10	2	19	86.2	1042		7.598879	
11	1	19	92.1			8.302854	
12	2	19	89	1908		9.012544	
13	2	19	53.5	1097		9.552752	
14	2	19	95.9	1012		10.051411	
15	3	19	68.1	1553	1626	10.784892	
16	1	19	80.6			11.878752	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	80.6	1062	1086	0.598331	
1	1	6	77.5			1.3369	
2	2	6	87.4	1963		2.247695	
3	3	6	70	1436	1115	3.000046	
4	2	6	62.1	1642		3.563111	
5	2	6	58.9	1837		4.687462	
6	3	6	50.5	1031	1670	5.432027	
7	2	6	52.9	1930		6.221051	1
8	1	6	79.9			6.880679	
9	2	6	99.4	1583		7.536576	
10	3	6	50.2	1672	1122	8.765366	
11	1	6	50.8			9.261201	
12	1	6	81.3			10.161049	
13	1	6	91.5			10.872089	
14	2	6	66.9	1407		11.505834	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	90.3			0.018005	1
1	3	8	61.4	1546	1167	1.956745	
2	2	8	81.6	1898		3.01708	
3	2	8	69.5	1373		3.700534	
4	2	8	80.3	1044		5.590821	
5	1	8	99.2			6.286238	
6	2	8	68.5	1651		8.234609	
7	3	8	97.8	1228	1468	8.469683	
8	2	8	63.5	1733		9.96206	
9	3	8	86.8	1549	1987	10.999796	

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	15	61.6	1416		0.376374	1
1	2	15	71.7	1494		1.134105	
2	2	15	64.6	1473		1.838433	
3	2	15	88.5	1509		2.204363	
4	2	15	74.6	1272		2.915734	
5	2	15	81.5	1080		3.517773	
6	1	15	68.5			4.098573	
7	3	15	92.8	1641	1204	4.441818	
8	3	15	63.7	1407	1226	5.158821	
9	2	15	55.2	1330		6.235846	
10	2	15	72.3	1856		6.768278	
11	2	15	85.6	1793		7.326013	
12	2	15	91.5	1437		7.633435	
13	3	15	60.4	1646	1863	8.459793	
14	1	15	94.4			9.441932	
15	2	15	87.1	1821		9.824105	
16	2	15	96.8	1115		10.629817	
17	1	15	53.3			11.253412	
18	2	15	65.8	1781		11.666266	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	93.6	1330	1722	0.711095	
1	3	12	81.3	1842	1337	1.744395	
2	3	12	63.2	1854	1130	2.356967	
3	1	12	62.1			2.973127	
4	3	12	52.7	1548	1564	3.730048	
5	2	12	53.3	1595		4.879559	
6	1	12	95.4			6.028069	1
7	1	12	80.2			6.521865	
8	3	12	91.9	1393	1390	7.940838	
9	2	12	95.4	1737		8.348957	
10	3	12	54	1098	1388	10.005419	
11	1	12	74.3			10.383756	
12	2	12	95.7	1278		11.197583	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	93.9	1638		0.033922	
1	3	18	92.6	1050	1689	1.251152	
2	3	18	68.6	1114	1163	1.901725	
3	2	18	72.4	1299		2.125847	
4	3	18	89	1187	1644	3.319472	
5	2	18	92.4	1800		3.903386	
6	3	18	90.2	1613	1316	4.600505	
7	1	18	52.2			5.225703	
8	1	18	51.9			5.655464	
9	2	18	70.2	1975		6.211814	1
10	2	18	61.8	1615		7.258276	
11	2	18	55.4	1780		7.573748	
12	2	18	90	1315		8.03853	
13	1	18	96			9.190259	
14	2	18	71.8	1447		9.580618	
15	1	18	78			10.297757	
16	3	18	62.4	1665	1592	10.668001	
17	2	18	65.6	1823		11.966789	

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	5	52.9	1352		0.163221	
1	2	5	61.4	1109		1.735743	
2	3	5	62.3	1351	1949	2.215515	
3	1	5	59.4			3.660787	
4	1	5	61.7			3.844352	
5	2	5	66.6	1621		5.425817	
6	2	5	50.5	1178		6.236596	1
7	3	5	77.8	1004	1099	6.982532	
8	2	5	52.1	1987		7.850775	
9	2	5	81.2	1614		8.513599	
10	3	5	88.2	1986	1084	9.701273	
11	2	5	62.5	1591		10.29345	
12	2	5	92.1	1151		11.383552	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	53.2			0.705196	
1	1	18	92			1.342878	
2	1	18	86.3			1.995189	
3	1	18	98.5			2.719144	
4	1	18	84.7			3.280076	
5	2	18	82.2	1163		4.490779	
6	3	18	97	1134	1904	5.120753	
7	2	18	97.3	1843		6.005865	1
8	3	18	85.3	1885	1788	6.496938	
9	2	18	84.6	1094		7.59815	
10	2	18	56.5	1378		8.573042	
11	3	18	50.9	1562	1592	9.496913	
12	2	18	65.9	1018		10.356149	
13	2	18	98.3	1154		10.938408	
14	3	18	79.2	1669	1627	11.517186	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	56.1	1938	1511	0.207486	1
1	2	9	85	1770		1.177511	
2	1	9	94.9			2.098516	
3	2	9	81.7	1083		3.072161	
4	3	9	82.7	1451	1981	4.345557	
5	1	9	53.1			5.927502	
6	1	9	71.4			6.409416	
7	2	9	87.2	1096		7.11335	
8	1	9	77.1			8.123683	
9	2	9	66.4	1015		9.847703	
10	3	9	90.1	1136	1118	10.755069	
11	3	9	92.8	1321	1376	11.196338	

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	10	56.4	1281	1803	0.793417	1
1	3	10	51.7	1321	1077	1.441363	
2	2	10	56.4	1731		1.909361	
3	1	10	88.1			2.906527	
4	1	10	68.3			3.886699	
5	1	10	63.8			5.003897	
6	2	10	98.6	1156		5.367479	
7	2	10	96.3	1628		6.096506	
8	2	10	51.6	1993		7.387876	
9	3	10	56.7	1306	1541	8.45445	
10	1	10	60.7			8.884126	
11	2	10	81.7	1781		9.934501	
12	3	10	73.2	1310	1043	10.47994	
13	2	10	60.7	1973		11.694925	

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	9	77.8	1882	1989	0.509263	
1	1	9	77.2			2.149339	
2	3	9	83.2	1036	1532	3.359832	
3	2	9	71.2	1804		4.567139	
4	3	9	70.3	1982	1774	6.605081	1
5	1	9	60.3			7.054445	
6	1	9	63.2			9.167351	
7	2	9	69.9	1448		9.59636	
8	2	9	94.9	1365		11.108208	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	57.3	1185		0.284843	
1	1	14	89.8			1.146094	
2	2	14	56.8	1671		1.859564	
3	2	14	66.2	1161		2.80123	
4	3	14	69.6	1364	1033	3.332792	
5	1	14	79.8			4.367596	
6	2	14	59.7	1533		5.318129	
7	3	14	90.1	1484	1205	6.273032	1
8	1	14	92.2			7.000704	
9	1	14	63.5			7.991289	
10	2	14	99.8	1632		8.023542	
11	3	14	93.1	1961	1947	9.32397	
12	2	14	94.1	1533		10.084827	
13	3	14	87	1451	1066	10.978022	
14	2	14	72.7	1812		11.7708	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	92	1008	1898	0.826522	1
1	3	13	82.1	1380	1948	2.382502	
2	2	13	77	1376		3.095714	
3	2	13	95.3	1101		4.179646	
4	2	13	93	1847		5.452968	
5	3	13	74.9	1628	1806	7.167558	
6	1	13	91			7.716631	
7	1	13	69.6			8.991483	
8	2	13	67.4	1361		10.095694	
9	2	13	62.1	1394		11.371203	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	51.7	1669	1743	0.384841	1
1	1	15	94.2			1.861826	
2	2	15	64.5	1263		3.459352	
3	3	15	52.7	1579	1974	4.203679	
4	1	15	78.4			5.393301	
5	2	15	89.3	1363		7.069379	
6	2	15	69.4	1159		7.729679	
7	2	15	87.4	1446		8.91544	
8	3	15	74.4	1158	1652	9.830341	
9	3	15	93.9	1994	1140	11.299031	

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	15	72.6	1156		0.162872	
1	2	15	78.3	1683		1.204897	
2	1	15	84.3			1.96489	
3	2	15	67.7	1893		3.028688	
4	2	15	80.8	1579		3.760239	
5	1	15	66.7			4.396213	
6	1	15	51.4			5.040873	
7	1	15	76.9			6.092131	1
8	2	15	59.8	1855		7.02888	
9	2	15	81.3	1421		7.773292	
10	3	15	73.6	1560	1697	8.299097	
11	1	15	88.7			8.815025	
12	2	15	78.7	1215		9.740815	
13	2	15	56.4	1366		10.450276	
14	2	15	85.1	1822		11.972313	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	80.1			0.048911	
1	3	8	67.4	1676	1560	0.772201	
2	2	8	67.4	1880		1.704243	
3	3	8	73.9	1135	1907	2.510677	
4	2	8	94	1531		3.192824	
5	1	8	65.3			3.802397	
6	2	8	75.8	1282		4.741858	
7	2	8	58.9	1653		5.031538	
8	2	8	56.9	1287		5.823547	1
9	3	8	55.7	1038	1749	6.878228	
10	2	8	75.1	1775		7.455844	
11	2	8	84.2	1860		8.453566	
12	2	8	85	1752		8.613459	
13	2	8	93	1972		9.541911	
14	2	8	79.3	1743		9.897518	
15	2	8	60.9	1479		10.890666	
16	2	8	84.2	1808		11.730043	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	81.6	1009	1440	1.038184	
1	1	11	99.4			1.533451	
2	3	11	88.5	1694	1945	2.650174	
3	3	11	78.8	1891	1075	3.706218	
4	3	11	52.4	1434	1087	4.996765	
5	2	11	80.1	1947		6.44392	1
6	1	11	51.5			7.316115	
7	2	11	71.9	1440		8.396894	
8	3	11	76.2	1979	1831	9.150496	
9	3	11	93.5	1174	1592	10.387734	
10	2	11	79.3	1779		11.064515	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	54.4	1776		0.343411	
1	2	13	55.9	1730		2.660457	
2	2	13	61.6	1098		3.757377	
3	2	13	59.1	1571		5.240613	
4	1	13	86.3			6.208167	1
5	2	13	73.4	1733		7.188484	
6	1	13	98.6			8.876612	
7	2	13	98.9	1049		10.225905	
8	3	13	76.6	1580	1141	10.960264	

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	13	79.5	1415		0.720465	
1	1	13	99.2			1.337747	
2	3	13	61.7	1578	1852	1.901213	
3	2	13	93	1517		2.447847	
4	2	13	83.6	1461		3.418733	
5	2	13	69.9	1599		4.384498	
6	1	13	88.8			5.08487	
7	3	13	98.1	1981	1351	5.477489	1
8	2	13	53.5	1823		6.128729	
9	2	13	74.1	1412		7.063274	
10	1	13	67.7			7.624298	
11	3	13	84.1	1874	1781	8.532968	
12	2	13	79	1623		9.087016	
13	3	13	96.1	1371	1669	10.28777	
14	1	13	89.8			10.877514	
15	2	13	70.7	1875		11.426474	

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	5260	9	1	333	1	5257.0, 5520.0, 5519.0, 5418.0, 5709.0, 5591.0, 5546.0, 5444.0, 5717.0, 5523.0, 5603.0, 5715.0, 5251.0, 5683.0, 5653.0, 5666.0, 5479.0, 5412.0, 5465.0, 5387.0, 5501.0, 5607.0, 5478.0, 5558.0, 5323.0, 5644.0, 5624.0, 5560.0, 5416.0, 5528.0, 5334.0, 5280.0, 5648.0, 5286.0, 5254.0, 5675.0, 5623.0, 5707.0, 5573.0, 5640.0, 5426.0, 5693.0, 5377.0, 5464.0, 5502.0, 5542.0, 5345.0, 5685.0, 5529.0, 5682.0, 5420.0, 5430.0, 5461.0, 5616.0, 5279.0, 5371.0, 5289.0, 5621.0, 5571.0, 5509.0, 5455.0, 5357.0, 5641.0, 5600.0, 5533.0, 5674.0, 5332.0, 5427.0, 5610.0, 5611.0, 5513.0, 5586.0, 5634.0, 5425.0, 5596.0, 5414.0, 5459.0, 5396.0, 5652.0, 5321.0, 5395.0, 5499.0, 5435.0, 5524.0, 5486.0, 5508.0, 5572.0, 5722.0, 5484.0, 5389.0, 5278.0, 5355.0, 5567.0, 5658.0, 5339.0, 5690.0, 5275.0, 5476.0, 5598.0, 5419.0 (number of hits: 3)
2	5260	9	1	333	1	5277.0, 5461.0, 5342.0, 5278.0, 5317.0, 5456.0, 5336.0, 5356.0, 5722.0, 5444.0, 5562.0, 5467.0, 5446.0, 5407.0, 5266.0, 5577.0, 5288.0, 5325.0, 5623.0, 5650.0, 5568.0, 5296.0, 5416.0, 5411.0, 5294.0, 5252.0, 5488.0, 5651.0, 5283.0, 5425.0, 5524.0, 5574.0, 5584.0, 5323.0, 5265.0, 5709.0, 5309.0, 5578.0, 5346.0, 5354.0, 5684.0, 5664.0, 5513.0, 5292.0, 5428.0, 5601.0, 5511.0, 5395.0, 5616.0, 5527.0, 5370.0, 5348.0, 5398.0, 5719.0, 5476.0, 5702.0, 5604.0, 5707.0, 5449.0, 5438.0, 5557.0, 5599.0, 5630.0, 5390.0, 5413.0, 5302.0, 5465.0, 5458.0, 5474.0, 5270.0, 5657.0, 5451.0, 5530.0, 5311.0, 5328.0, 5448.0, 5455.0, 5297.0, 5617.0, 5590.0, 5695.0, 5479.0, 5384.0, 5697.0, 5320.0, 5610.0, 5361.0, 5295.0, 5499.0, 5374.0, 5506.0, 5404.0, 5343.0, 5273.0, 5355.0, 5400.0, 5634.0, 5459.0, 5528.0, 5673.0 (number of hits: 3)
3	5260	9	1	333	1	5520.0, 5487.0, 5536.0, 5580.0, 5265.0, 5669.0, 5419.0, 5255.0, 5684.0, 5517.0, 5411.0, 5537.0, 5373.0, 5360.0, 5673.0, 5458.0, 5554.0, 5341.0, 5351.0, 5660.0, 5657.0, 5445.0, 5392.0, 5651.0, 5676.0, 5630.0, 5602.0, 5605.0, 5468.0, 5532.0, 5551.0, 5286.0, 5332.0, 5661.0, 5633.0, 5627.0, 5312.0, 5498.0, 5443.0, 5644.0, 5440.0, 5694.0, 5526.0, 5291.0, 5252.0, 5501.0, 5430.0, 5485.0, 5638.0, 5359.0, 5714.0, 5262.0, 5505.0, 5363.0, 5450.0,

						5625.0, 5575.0, 5388.0, 5372.0, 5333.0, 5404.0, 5357.0, 5502.0, 5294.0, 5425.0, 5434.0, 5327.0, 5406.0, 5300.0, 5701.0, 5378.0, 5383.0, 5512.0, 5465.0, 5356.0, 5401.0, 5613.0, 5297.0, 5398.0, 5461.0, 5318.0, 5678.0, 5254.0, 5692.0, 5663.0, 5414.0, 5424.0, 5666.0, 5304.0, 5309.0, 5355.0, 5529.0, 5634.0, 5607.0, 5453.0, 5370.0, 5589.0, 5637.0, 5278.0, 5722.0 (number of hits: 5)
4	5260	9	1	333	1	5258.0, 5550.0, 5671.0, 5466.0, 5693.0, 5494.0, 5602.0, 5513.0, 5648.0, 5352.0, 5506.0, 5667.0, 5493.0, 5281.0, 5531.0, 5353.0, 5638.0, 5699.0, 5421.0, 5478.0, 5523.0, 5529.0, 5541.0, 5603.0, 5437.0, 5691.0, 5528.0, 5674.0, 5510.0, 5639.0, 5597.0, 5593.0, 5489.0, 5721.0, 5719.0, 5306.0, 5403.0, 5315.0, 5634.0, 5509.0, 5441.0, 5351.0, 5552.0, 5386.0, 5555.0, 5557.0, 5665.0, 5715.0, 5385.0, 5490.0, 5495.0, 5564.0, 5680.0, 5312.0, 5574.0, 5637.0, 5310.0, 5295.0, 5273.0, 5461.0, 5629.0, 5300.0, 5337.0, 5710.0, 5414.0, 5268.0, 5511.0, 5323.0, 5553.0, 5684.0, 5706.0, 5620.0, 5527.0, 5497.0, 5537.0, 5284.0, 5335.0, 5446.0, 5349.0, 5331.0, 5360.0, 5444.0, 5508.0, 5515.0, 5512.0, 5716.0, 5422.0, 5722.0, 5358.0, 5324.0, 5465.0, 5285.0, 5675.0, 5410.0, 5447.0, 5556.0, 5596.0, 5521.0, 5560.0, 5456.0 (number of hits: 2)
5	5260	9	1	333	0	-
6	5260	9	1	333	1	5254.0, 5317.0, 5303.0, 5267.0, 5693.0, 5723.0, 5473.0, 5283.0, 5592.0, 5434.0, 5285.0, 5338.0, 5488.0, 5453.0, 5608.0, 5507.0, 5660.0, 5576.0, 5518.0, 5461.0, 5636.0, 5373.0, 5438.0, 5413.0, 5430.0, 5541.0, 5529.0, 5484.0, 5347.0, 5525.0, 5387.0, 5422.0, 5426.0, 5621.0, 5272.0, 5433.0, 5459.0, 5395.0, 5657.0, 5265.0, 5661.0, 5305.0, 5634.0, 5616.0, 5687.0, 5491.0, 5341.0, 5514.0, 5686.0, 5720.0, 5519.0, 5651.0, 5448.0, 5722.0, 5363.0, 5618.0, 5350.0, 5588.0, 5549.0, 5698.0, 5471.0, 5457.0, 5376.0, 5314.0, 5613.0, 5304.0, 5296.0, 5711.0, 5600.0, 5445.0, 5540.0, 5714.0, 5464.0, 5381.0, 5315.0, 5590.0, 5331.0, 5584.0, 5427.0, 5617.0, 5623.0, 5658.0, 5360.0, 5291.0, 5349.0, 5439.0, 5418.0, 5707.0, 5345.0, 5517.0, 5292.0, 5340.0, 5399.0, 5356.0, 5410.0, 5474.0, 5591.0, 5440.0, 5683.0, 5692.0 (number of hits: 3)
7	5260	9	1	333	0	-
8	5260	9	1	333	1	5481.0, 5547.0, 5502.0, 5575.0, 5272.0, 5496.0, 5308.0, 5612.0, 5388.0, 5568.0, 5643.0, 5577.0, 5596.0, 5332.0, 5602.0, 5590.0, 5606.0, 5702.0, 5415.0, 5451.0, 5391.0, 5640.0, 5630.0, 5411.0, 5512.0,

						5266.0, 5509.0, 5483.0, 5397.0, 5544.0, 5687.0, 5420.0, 5548.0, 5664.0, 5663.0, 5660.0, 5644.0, 5713.0, 5554.0, 5689.0, 5613.0, 5263.0, 5688.0, 5374.0, 5372.0, 5563.0, 5516.0, 5556.0, 5347.0, 5363.0, 5591.0, 5492.0, 5636.0, 5260.0, 5398.0, 5304.0, 5489.0, 5595.0, 5499.0, 5352.0, 5510.0, 5584.0, 5431.0, 5557.0, 5417.0, 5348.0, 5262.0, 5619.0, 5275.0, 5285.0, 5527.0, 5700.0, 5622.0, 5521.0, 5501.0, 5719.0, 5498.0, 5421.0, 5345.0, 5267.0, 5380.0, 5555.0, 5536.0, 5561.0, 5265.0, 5714.0, 5324.0, 5366.0, 5598.0, 5550.0, 5474.0, 5287.0, 5427.0, 5407.0, 5422.0, 5701.0, 5435.0, 5632.0, 5361.0, 5323.0 (number of hits: 6)
9	5260	9	1	333	1	5411.0, 5349.0, 5721.0, 5369.0, 5268.0, 5306.0, 5594.0, 5294.0, 5474.0, 5400.0, 5452.0, 5439.0, 5422.0, 5567.0, 5580.0, 5286.0, 5347.0, 5278.0, 5691.0, 5653.0, 5367.0, 5564.0, 5483.0, 5251.0, 5426.0, 5433.0, 5641.0, 5656.0, 5687.0, 5519.0, 5561.0, 5314.0, 5435.0, 5445.0, 5399.0, 5357.0, 5566.0, 5281.0, 5670.0, 5702.0, 5680.0, 5584.0, 5342.0, 5548.0, 5692.0, 5413.0, 5715.0, 5302.0, 5576.0, 5537.0, 5254.0, 5668.0, 5449.0, 5308.0, 5446.0, 5612.0, 5636.0, 5459.0, 5524.0, 5662.0, 5624.0, 5660.0, 5645.0, 5686.0, 5598.0, 5265.0, 5464.0, 5295.0, 5535.0, 5509.0, 5293.0, 5666.0, 5553.0, 5698.0, 5657.0, 5538.0, 5642.0, 5586.0, 5603.0, 5252.0, 5279.0, 5575.0, 5649.0, 5572.0, 5386.0, 5428.0, 5518.0, 5258.0, 5361.0, 5478.0, 5506.0, 5431.0, 5311.0, 5665.0, 5525.0, 5287.0, 5285.0, 5415.0, 5716.0, 5475.0 (number of hits: 6)
10	5260	9	1	333	1	5335.0, 5350.0, 5523.0, 5287.0, 5411.0, 5677.0, 5402.0, 5306.0, 5531.0, 5395.0, 5569.0, 5282.0, 5584.0, 5356.0, 5367.0, 5724.0, 5313.0, 5429.0, 5262.0, 5461.0, 5470.0, 5318.0, 5666.0, 5412.0, 5555.0, 5420.0, 5399.0, 5599.0, 5317.0, 5680.0, 5594.0, 5439.0, 5324.0, 5637.0, 5472.0, 5263.0, 5380.0, 5655.0, 5559.0, 5522.0, 5279.0, 5516.0, 5659.0, 5309.0, 5678.0, 5517.0, 5487.0, 5503.0, 5624.0, 5278.0, 5452.0, 5341.0, 5534.0, 5518.0, 5401.0, 5393.0, 5416.0, 5482.0, 5315.0, 5442.0, 5717.0, 5307.0, 5413.0, 5453.0, 5343.0, 5357.0, 5339.0, 5647.0, 5417.0, 5589.0, 5433.0, 5362.0, 5698.0, 5593.0, 5463.0, 5560.0, 5711.0, 5460.0, 5474.0, 5376.0, 5388.0, 5451.0, 5702.0, 5288.0, 5295.0, 5490.0, 5327.0, 5272.0, 5704.0, 5336.0, 5407.0, 5565.0, 5597.0, 5671.0, 5710.0, 5478.0, 5473.0, 5340.0, 5574.0, 5303.0 (number of hits: 2)
11	5260	9	1	333	1	5360.0, 5427.0, 5269.0, 5258.0, 5389.0,

						5467.0, 5314.0, 5392.0, 5567.0, 5591.0, 5311.0, 5327.0, 5687.0, 5393.0, 5616.0, 5583.0, 5452.0, 5692.0, 5595.0, 5566.0, 5369.0, 5658.0, 5382.0, 5267.0, 5268.0, 5547.0, 5682.0, 5439.0, 5694.0, 5428.0, 5462.0, 5624.0, 5516.0, 5579.0, 5391.0, 5522.0, 5526.0, 5592.0, 5675.0, 5523.0, 5332.0, 5691.0, 5495.0, 5331.0, 5690.0, 5638.0, 5689.0, 5367.0, 5557.0, 5672.0, 5677.0, 5664.0, 5568.0, 5323.0, 5411.0, 5461.0, 5309.0, 5588.0, 5364.0, 5676.0, 5706.0, 5399.0, 5504.0, 5341.0, 5539.0, 5482.0, 5388.0, 5524.0, 5260.0, 5647.0, 5582.0, 5705.0, 5611.0, 5618.0, 5401.0, 5263.0, 5520.0, 5605.0, 5370.0, 5416.0, 5667.0, 5630.0, 5678.0, 5421.0, 5525.0, 5432.0, 5275.0, 5317.0, 5668.0, 5651.0, 5674.0, 5390.0, 5602.0, 5425.0, 5654.0, 5444.0, 5519.0, 5363.0, 5443.0, 5286.0 (number of hits: 6)
12	5260	9	1	333	1	5284.0, 5441.0, 5488.0, 5385.0, 5313.0, 5678.0, 5716.0, 5440.0, 5558.0, 5482.0, 5682.0, 5657.0, 5645.0, 5632.0, 5571.0, 5671.0, 5653.0, 5372.0, 5570.0, 5548.0, 5615.0, 5470.0, 5400.0, 5359.0, 5257.0, 5260.0, 5429.0, 5333.0, 5550.0, 5684.0, 5518.0, 5502.0, 5693.0, 5305.0, 5673.0, 5529.0, 5508.0, 5443.0, 5366.0, 5269.0, 5524.0, 5451.0, 5486.0, 5719.0, 5274.0, 5521.0, 5579.0, 5255.0, 5387.0, 5312.0, 5338.0, 5543.0, 5602.0, 5503.0, 5390.0, 5720.0, 5254.0, 5279.0, 5392.0, 5599.0, 5409.0, 5662.0, 5457.0, 5467.0, 5252.0, 5370.0, 5371.0, 5666.0, 5511.0, 5702.0, 5631.0, 5586.0, 5468.0, 5652.0, 5292.0, 5664.0, 5574.0, 5368.0, 5520.0, 5555.0, 5462.0, 5594.0, 5584.0, 5426.0, 5330.0, 5589.0, 5676.0, 5501.0, 5432.0, 5265.0, 5416.0, 5510.0, 5583.0, 5375.0, 5638.0, 5680.0, 5404.0, 5300.0, 5402.0, 5512.0 (number of hits: 7)
13	5260	9	1	333	0	-
14	5260	9	1	333	1	5398.0, 5440.0, 5580.0, 5592.0, 5445.0, 5612.0, 5433.0, 5689.0, 5307.0, 5712.0, 5526.0, 5723.0, 5436.0, 5461.0, 5332.0, 5315.0, 5320.0, 5654.0, 5600.0, 5455.0, 5582.0, 5509.0, 5530.0, 5278.0, 5626.0, 5554.0, 5493.0, 5276.0, 5608.0, 5396.0, 5453.0, 5423.0, 5264.0, 5274.0, 5422.0, 5563.0, 5694.0, 5649.0, 5571.0, 5327.0, 5616.0, 5349.0, 5653.0, 5675.0, 5358.0, 5568.0, 5411.0, 5285.0, 5465.0, 5555.0, 5271.0, 5338.0, 5324.0, 5484.0, 5623.0, 5346.0, 5294.0, 5498.0, 5340.0, 5620.0, 5576.0, 5335.0, 5672.0, 5686.0, 5344.0, 5625.0, 5719.0, 5322.0, 5680.0, 5391.0, 5251.0, 5339.0, 5427.0, 5705.0, 5676.0, 5370.0, 5573.0, 5287.0, 5532.0, 5651.0, 5395.0, 5553.0, 5408.0, 5494.0, 5443.0,

						5595.0, 5699.0, 5611.0, 5282.0, 5354.0, 5374.0, 5355.0, 5510.0, 5666.0, 5387.0, 5557.0, 5425.0, 5257.0, 5267.0, 5428.0 (number of hits: 4)
15	5260	9	1	333	0	-
16	5260	9	1	333	1	5652.0, 5258.0, 5282.0, 5432.0, 5589.0, 5315.0, 5336.0, 5259.0, 5352.0, 5561.0, 5606.0, 5692.0, 5305.0, 5492.0, 5357.0, 5531.0, 5605.0, 5444.0, 5496.0, 5612.0, 5420.0, 5385.0, 5458.0, 5319.0, 5722.0, 5503.0, 5382.0, 5511.0, 5519.0, 5585.0, 5670.0, 5513.0, 5431.0, 5368.0, 5365.0, 5645.0, 5430.0, 5326.0, 5383.0, 5424.0, 5442.0, 5344.0, 5367.0, 5714.0, 5261.0, 5512.0, 5533.0, 5333.0, 5281.0, 5640.0, 5362.0, 5445.0, 5328.0, 5713.0, 5568.0, 5322.0, 5452.0, 5293.0, 5435.0, 5579.0, 5451.0, 5312.0, 5710.0, 5635.0, 5280.0, 5658.0, 5545.0, 5491.0, 5275.0, 5708.0, 5251.0, 5650.0, 5361.0, 5537.0, 5483.0, 5651.0, 5557.0, 5329.0, 5601.0, 5297.0, 5610.0, 5437.0, 5314.0, 5563.0, 5613.0, 5497.0, 5457.0, 5707.0, 5599.0, 5288.0, 5535.0, 5695.0, 5508.0, 5623.0, 5543.0, 5719.0, 5528.0, 5615.0, 5346.0, 5678.0 (number of hits: 4)
17	5260	9	1	333	1	5344.0, 5547.0, 5323.0, 5585.0, 5519.0, 5486.0, 5582.0, 5584.0, 5293.0, 5405.0, 5252.0, 5680.0, 5508.0, 5256.0, 5351.0, 5356.0, 5262.0, 5367.0, 5683.0, 5383.0, 5605.0, 5589.0, 5649.0, 5375.0, 5349.0, 5422.0, 5449.0, 5685.0, 5687.0, 5447.0, 5424.0, 5639.0, 5489.0, 5429.0, 5413.0, 5304.0, 5391.0, 5577.0, 5497.0, 5389.0, 5399.0, 5570.0, 5473.0, 5280.0, 5603.0, 5696.0, 5336.0, 5388.0, 5718.0, 5677.0, 5624.0, 5597.0, 5592.0, 5441.0, 5253.0, 5510.0, 5394.0, 5569.0, 5284.0, 5437.0, 5466.0, 5635.0, 5292.0, 5591.0, 5620.0, 5646.0, 5454.0, 5553.0, 5715.0, 5309.0, 5358.0, 5613.0, 5583.0, 5496.0, 5682.0, 5684.0, 5700.0, 5528.0, 5272.0, 5366.0, 5373.0, 5633.0, 5347.0, 5353.0, 5610.0, 5571.0, 5328.0, 5543.0, 5644.0, 5552.0, 5561.0, 5586.0, 5562.0, 5432.0, 5701.0, 5400.0, 5363.0, 5312.0, 5421.0, 5714.0 (number of hits: 4)
18	5260	9	1	333	1	5382.0, 5642.0, 5630.0, 5368.0, 5619.0, 5705.0, 5641.0, 5628.0, 5390.0, 5575.0, 5652.0, 5723.0, 5583.0, 5447.0, 5477.0, 5405.0, 5474.0, 5548.0, 5384.0, 5435.0, 5636.0, 5251.0, 5520.0, 5536.0, 5351.0, 5370.0, 5699.0, 5470.0, 5337.0, 5502.0, 5372.0, 5516.0, 5313.0, 5445.0, 5268.0, 5603.0, 5299.0, 5300.0, 5655.0, 5519.0, 5574.0, 5687.0, 5328.0, 5365.0, 5605.0, 5637.0, 5467.0, 5411.0, 5409.0, 5440.0, 5252.0, 5322.0, 5677.0, 5613.0, 5404.0, 5481.0, 5444.0, 5324.0, 5464.0, 5640.0,

						5424.0, 5625.0, 5631.0, 5556.0, 5506.0, 5515.0, 5577.0, 5606.0, 5668.0, 5434.0, 5484.0, 5391.0, 5254.0, 5576.0, 5422.0, 5537.0, 5278.0, 5509.0, 5279.0, 5522.0, 5701.0, 5330.0, 5545.0, 5468.0, 5367.0, 5496.0, 5375.0, 5678.0, 5318.0, 5253.0, 5344.0, 5277.0, 5711.0, 5463.0, 5586.0, 5702.0, 5661.0, 5364.0, 5301.0, 5690.0 (number of hits: 5)
19	5260	9	1	333	1	5291.0, 5557.0, 5603.0, 5379.0, 5406.0, 5309.0, 5664.0, 5327.0, 5380.0, 5419.0, 5642.0, 5581.0, 5519.0, 5378.0, 5682.0, 5650.0, 5492.0, 5374.0, 5699.0, 5310.0, 5331.0, 5329.0, 5344.0, 5512.0, 5325.0, 5698.0, 5717.0, 5480.0, 5489.0, 5369.0, 5600.0, 5261.0, 5320.0, 5587.0, 5334.0, 5541.0, 5345.0, 5278.0, 5405.0, 5263.0, 5558.0, 5351.0, 5313.0, 5292.0, 5473.0, 5551.0, 5443.0, 5532.0, 5580.0, 5465.0, 5595.0, 5437.0, 5277.0, 5680.0, 5420.0, 5585.0, 5607.0, 5575.0, 5628.0, 5658.0, 5294.0, 5268.0, 5423.0, 5646.0, 5567.0, 5459.0, 5447.0, 5306.0, 5631.0, 5338.0, 5471.0, 5392.0, 5661.0, 5715.0, 5361.0, 5412.0, 5596.0, 5538.0, 5556.0, 5624.0, 5285.0, 5383.0, 5674.0, 5468.0, 5421.0, 5649.0, 5305.0, 5654.0, 5448.0, 5501.0, 5647.0, 5613.0, 5651.0, 5612.0, 5510.0, 5665.0, 5255.0, 5367.0, 5625.0, 5347.0 (number of hits: 4)
20	5260	9	1	333	1	5531.0, 5450.0, 5673.0, 5456.0, 5700.0, 5486.0, 5527.0, 5683.0, 5677.0, 5628.0, 5337.0, 5506.0, 5639.0, 5307.0, 5448.0, 5711.0, 5651.0, 5563.0, 5405.0, 5593.0, 5335.0, 5363.0, 5330.0, 5598.0, 5584.0, 5596.0, 5407.0, 5431.0, 5592.0, 5423.0, 5257.0, 5574.0, 5426.0, 5629.0, 5343.0, 5417.0, 5640.0, 5253.0, 5674.0, 5625.0, 5525.0, 5649.0, 5396.0, 5285.0, 5275.0, 5588.0, 5327.0, 5406.0, 5342.0, 5571.0, 5599.0, 5634.0, 5512.0, 5476.0, 5421.0, 5274.0, 5704.0, 5720.0, 5627.0, 5389.0, 5281.0, 5690.0, 5336.0, 5624.0, 5692.0, 5404.0, 5272.0, 5646.0, 5499.0, 5425.0, 5615.0, 5703.0, 5632.0, 5722.0, 5617.0, 5338.0, 5642.0, 5522.0, 5694.0, 5400.0, 5698.0, 5377.0, 5453.0, 5321.0, 5345.0, 5384.0, 5479.0, 5430.0, 5369.0, 5633.0, 5458.0, 5401.0, 5659.0, 5519.0, 5509.0, 5660.0, 5340.0, 5344.0, 5523.0, 5552.0 (number of hits: 2)
21	5260	9	1	333	0	-
22	5260	9	1	333	1	5442.0, 5472.0, 5486.0, 5400.0, 5471.0, 5296.0, 5495.0, 5629.0, 5566.0, 5678.0, 5255.0, 5650.0, 5266.0, 5357.0, 5507.0, 5425.0, 5397.0, 5319.0, 5386.0, 5617.0, 5692.0, 5445.0, 5423.0, 5345.0, 5292.0, 5335.0, 5515.0, 5526.0, 5646.0, 5701.0, 5462.0, 5413.0, 5644.0, 5317.0, 5479.0,

						5593.0, 5583.0, 5697.0, 5310.0, 5501.0, 5605.0, 5556.0, 5724.0, 5337.0, 5303.0, 5417.0, 5630.0, 5309.0, 5347.0, 5718.0, 5519.0, 5640.0, 5695.0, 5349.0, 5295.0, 5562.0, 5300.0, 5409.0, 5627.0, 5684.0, 5637.0, 5381.0, 5251.0, 5398.0, 5626.0, 5475.0, 5346.0, 5261.0, 5306.0, 5286.0, 5427.0, 5699.0, 5366.0, 5419.0, 5362.0, 5415.0, 5623.0, 5485.0, 5449.0, 5654.0, 5351.0, 5674.0, 5468.0, 5536.0, 5393.0, 5291.0, 5590.0, 5387.0, 5382.0, 5591.0, 5401.0, 5655.0, 5645.0, 5720.0, 5408.0, 5301.0, 5258.0, 5567.0, 5716.0, 5691.0 (number of hits: 5)
23	5260	9	1	333	1	5447.0, 5267.0, 5662.0, 5580.0, 5468.0, 5461.0, 5265.0, 5528.0, 5470.0, 5503.0, 5407.0, 5706.0, 5275.0, 5581.0, 5703.0, 5377.0, 5318.0, 5534.0, 5592.0, 5542.0, 5438.0, 5348.0, 5565.0, 5340.0, 5305.0, 5283.0, 5482.0, 5702.0, 5548.0, 5687.0, 5605.0, 5511.0, 5289.0, 5544.0, 5394.0, 5674.0, 5429.0, 5670.0, 5707.0, 5469.0, 5711.0, 5286.0, 5537.0, 5378.0, 5505.0, 5268.0, 5631.0, 5312.0, 5432.0, 5698.0, 5462.0, 5426.0, 5724.0, 5543.0, 5654.0, 5510.0, 5413.0, 5512.0, 5326.0, 5684.0, 5370.0, 5567.0, 5518.0, 5514.0, 5443.0, 5298.0, 5425.0, 5466.0, 5552.0, 5646.0, 5633.0, 5650.0, 5596.0, 5285.0, 5558.0, 5501.0, 5640.0, 5569.0, 5460.0, 5530.0, 5562.0, 5585.0, 5262.0, 5694.0, 5346.0, 5659.0, 5290.0, 5489.0, 5375.0, 5339.0, 5704.0, 5606.0, 5619.0, 5563.0, 5436.0, 5362.0, 5493.0, 5667.0, 5708.0, 5630.0 (number of hits: 4)
24	5260	9	1	333	1	5586.0, 5280.0, 5711.0, 5658.0, 5287.0, 5611.0, 5275.0, 5394.0, 5390.0, 5276.0, 5440.0, 5407.0, 5284.0, 5490.0, 5352.0, 5542.0, 5682.0, 5698.0, 5539.0, 5307.0, 5343.0, 5584.0, 5452.0, 5554.0, 5371.0, 5325.0, 5519.0, 5298.0, 5313.0, 5500.0, 5447.0, 5295.0, 5357.0, 5637.0, 5478.0, 5308.0, 5324.0, 5311.0, 5433.0, 5530.0, 5402.0, 5391.0, 5603.0, 5405.0, 5692.0, 5344.0, 5292.0, 5659.0, 5557.0, 5257.0, 5556.0, 5451.0, 5364.0, 5512.0, 5475.0, 5607.0, 5459.0, 5414.0, 5568.0, 5334.0, 5268.0, 5678.0, 5465.0, 5382.0, 5561.0, 5596.0, 5689.0, 5702.0, 5437.0, 5446.0, 5431.0, 5587.0, 5668.0, 5266.0, 5547.0, 5393.0, 5544.0, 5429.0, 5608.0, 5467.0, 5288.0, 5320.0, 5612.0, 5526.0, 5489.0, 5670.0, 5439.0, 5302.0, 5504.0, 5582.0, 5397.0, 5483.0, 5270.0, 5626.0, 5416.0, 5576.0, 5610.0, 5548.0, 5477.0, 5312.0 (number of hits: 3)
25	5260	9	1	333	1	5560.0, 5638.0, 5690.0, 5280.0, 5431.0, 5296.0, 5491.0, 5471.0, 5712.0, 5306.0, 5703.0, 5457.0, 5301.0, 5529.0, 5589.0,

						5381.0, 5535.0, 5714.0, 5349.0, 5610.0, 5609.0, 5304.0, 5688.0, 5302.0, 5711.0, 5524.0, 5426.0, 5270.0, 5354.0, 5267.0, 5436.0, 5384.0, 5287.0, 5546.0, 5335.0, 5271.0, 5346.0, 5435.0, 5622.0, 5421.0, 5487.0, 5681.0, 5570.0, 5284.0, 5278.0, 5596.0, 5516.0, 5362.0, 5395.0, 5496.0, 5432.0, 5603.0, 5534.0, 5573.0, 5368.0, 5399.0, 5673.0, 5394.0, 5611.0, 5618.0, 5522.0, 5408.0, 5347.0, 5444.0, 5653.0, 5517.0, 5635.0, 5322.0, 5687.0, 5391.0, 5632.0, 5365.0, 5451.0, 5500.0, 5548.0, 5543.0, 5314.0, 5422.0, 5324.0, 5260.0, 5549.0, 5412.0, 5607.0, 5344.0, 5489.0, 5698.0, 5537.0, 5706.0, 5585.0, 5259.0, 5363.0, 5600.0, 5401.0, 5700.0, 5367.0, 5720.0, 5473.0, 5697.0, 5620.0, 5621.0 (number of hits: 3)
26	5260	9	1	333	1	5268.0, 5648.0, 5393.0, 5340.0, 5489.0, 5306.0, 5364.0, 5646.0, 5528.0, 5438.0, 5263.0, 5353.0, 5516.0, 5290.0, 5299.0, 5716.0, 5275.0, 5462.0, 5344.0, 5704.0, 5289.0, 5570.0, 5589.0, 5565.0, 5321.0, 5293.0, 5288.0, 5273.0, 5550.0, 5588.0, 5466.0, 5416.0, 5475.0, 5269.0, 5379.0, 5352.0, 5708.0, 5421.0, 5383.0, 5251.0, 5384.0, 5359.0, 5604.0, 5497.0, 5584.0, 5573.0, 5349.0, 5571.0, 5276.0, 5691.0, 5635.0, 5436.0, 5637.0, 5685.0, 5615.0, 5316.0, 5711.0, 5529.0, 5258.0, 5476.0, 5274.0, 5530.0, 5654.0, 5642.0, 5511.0, 5453.0, 5611.0, 5500.0, 5450.0, 5448.0, 5376.0, 5579.0, 5682.0, 5415.0, 5610.0, 5665.0, 5343.0, 5323.0, 5333.0, 5545.0, 5414.0, 5688.0, 5582.0, 5330.0, 5360.0, 5375.0, 5547.0, 5660.0, 5664.0, 5378.0, 5518.0, 5485.0, 5312.0, 5702.0, 5486.0, 5457.0, 5575.0, 5445.0, 5346.0, 5431.0 (number of hits: 5)
27	5260	9	1	333	0	-
28	5260	9	1	333	1	5631.0, 5667.0, 5682.0, 5589.0, 5401.0, 5594.0, 5664.0, 5321.0, 5577.0, 5272.0, 5331.0, 5508.0, 5606.0, 5262.0, 5285.0, 5580.0, 5297.0, 5374.0, 5518.0, 5415.0, 5348.0, 5476.0, 5561.0, 5319.0, 5489.0, 5480.0, 5269.0, 5431.0, 5383.0, 5653.0, 5630.0, 5300.0, 5346.0, 5648.0, 5668.0, 5618.0, 5509.0, 5622.0, 5329.0, 5544.0, 5563.0, 5662.0, 5645.0, 5443.0, 5336.0, 5709.0, 5398.0, 5679.0, 5588.0, 5318.0, 5615.0, 5687.0, 5562.0, 5311.0, 5334.0, 5661.0, 5581.0, 5487.0, 5341.0, 5276.0, 5437.0, 5534.0, 5317.0, 5636.0, 5575.0, 5585.0, 5704.0, 5678.0, 5708.0, 5320.0, 5254.0, 5499.0, 5261.0, 5579.0, 5504.0, 5614.0, 5283.0, 5706.0, 5352.0, 5633.0, 5339.0, 5649.0, 5517.0, 5707.0, 5513.0, 5525.0, 5363.0, 5568.0, 5260.0, 5548.0, 5361.0, 5593.0, 5616.0, 5382.0, 5409.0,

						5410.0, 5569.0, 5355.0, 5703.0, 5364.0 (number of hits: 5)
29	5260	9	1	333	1	5411.0, 5700.0, 5478.0, 5610.0, 5417.0, 5599.0, 5613.0, 5294.0, 5272.0, 5594.0, 5661.0, 5705.0, 5381.0, 5476.0, 5581.0, 5268.0, 5588.0, 5602.0, 5424.0, 5328.0, 5302.0, 5270.0, 5617.0, 5309.0, 5534.0, 5459.0, 5391.0, 5524.0, 5260.0, 5263.0, 5439.0, 5658.0, 5686.0, 5428.0, 5327.0, 5500.0, 5467.0, 5629.0, 5683.0, 5276.0, 5462.0, 5304.0, 5518.0, 5672.0, 5322.0, 5285.0, 5717.0, 5723.0, 5414.0, 5636.0, 5451.0, 5550.0, 5510.0, 5277.0, 5578.0, 5721.0, 5465.0, 5640.0, 5274.0, 5338.0, 5605.0, 5553.0, 5546.0, 5587.0, 5434.0, 5255.0, 5620.0, 5612.0, 5470.0, 5436.0, 5560.0, 5286.0, 5695.0, 5626.0, 5719.0, 5446.0, 5533.0, 5313.0, 5329.0, 5334.0, 5426.0, 5379.0, 5463.0, 5668.0, 5643.0, 5253.0, 5403.0, 5342.0, 5567.0, 5333.0, 5488.0, 5259.0, 5405.0, 5298.0, 5528.0, 5670.0, 5512.0, 5370.0, 5696.0, 5429.0 (number of hits: 6)
30	5260	9	1	333	1	5633.0, 5326.0, 5593.0, 5698.0, 5696.0, 5526.0, 5652.0, 5318.0, 5317.0, 5664.0, 5402.0, 5532.0, 5684.0, 5723.0, 5667.0, 5294.0, 5384.0, 5316.0, 5449.0, 5427.0, 5314.0, 5570.0, 5386.0, 5298.0, 5679.0, 5362.0, 5328.0, 5645.0, 5276.0, 5322.0, 5327.0, 5426.0, 5278.0, 5489.0, 5368.0, 5577.0, 5602.0, 5430.0, 5533.0, 5436.0, 5400.0, 5267.0, 5347.0, 5521.0, 5709.0, 5537.0, 5301.0, 5502.0, 5656.0, 5653.0, 5660.0, 5320.0, 5475.0, 5351.0, 5650.0, 5355.0, 5302.0, 5644.0, 5456.0, 5336.0, 5281.0, 5594.0, 5286.0, 5256.0, 5706.0, 5575.0, 5395.0, 5308.0, 5411.0, 5375.0, 5438.0, 5319.0, 5312.0, 5719.0, 5555.0, 5367.0, 5597.0, 5310.0, 5695.0, 5615.0, 5661.0, 5658.0, 5444.0, 5600.0, 5473.0, 5266.0, 5415.0, 5540.0, 5445.0, 5495.0, 5618.0, 5394.0, 5417.0, 5446.0, 5295.0, 5341.0, 5289.0, 5662.0, 5515.0, 5425.0 (number of hits: 3)

5270 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	86.7 %	60%	Pass
Type 4	30	90 %	60%	Pass
Aggregate (Type1 to 4)	120	94.175 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	96.7 %	70%	Pass

Please refer to the following statistical tables:

5270 MHz, 40 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	67	1	798	1
2	5270	76	1	698	1
3	5270	81	1	658	1
4	5270	57	1	938	1
5	5270	68	1	778	1
6	5270	59	1	898	1
7	5270	72	1	738	1
8	5270	99	1	538	1
9	5270	63	1	838	1
10	5270	62	1	858	1
11	5270	102	1	518	1
12	5270	78	1	678	1
13	5270	65	1	818	1
14	5270	89	1	598	1
15	5270	86	1	618	1
16	5270	56	1	956	1
17	5270	23	1	2390	1
18	5270	79	1	675	1
19	5270	20	1	2757	1
20	5270	19	1	2788	1
21	5270	47	1	1127	1
22	5270	28	1	1912	1
23	5270	85	1	621	1
24	5270	44	1	1201	1
25	5270	22	1	2461	1
26	5270	19	1	2922	1
27	5270	38	1	1401	1
28	5270	18	1	2976	1
29	5270	61	1	879	1
30	5270	25	1	2199	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	24	3.6	215	1
2	5270	24	2.9	225	1
3	5270	23	4.5	153	1
4	5270	24	2.1	202	1
5	5270	25	5	206	1
6	5270	27	3.4	167	1
7	5270	26	3.6	206	1
8	5270	28	3.8	184	1
9	5270	27	2.8	227	1
10	5270	28	3.8	185	1
11	5270	27	3.3	207	1
12	5270	25	4.9	201	1
13	5270	26	4.1	188	1
14	5270	29	3.3	169	1
15	5270	28	4.8	150	1
16	5270	26	3.7	151	1
17	5270	27	4.6	203	1
18	5270	27	2.1	171	1
19	5270	29	2.8	184	1
20	5270	26	1.1	188	1
21	5270	28	3.2	200	1
22	5270	24	3.3	216	1
23	5270	26	2.6	152	1
24	5270	23	4.1	192	1
25	5270	26	2.4	187	1
26	5270	28	2.3	195	1
27	5270	23	1.2	157	1
28	5270	26	1.2	186	1
29	5270	26	3.2	192	1
30	5270	29	2.9	203	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	16	7.9	460	1
2	5270	18	8.6	365	1
3	5270	17	6.5	220	1
4	5270	18	8.9	315	1
5	5270	17	8.4	252	0
6	5270	17	7.6	208	0
7	5270	18	9.3	207	0
8	5270	18	6.8	351	1
9	5270	17	9.6	362	1
10	5270	17	7.3	207	0
11	5270	16	7.4	419	1
12	5270	17	6	308	1
13	5270	18	7.2	383	1
14	5270	18	9.8	308	1
15	5270	18	9.8	379	1
16	5270	18	8.1	384	1
17	5270	16	8.8	263	1
18	5270	18	6.9	463	1
19	5270	17	6.9	473	1
20	5270	18	8.8	250	1
21	5270	18	7.9	456	1
22	5270	16	9.4	243	1
23	5270	17	7.5	477	1
24	5270	16	8.1	477	1
25	5270	18	8.1	340	1
26	5270	16	10	366	1
27	5270	17	6.6	494	1
28	5270	18	8.3	273	1
29	5270	16	9.5	292	1
30	5270	18	9	334	1
Detection Percentage: 86.7 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	16	13	382	1
2	5270	14	11.4	417	1
3	5270	12	15.7	292	1
4	5270	16	13.1	407	1
5	5270	15	16.9	442	1
6	5270	13	16.4	432	1
7	5270	13	15.4	433	1
8	5270	15	16.4	308	1
9	5270	12	16.1	424	1
10	5270	16	15.8	474	1
11	5270	15	13.1	229	1
12	5270	13	17.6	240	1
13	5270	15	11.9	425	1
14	5270	12	11.8	244	1
15	5270	16	13.2	486	1
16	5270	16	15	353	1
17	5270	12	15.9	249	1
18	5270	13	18	486	0
19	5270	14	12.6	333	1
20	5270	14	17.3	234	1
21	5270	13	13.5	481	0
22	5270	15	11.3	436	1
23	5270	15	15.4	422	1
24	5270	12	14.5	287	1
25	5270	12	16.9	233	1
26	5270	14	11.2	237	1
27	5270	12	13.2	424	1
28	5270	15	12.5	426	1
29	5270	14	11.9	451	1
30	5270	12	13.2	481	0
Detection Percentage: 90 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5270	1
2	5270	1
3	5270	1
4	5270	1
5	5270	1
6	5270	1
7	5270	1
8	5270	1
9	5270	1
10	5270	1
11	5253.5	1
12	5257.1	1
13	5257.1	1
14	5259.1	1
15	5258.7	1
16	5258.3	1
17	5254.7	1
18	5259.1	1
19	5256.3	1
20	5254.7	1
21	5285.6	1
22	5283.2	1
23	5287.6	1
24	5285.2	1
25	5284.8	1
26	5282.4	1
27	5286.8	1
28	5285.2	1
29	5287.6	1
30	5287.6	1
Detection Percentage: 100 % (>80%)		

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	16	58.7	1063		0.279893	1
1	3	16	85.5	1022	1144	1.809861	
2	2	16	50.7	1803		2.444659	
3	2	16	98	1971		3.377335	
4	2	16	83.3	1829		4.653169	
5	3	16	97	1546	1411	5.811498	
6	1	16	69.7			6.813705	
7	3	16	55	1698	1563	7.119184	
8	2	16	96.8	1250		8.654325	
9	3	16	96.6	1115	1973	9.054917	
10	1	16	88.8			10.341775	
11	1	16	81.3			11.363959	

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	9	63	1409	1825	0.496423	1
1	2	9	65.5	1545		1.622454	
2	2	9	90.9	1645		3.060011	
3	3	9	54.1	1365	1812	3.665635	
4	1	9	63.8			5.085103	
5	2	9	96.5	1639		6.345588	
6	2	9	82.2	1925		7.648679	
7	1	9	82.8			8.698599	
8	1	9	95.8			10.507442	
9	3	9	99.1	1628	1731	11.062361	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	71.7	1692		0.524413	
1	2	11	75.7	1941		1.024409	
2	2	11	68.5	1594		1.86365	
3	1	11	83.6			2.671791	
4	2	11	51.4	1740		3.219086	
5	1	11	66.9			3.727774	
6	3	11	74.4	1403	1950	4.46249	
7	2	11	79.5	1091		5.515357	
8	2	11	84.5	1884		5.801836	1
9	2	11	60	1070		6.798849	
10	2	11	96.2	1444		7.4057	
11	3	11	87.2	1317	1573	7.766748	
12	1	11	62.6			9.094243	
13	3	11	74.7	1930	1282	9.584888	
14	1	11	54.4			10.063808	
15	3	11	97.5	1835	1661	10.676858	
16	1	11	78.5			11.566227	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	81.6	1274		0.025342	
1	2	13	67.4	1478		1.048853	
2	1	13	87			1.35971	
3	2	13	61.1	1225		2.266424	
4	3	13	86.7	1771	1073	2.926192	
5	1	13	95.4			3.409142	
6	2	13	62.4	1286		4.041265	
7	2	13	84.5	1236		4.562471	
8	1	13	53.5			5.413322	
9	1	13	64.3			5.726217	1
10	2	13	68.3	1916		6.880267	
11	3	13	90.3	1357	1672	7.024392	
12	3	13	94.9	1954	1911	8.072027	
13	2	13	51.9	1070		8.825592	
14	3	13	76.8	1432	1162	8.996438	
15	2	13	82	1656		9.799912	
16	2	13	60.7	1873		10.397396	
17	3	13	83.9	1027	1463	11.268539	
18	2	13	78.3	1258		11.966562	

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	12	91.7	1183		0.192702	1
1	3	12	95.7	1937	1145	0.969705	
2	1	12	76.8			2.018845	
3	3	12	80.1	1705	1251	2.527295	
4	3	12	82.3	1516	1940	3.443083	
5	2	12	90.2	1835		3.92026	
6	1	12	84.7			5.064043	
7	3	12	81.9	1318	1615	5.590832	
8	2	12	68.7	1108		6.125985	
9	2	12	85	1042		6.763686	
10	3	12	76	1584	1039	8.079569	
11	2	12	69.1	1888		8.291733	
12	1	12	80.5			9.270002	
13	3	12	66.3	1251	1500	10.152926	
14	2	12	57.3	1646		11.026602	
15	2	12	71.3	1231		11.978066	

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	11	73.4			0.148372	1
1	1	11	68.4			1.559379	
2	3	11	75.6	1121	1459	3.019467	
3	2	11	59	1610		4.013532	
4	3	11	96.6	1490	1475	5.339332	
5	2	11	91.1	1049		6.96006	
6	1	11	73.1			7.247104	
7	2	11	78	1328		9.574645	
8	2	11	97.3	1119		10.132859	
9	2	11	96.4	1833		11.609584	

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	5	71.4	1676		0.716455	1
1	3	5	67.6	1104	1673	1.114971	
2	3	5	59	1564	1977	2.200153	
3	2	5	89.5	1579		2.75028	
4	2	5	77.6	1911		3.202211	
5	2	5	75.5	1066		4.449344	
6	2	5	79.3	1285		4.900582	
7	1	5	76.8			5.803311	
8	1	5	72.1			6.369458	
9	2	5	65.7	1205		7.065742	
10	2	5	80.7	1439		7.735885	
11	2	5	90.1	1544		8.802727	
12	2	5	92.6	1631		9.63107	
13	1	5	96.8			10.161713	
14	2	5	59.1	1674		10.60979	
15	2	5	82.6	1154		11.574745	

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	7	61.7	1933		0.169152	1
1	2	7	66.6	1111		1.878772	
2	3	7	89.8	1828	1187	2.774706	
3	1	7	98.7			4.081342	
4	3	7	71.8	1293	1699	4.654505	
5	3	7	92.7	1942	1932	6.251393	
6	2	7	87.4	1217		6.980823	
7	2	7	85.9	1360		7.936995	
8	3	7	87.8	1245	1247	9.631932	
9	1	7	91.2			10.848213	
10	2	7	59.4	1125		11.599977	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	60.9			0.113846	1
1	1	13	69.3			1.467656	
2	2	13	50.3	1183		2.707605	
3	2	13	69.8	1993		3.836733	
4	3	13	59.1	1793	1108	4.354157	
5	2	13	96	1173		5.316724	
6	2	13	82.4	1480		6.697416	
7	2	13	71.9	1701		7.122866	
8	2	13	73.9	1227		8.318899	
9	2	13	68	1939		9.762664	
10	2	13	77	1306		10.945557	
11	1	13	72.6			11.595873	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	76.7	1108	1518	1.065534	1
1	1	11	62.5			2.237741	
2	2	11	68.4	1366		3.671383	
3	1	11	99.1			4.400276	
4	2	11	58.3	1478		5.745292	
5	1	11	87.5			7.173316	
6	2	11	99.9	1484		8.687613	
7	3	11	72.4	1513	1716	9.526438	
8	1	11	88			11.94626	

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	5	87	1290		0.131008	
1	2	5	99.2	1883		1.188398	
2	1	5	54.8			2.100464	
3	3	5	63.5	1883	1525	2.731706	
4	2	5	51.8	1328		3.074398	
5	2	5	64.5	1129		3.832441	
6	3	5	72.6	1253	1748	4.616237	
7	1	5	79.6			5.503962	
8	3	5	73.1	1116	1932	5.92236	1
9	2	5	85.5	1810		6.565695	
10	3	5	52.7	1185	1667	7.496707	
11	2	5	84.8	1947		8.350702	
12	2	5	58.7	1321		9.060388	
13	2	5	58.1	1014		9.382948	
14	3	5	66.1	1617	1136	9.98691	
15	2	5	57.7	1187		11.222914	
16	3	5	99.6	1255	1149	11.812624	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	64.4	1446		0.441212	
1	2	14	70.5	1904		1.136358	
2	1	14	98.6			1.558515	
3	3	14	94.4	1661	1564	2.312347	
4	2	14	77.5	1188		2.693313	
5	2	14	69.6	1426		3.357047	
6	1	14	96.2			4.113546	
7	2	14	63.5	1911		4.92428	
8	2	14	70.1	1516		5.655689	
9	1	14	56.7			6.108103	1
10	2	14	72.4	1502		6.385003	
11	2	14	56.8	1257		7.480436	
12	2	14	51.9	1816		8.191757	
13	2	14	74.2	1311		8.802861	
14	2	14	93.2	1201		9.402281	
15	1	14	66.2			9.831924	
16	2	14	76.3	1692		10.64562	
17	2	14	56.3	1656		10.773386	
18	2	14	50.9	1230		11.414148	

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	14	85.7			1.353236	
1	2	14	56.9	1998		2.749875	
2	3	14	50.1	1911	1932	4.201929	
3	3	14	90	1076	1741	5.924421	1
4	3	14	71.6	1258	1643	6.128109	
5	3	14	89.5	1156	1455	8.563513	
6	2	14	79.8	1576		10.150111	
7	1	14	73.6			10.763353	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	64.7			1.121226	1
1	3	19	89.6	1666	1722	1.772494	
2	3	19	76.1	1616	1941	3.154849	
3	1	19	85.8			3.626686	
4	2	19	89.4	1983		5.281125	
5	1	19	92.7			6.743539	
6	2	19	64.5	1847		7.576267	
7	3	19	67.6	1039	1313	9.462939	
8	2	19	94.5	1445		10.558781	
9	2	19	91.2	1592		10.884326	

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	18	68.1	1062		0.026951	1
1	2	18	63.9	1587		1.791058	
2	3	18	94.5	1255	1113	3.092563	
3	1	18	62.4			5.190918	
4	1	18	74.3			6.962371	
5	3	18	81.3	1635	1263	8.566532	
6	2	18	67.6	1980		10.062056	
7	1	18	91.4			10.730236	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	58.7	1734		0.508856	
1	3	17	79	1590	1173	1.185324	
2	1	17	93.7			1.424512	
3	2	17	84.5	1101		2.184136	
4	2	17	60.8	1353		2.902821	
5	1	17	84			3.445071	
6	3	17	57.3	1797	1357	4.072454	
7	2	17	89.1	1615		4.594515	
8	3	17	71.9	1880	1412	5.435578	
9	2	17	82.1	1209		6.310199	1
10	2	17	90.9	1656		6.924796	
11	1	17	82.8			6.981006	
12	3	17	73.3	1138	1616	7.823427	
13	2	17	58.9	1652		8.447654	
14	2	17	89.3	1903		9.396709	
15	2	17	84.2	1071		9.629274	
16	3	17	66.9	1502	1400	10.396307	
17	2	17	91	1655		10.814047	
18	2	17	92.2	1583		11.576315	

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	8	78.1	1782	1109	0.096602	
1	3	8	55.8	1303	1132	1.275275	
2	2	8	61.7	1158		1.566027	
3	2	8	51.3	1063		2.256304	
4	1	8	89.8			2.828847	
5	1	8	91.8			3.64271	
6	3	8	63.6	1291	1871	4.311525	
7	1	8	87.5			5.571573	
8	1	8	56.3			5.92363	1
9	2	8	93.9	1195		6.779739	
10	2	8	87.4	1699		7.421298	
11	1	8	97.6			7.9053	
12	1	8	63.8			8.481895	
13	2	8	64.6	1699		9.383217	
14	3	8	87	1409	1022	10.286618	
15	2	8	80	1619		11.19164	
16	2	8	83.2	1062		11.371193	

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	97.9			0.72805	
1	2	19	92.1	1542		1.275864	
2	2	19	73.7	1499		3.241701	
3	2	19	67	1305		3.831386	
4	2	19	75.2	1652		4.418623	
5	3	19	81.9	1940	1812	5.83819	1
6	2	19	90.9	1414		7.133211	
7	2	19	71.1	1193		8.00068	
8	1	19	59.3			8.889591	
9	2	19	55.2	1130		10.147075	
10	2	19	92.9	1745		11.413073	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	57.1	1514		0.905656	1
1	3	12	52.1	1797	1497	2.437368	
2	2	12	69.7	1343		4.440149	
3	1	12	84.2			5.805004	
4	2	12	68.1	1318		7.114897	
5	1	12	84.5			8.63768	
6	3	12	76.9	1846	1750	10.095454	
7	1	12	94.3			11.765722	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	59.9	1409		0.458136	1
1	1	8	76.5			1.395621	
2	3	8	79.7	1027	1329	2.073169	
3	1	8	85			2.436499	
4	1	8	54.6			3.011875	
5	3	8	92.5	1054	1882	3.943042	
6	3	8	77.7	1253	1533	4.742579	
7	1	8	76.9			5.317338	
8	2	8	69.2	1379		6.45812	
9	3	8	95.7	1887	1891	7.113323	
10	2	8	64.4	1291		8.143929	
11	1	8	73			8.441848	
12	2	8	65	1419		9.480756	
13	2	8	62.8	1627		10.307824	
14	1	8	92.1			10.967675	
15	2	8	94.1	1949		11.371272	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	98.7	1686		0.453024	1
1	2	11	51.7	1662		1.043246	
2	1	11	95.7			1.549422	
3	2	11	78.1	1994		2.966846	
4	3	11	63.1	1232	1408	3.132195	
5	3	11	61.4	1090	1299	4.037415	
6	2	11	61.5	1077		5.100585	
7	2	11	79.5	1638		5.490583	
8	2	11	63.8	1257		6.565444	
9	3	11	85.4	1611	1328	6.96663	
10	1	11	89.9			7.879388	
11	2	11	66.3	1495		8.735091	
12	2	11	99.2	1280		9.548069	
13	3	11	75.2	1274	1083	10.146149	
14	1	11	73.4			10.75943	
15	2	11	75.4	1099		11.806986	

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	17	59.9	1734		0.466075	1
1	3	17	52.8	1840	1925	0.812043	
2	2	17	69.4	1568		2.239679	
3	1	17	75.4			2.963505	
4	2	17	88.6	1731		3.32498	
5	1	17	94			4.275667	
6	2	17	54.3	1657		5.381451	
7	2	17	96.5	1628		6.244948	
8	2	17	81.5	1437		6.490263	
9	2	17	80	1111		7.4447	
10	2	17	90.9	1543		8.010819	
11	1	17	94.6			9.183893	
12	2	17	71.1	1594		9.854753	
13	3	17	93.9	1293	1436	10.667199	
14	2	17	92.5	1065		11.67837	

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	6	82.2	1608	1718	1.048159	
1	2	6	93.2	1586		1.316434	
2	2	6	65.4	1337		3.17998	
3	1	6	51			3.965914	
4	3	6	62	1648	1762	4.961622	
5	3	6	57.8	1657	1852	5.589105	1
6	2	6	67.5	1836		7.054924	
7	2	6	82.1	1121		7.872519	
8	2	6	62.4	1766		9.147581	
9	2	6	67.2	1046		10.320997	
10	3	6	58.9	1019	1053	11.914625	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	58.5	1647	1829	0.09192	
1	1	12	88.4			1.109079	
2	3	12	84.2	1348	1441	2.110184	
3	3	12	80.7	1634	1201	2.749239	
4	3	12	82.6	1542	1367	3.465444	
5	2	12	76.5	1865		4.024897	
6	3	12	88.2	1494	1248	5.21243	
7	3	12	92.7	1043	1504	5.485128	
8	2	12	91.7	1092		6.744339	1
9	2	12	72.5	1406		7.338281	
10	2	12	81.4	1887		8.014385	
11	3	12	94.5	1091	1623	8.716092	
12	2	12	70.9	1195		9.651133	
13	2	12	93.4	1126		9.846179	
14	3	12	76	1470	1083	11.134698	
15	3	12	66.9	1746	1242	11.595011	

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	13	92.3	1469	1979	0.081567	
1	1	13	77.5			1.136993	
2	2	13	81.6	1954		3.087604	
3	2	13	74.1	1099		3.778966	
4	3	13	80.9	1287	1411	5.039656	
5	2	13	70.5	1498		5.648109	1
6	3	13	55.2	1774	1505	6.829981	
7	2	13	82.1	1844		8.416194	
8	3	13	83.4	1741	1390	9.117732	
9	3	13	84.4	1668	1449	10.153958	
10	2	13	83.5	1829		11.574153	

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	19	53	1758		0.343517	
1	3	19	62	1878	1833	1.482231	
2	2	19	53.1	1136		1.970452	
3	1	19	82.3			2.657127	
4	2	19	76.7	1525		3.368135	
5	3	19	91	1731	1509	4.225905	
6	2	19	89.5	1740		5.549974	
7	3	19	78.3	1372	1843	5.868185	1
8	2	19	54.8	1941		7.105487	
9	2	19	98.1	1302		7.493505	
10	2	19	89.4	1098		8.372868	
11	2	19	68.9	1564		8.838195	
12	3	19	88.6	1463	1016	10.29756	
13	1	19	77.5			10.929578	
14	1	19	99.5			11.51926	

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	90.4	1814		0.211992	
1	2	8	98.7	1615		1.150237	
2	3	8	61.6	1119	1566	1.823479	
3	1	8	72.3			3.17628	
4	2	8	51.7	1698		3.875772	
5	3	8	78.2	1338	1581	4.30811	
6	2	8	97	1461		5.150277	
7	2	8	66	1095		6.564584	1
8	2	8	67.9	1178		7.567442	
9	2	8	64.8	1152		7.744527	
10	3	8	94.3	1163	1305	8.784217	
11	1	8	61.8			10.01759	
12	3	8	68	1515	1231	11.067615	
13	3	8	99.2	1453	1322	11.479259	

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	12	76.6	1582		0.226266	
1	3	12	79.6	1327	1044	1.137237	
2	1	12	65.3			2.187416	
3	1	12	65.8			3.080403	
4	2	12	80.4	1087		3.698583	
5	2	12	67.2	1294		4.336389	
6	2	12	79.8	1260		4.959103	
7	3	12	57	1935	1800	5.606341	1
8	2	12	68.4	1268		6.664065	
9	2	12	95.6	1791		7.440054	
10	1	12	52.8			8.536179	
11	2	12	85.5	1378		8.981349	
12	2	12	59	1377		10.021213	
13	2	12	76.3	1863		10.576261	
14	2	12	96.1	1065		11.583138	

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	6	77.8			0.164498	1
1	1	6	91			0.687348	
2	2	6	78.8	1943		1.410351	
3	1	6	75.8			2.312528	
4	2	6	82.3	1562		3.110904	
5	2	6	89.9	1263		3.65955	
6	3	6	94.6	1865	1145	4.650692	
7	3	6	81.3	1770	1509	5.317343	
8	2	6	81.8	1608		5.515003	
9	2	6	80.1	1464		6.302348	
10	2	6	76.1	1681		6.929684	
11	3	6	55	1260	1497	7.785621	
12	2	6	55.8	1299		8.185904	
13	3	6	68.3	1259	1715	9.224261	
14	2	6	55.6	1365		9.906208	
15	2	6	85.6	1506		10.299445	
16	2	6	82.5	1336		10.906378	
17	3	6	59.5	1874	1508	11.635157	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	84			0.564738	1
1	2	6	75.6	1799		1.838062	
2	1	6	56.6			3.00226	
3	1	6	57.1			4.893245	
4	1	6	83.5			7.143589	
5	2	6	86.4	1015		8.800735	
6	3	6	70	1485	1928	9.147952	
7	3	6	51.3	1253	1317	11.469738	

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	5621.0, 5599.0, 5369.0, 5446.0, 5487.0, 5650.0, 5614.0, 5665.0, 5264.0, 5591.0, 5411.0, 5686.0, 5662.0, 5504.0, 5636.0, 5303.0, 5548.0, 5402.0, 5398.0, 5530.0, 5265.0, 5638.0, 5288.0, 5577.0, 5551.0, 5477.0, 5612.0, 5361.0, 5503.0, 5566.0, 5593.0, 5254.0, 5426.0, 5696.0, 5618.0, 5416.0, 5386.0, 5681.0, 5359.0, 5384.0, 5628.0, 5348.0, 5533.0, 5712.0, 5601.0, 5685.0, 5709.0, 5594.0, 5423.0, 5507.0, 5718.0, 5344.0, 5611.0, 5419.0, 5266.0, 5333.0, 5489.0, 5479.0, 5642.0, 5633.0, 5528.0, 5375.0, 5378.0, 5255.0, 5558.0, 5356.0, 5640.0, 5661.0, 5329.0, 5414.0, 5692.0, 5267.0, 5271.0, 5400.0, 5582.0, 5314.0, 5647.0, 5639.0, 5317.0, 5403.0, 5515.0, 5260.0, 5285.0, 5717.0, 5325.0, 5655.0, 5607.0, 5389.0, 5291.0, 5408.0, 5559.0, 5679.0, 5270.0, 5469.0, 5435.0, 5331.0, 5572.0, 5604.0, 5292.0, 5490.0 (number of hits: 11)
2	5270	9	1	333	1	5642.0, 5619.0, 5551.0, 5456.0, 5384.0, 5631.0, 5609.0, 5570.0, 5360.0, 5666.0, 5637.0, 5527.0, 5483.0, 5589.0, 5435.0, 5617.0, 5598.0, 5625.0, 5455.0, 5531.0, 5450.0, 5508.0, 5569.0, 5497.0, 5381.0, 5495.0, 5522.0, 5465.0, 5301.0, 5257.0, 5632.0, 5633.0, 5472.0, 5330.0, 5518.0, 5403.0, 5320.0, 5502.0, 5528.0, 5393.0, 5382.0, 5659.0, 5377.0, 5452.0, 5639.0, 5636.0, 5520.0, 5720.0, 5461.0, 5503.0, 5464.0, 5468.0, 5315.0, 5682.0, 5325.0, 5567.0, 5467.0, 5458.0, 5288.0, 5322.0, 5425.0, 5470.0, 5685.0, 5362.0, 5538.0, 5313.0, 5415.0, 5585.0, 5306.0, 5601.0, 5447.0, 5359.0, 5295.0, 5289.0, 5474.0, 5702.0, 5568.0, 5417.0, 5645.0, 5328.0, 5263.0, 5332.0, 5427.0, 5449.0, 5370.0, 5610.0, 5327.0, 5321.0, 5693.0, 5336.0, 5696.0, 5271.0, 5539.0, 5302.0, 5251.0, 5364.0, 5398.0, 5608.0, 5426.0, 5679.0 (number of hits: 6)
3	5270	9	1	333	1	5405.0, 5448.0, 5420.0, 5284.0, 5453.0, 5339.0, 5289.0, 5261.0, 5474.0, 5423.0, 5573.0, 5613.0, 5300.0, 5632.0, 5428.0, 5669.0, 5624.0, 5544.0, 5589.0, 5280.0, 5639.0, 5658.0, 5485.0, 5501.0, 5694.0, 5372.0, 5438.0, 5546.0, 5651.0, 5335.0, 5709.0, 5635.0, 5525.0, 5440.0, 5452.0, 5514.0, 5700.0, 5389.0, 5287.0, 5368.0, 5607.0, 5314.0, 5530.0, 5412.0, 5476.0, 5306.0, 5722.0, 5604.0, 5490.0, 5655.0, 5540.0, 5363.0, 5646.0, 5643.0, 5471.0,

						5556.0, 5484.0, 5597.0, 5321.0, 5404.0, 5715.0, 5541.0, 5585.0, 5318.0, 5696.0, 5351.0, 5361.0, 5410.0, 5466.0, 5605.0, 5588.0, 5433.0, 5659.0, 5294.0, 5503.0, 5386.0, 5325.0, 5414.0, 5441.0, 5463.0, 5365.0, 5479.0, 5432.0, 5564.0, 5678.0, 5654.0, 5464.0, 5401.0, 5283.0, 5273.0, 5515.0, 5455.0, 5290.0, 5603.0, 5499.0, 5507.0, 5687.0, 5354.0, 5512.0, 5299.0 (number of hits: 7)
4	5270	9	1	333	1	5456.0, 5535.0, 5573.0, 5578.0, 5614.0, 5467.0, 5571.0, 5363.0, 5667.0, 5268.0, 5618.0, 5713.0, 5260.0, 5380.0, 5460.0, 5584.0, 5559.0, 5488.0, 5629.0, 5661.0, 5333.0, 5637.0, 5602.0, 5503.0, 5303.0, 5522.0, 5619.0, 5589.0, 5567.0, 5388.0, 5485.0, 5466.0, 5320.0, 5332.0, 5426.0, 5610.0, 5703.0, 5312.0, 5340.0, 5660.0, 5586.0, 5382.0, 5508.0, 5330.0, 5672.0, 5632.0, 5299.0, 5447.0, 5346.0, 5424.0, 5512.0, 5455.0, 5490.0, 5563.0, 5686.0, 5565.0, 5708.0, 5427.0, 5423.0, 5659.0, 5630.0, 5290.0, 5359.0, 5575.0, 5462.0, 5274.0, 5656.0, 5301.0, 5349.0, 5593.0, 5368.0, 5640.0, 5680.0, 5255.0, 5569.0, 5717.0, 5556.0, 5638.0, 5429.0, 5577.0, 5425.0, 5579.0, 5418.0, 5309.0, 5337.0, 5360.0, 5329.0, 5701.0, 5361.0, 5608.0, 5530.0, 5682.0, 5509.0, 5695.0, 5576.0, 5439.0, 5646.0, 5480.0, 5443.0, 5487.0 (number of hits: 4)
5	5270	9	1	333	1	5279.0, 5325.0, 5343.0, 5448.0, 5335.0, 5546.0, 5497.0, 5664.0, 5512.0, 5476.0, 5515.0, 5633.0, 5636.0, 5420.0, 5723.0, 5381.0, 5407.0, 5568.0, 5288.0, 5399.0, 5623.0, 5457.0, 5319.0, 5290.0, 5505.0, 5462.0, 5454.0, 5340.0, 5624.0, 5644.0, 5609.0, 5410.0, 5351.0, 5263.0, 5666.0, 5271.0, 5553.0, 5251.0, 5260.0, 5547.0, 5414.0, 5718.0, 5625.0, 5590.0, 5649.0, 5534.0, 5610.0, 5451.0, 5461.0, 5667.0, 5711.0, 5373.0, 5601.0, 5716.0, 5680.0, 5387.0, 5620.0, 5278.0, 5455.0, 5685.0, 5576.0, 5691.0, 5301.0, 5498.0, 5575.0, 5349.0, 5704.0, 5416.0, 5678.0, 5517.0, 5464.0, 5507.0, 5637.0, 5679.0, 5587.0, 5501.0, 5345.0, 5303.0, 5376.0, 5474.0, 5693.0, 5482.0, 5412.0, 5397.0, 5491.0, 5358.0, 5468.0, 5648.0, 5323.0, 5449.0, 5630.0, 5380.0, 5404.0, 5669.0, 5366.0, 5341.0, 5270.0, 5597.0, 5401.0, 5688.0 (number of hits: 8)
6	5270	9	1	333	1	5445.0, 5474.0, 5579.0, 5495.0, 5714.0, 5689.0, 5536.0, 5288.0, 5512.0, 5411.0, 5605.0, 5339.0, 5521.0, 5616.0, 5354.0, 5553.0, 5329.0, 5582.0, 5496.0, 5535.0, 5263.0, 5417.0, 5704.0, 5608.0, 5490.0, 5560.0, 5676.0, 5307.0, 5635.0, 5358.0, 5639.0, 5303.0, 5309.0, 5709.0, 5256.0,

						5396.0, 5416.0, 5431.0, 5325.0, 5522.0, 5469.0, 5707.0, 5444.0, 5446.0, 5706.0, 5694.0, 5365.0, 5612.0, 5611.0, 5619.0, 5618.0, 5710.0, 5336.0, 5643.0, 5717.0, 5661.0, 5545.0, 5533.0, 5345.0, 5568.0, 5361.0, 5600.0, 5364.0, 5351.0, 5295.0, 5439.0, 5327.0, 5352.0, 5654.0, 5451.0, 5254.0, 5278.0, 5378.0, 5465.0, 5315.0, 5563.0, 5596.0, 5298.0, 5461.0, 5391.0, 5480.0, 5501.0, 5500.0, 5530.0, 5308.0, 5350.0, 5572.0, 5515.0, 5693.0, 5623.0, 5369.0, 5403.0, 5261.0, 5402.0, 5627.0, 5492.0, 5505.0, 5305.0, 5453.0, 5665.0 (number of hits: 6)
7	5270	9	1	333	1	5404.0, 5349.0, 5615.0, 5639.0, 5518.0, 5339.0, 5502.0, 5547.0, 5503.0, 5283.0, 5592.0, 5381.0, 5298.0, 5304.0, 5616.0, 5650.0, 5478.0, 5523.0, 5286.0, 5429.0, 5500.0, 5601.0, 5386.0, 5690.0, 5398.0, 5324.0, 5594.0, 5708.0, 5510.0, 5372.0, 5570.0, 5467.0, 5614.0, 5382.0, 5473.0, 5675.0, 5505.0, 5560.0, 5395.0, 5563.0, 5311.0, 5620.0, 5461.0, 5512.0, 5321.0, 5344.0, 5263.0, 5618.0, 5720.0, 5442.0, 5595.0, 5370.0, 5712.0, 5335.0, 5445.0, 5494.0, 5487.0, 5338.0, 5625.0, 5396.0, 5414.0, 5591.0, 5661.0, 5318.0, 5526.0, 5706.0, 5465.0, 5719.0, 5506.0, 5426.0, 5431.0, 5643.0, 5545.0, 5721.0, 5359.0, 5373.0, 5664.0, 5673.0, 5365.0, 5299.0, 5684.0, 5627.0, 5610.0, 5410.0, 5430.0, 5679.0, 5617.0, 5687.0, 5371.0, 5451.0, 5513.0, 5291.0, 5646.0, 5511.0, 5507.0, 5533.0, 5678.0, 5662.0, 5683.0, 5270.0 (number of hits: 4)
8	5270	9	1	333	1	5328.0, 5623.0, 5384.0, 5284.0, 5357.0, 5312.0, 5279.0, 5630.0, 5452.0, 5509.0, 5556.0, 5521.0, 5302.0, 5506.0, 5272.0, 5320.0, 5555.0, 5450.0, 5273.0, 5648.0, 5498.0, 5518.0, 5620.0, 5584.0, 5698.0, 5583.0, 5373.0, 5637.0, 5627.0, 5251.0, 5515.0, 5589.0, 5590.0, 5383.0, 5640.0, 5655.0, 5330.0, 5338.0, 5574.0, 5299.0, 5403.0, 5549.0, 5463.0, 5580.0, 5500.0, 5396.0, 5492.0, 5402.0, 5466.0, 5455.0, 5413.0, 5364.0, 5715.0, 5660.0, 5718.0, 5628.0, 5326.0, 5311.0, 5657.0, 5600.0, 5277.0, 5666.0, 5527.0, 5288.0, 5676.0, 5475.0, 5474.0, 5354.0, 5502.0, 5494.0, 5371.0, 5377.0, 5318.0, 5563.0, 5710.0, 5394.0, 5616.0, 5443.0, 5256.0, 5398.0, 5679.0, 5596.0, 5259.0, 5367.0, 5564.0, 5412.0, 5351.0, 5612.0, 5460.0, 5258.0, 5693.0, 5395.0, 5529.0, 5341.0, 5465.0, 5516.0, 5568.0, 5355.0, 5615.0, 5345.0 (number of hits: 10)
9	5270	9	1	333	1	5327.0, 5505.0, 5495.0, 5299.0, 5346.0, 5475.0, 5601.0, 5438.0, 5476.0, 5258.0, 5552.0, 5666.0, 5700.0, 5400.0, 5680.0,

						5541.0, 5647.0, 5521.0, 5415.0, 5559.0, 5719.0, 5456.0, 5514.0, 5348.0, 5722.0, 5409.0, 5255.0, 5370.0, 5644.0, 5418.0, 5354.0, 5707.0, 5711.0, 5608.0, 5503.0, 5279.0, 5513.0, 5689.0, 5460.0, 5361.0, 5424.0, 5683.0, 5465.0, 5366.0, 5550.0, 5395.0, 5282.0, 5622.0, 5555.0, 5606.0, 5619.0, 5662.0, 5462.0, 5526.0, 5547.0, 5663.0, 5451.0, 5345.0, 5410.0, 5724.0, 5642.0, 5445.0, 5532.0, 5452.0, 5254.0, 5325.0, 5638.0, 5260.0, 5674.0, 5485.0, 5304.0, 5434.0, 5720.0, 5383.0, 5439.0, 5530.0, 5308.0, 5312.0, 5610.0, 5427.0, 5494.0, 5678.0, 5309.0, 5710.0, 5511.0, 5672.0, 5471.0, 5316.0, 5292.0, 5626.0, 5290.0, 5684.0, 5265.0, 5523.0, 5467.0, 5673.0, 5450.0, 5670.0, 5498.0, 5712.0 (number of hits: 7)
10	5270	9	1	333	1	5534.0, 5485.0, 5456.0, 5596.0, 5658.0, 5296.0, 5521.0, 5723.0, 5380.0, 5312.0, 5347.0, 5368.0, 5597.0, 5318.0, 5308.0, 5638.0, 5328.0, 5274.0, 5701.0, 5516.0, 5275.0, 5651.0, 5713.0, 5371.0, 5268.0, 5684.0, 5353.0, 5563.0, 5372.0, 5410.0, 5686.0, 5581.0, 5592.0, 5676.0, 5504.0, 5338.0, 5306.0, 5255.0, 5301.0, 5673.0, 5708.0, 5256.0, 5537.0, 5648.0, 5644.0, 5654.0, 5447.0, 5436.0, 5544.0, 5575.0, 5459.0, 5506.0, 5282.0, 5700.0, 5270.0, 5536.0, 5720.0, 5531.0, 5335.0, 5342.0, 5671.0, 5440.0, 5624.0, 5367.0, 5365.0, 5603.0, 5439.0, 5428.0, 5444.0, 5349.0, 5604.0, 5438.0, 5610.0, 5635.0, 5286.0, 5407.0, 5350.0, 5360.0, 5541.0, 5507.0, 5632.0, 5379.0, 5556.0, 5553.0, 5445.0, 5659.0, 5412.0, 5320.0, 5478.0, 5267.0, 5646.0, 5433.0, 5609.0, 5269.0, 5622.0, 5389.0, 5672.0, 5321.0, 5690.0, 5662.0 (number of hits: 10)
11	5270	9	1	333	1	5327.0, 5696.0, 5562.0, 5627.0, 5309.0, 5312.0, 5326.0, 5533.0, 5510.0, 5693.0, 5490.0, 5540.0, 5615.0, 5607.0, 5329.0, 5308.0, 5676.0, 5622.0, 5419.0, 5550.0, 5266.0, 5382.0, 5581.0, 5489.0, 5445.0, 5255.0, 5687.0, 5596.0, 5715.0, 5437.0, 5586.0, 5620.0, 5720.0, 5697.0, 5297.0, 5333.0, 5536.0, 5417.0, 5361.0, 5426.0, 5439.0, 5420.0, 5718.0, 5305.0, 5352.0, 5488.0, 5444.0, 5407.0, 5348.0, 5527.0, 5521.0, 5452.0, 5658.0, 5545.0, 5462.0, 5278.0, 5532.0, 5643.0, 5302.0, 5409.0, 5585.0, 5633.0, 5640.0, 5573.0, 5666.0, 5289.0, 5706.0, 5564.0, 5603.0, 5482.0, 5369.0, 5704.0, 5516.0, 5614.0, 5384.0, 5386.0, 5701.0, 5354.0, 5485.0, 5501.0, 5322.0, 5364.0, 5500.0, 5310.0, 5254.0, 5295.0, 5678.0, 5505.0, 5551.0, 5493.0, 5498.0, 5642.0, 5390.0, 5383.0, 5378.0, 5324.0, 5424.0, 5497.0, 5440.0, 5713.0

						(number of hits: 5)
12	5270	9	1	333	1	5528.0, 5388.0, 5330.0, 5705.0, 5407.0, 5618.0, 5571.0, 5715.0, 5698.0, 5564.0, 5449.0, 5662.0, 5269.0, 5491.0, 5578.0, 5514.0, 5530.0, 5307.0, 5362.0, 5254.0, 5562.0, 5508.0, 5701.0, 5525.0, 5364.0, 5411.0, 5605.0, 5427.0, 5250.0, 5496.0, 5367.0, 5696.0, 5333.0, 5473.0, 5339.0, 5589.0, 5638.0, 5699.0, 5292.0, 5287.0, 5451.0, 5619.0, 5320.0, 5408.0, 5334.0, 5389.0, 5521.0, 5691.0, 5466.0, 5425.0, 5459.0, 5576.0, 5387.0, 5312.0, 5524.0, 5532.0, 5402.0, 5299.0, 5673.0, 5512.0, 5379.0, 5440.0, 5623.0, 5450.0, 5656.0, 5501.0, 5423.0, 5363.0, 5352.0, 5275.0, 5644.0, 5658.0, 5654.0, 5258.0, 5256.0, 5690.0, 5712.0, 5429.0, 5468.0, 5392.0, 5286.0, 5585.0, 5581.0, 5288.0, 5694.0, 5372.0, 5599.0, 5489.0, 5430.0, 5637.0, 5414.0, 5343.0, 5507.0, 5340.0, 5337.0, 5603.0, 5687.0, 5482.0, 5277.0, 5544.0 (number of hits: 10)
13	5270	9	1	333	1	5477.0, 5462.0, 5658.0, 5316.0, 5635.0, 5370.0, 5293.0, 5301.0, 5313.0, 5411.0, 5501.0, 5322.0, 5259.0, 5545.0, 5641.0, 5522.0, 5347.0, 5495.0, 5664.0, 5283.0, 5681.0, 5256.0, 5630.0, 5539.0, 5268.0, 5590.0, 5430.0, 5267.0, 5433.0, 5328.0, 5665.0, 5270.0, 5617.0, 5620.0, 5461.0, 5465.0, 5276.0, 5696.0, 5567.0, 5378.0, 5631.0, 5397.0, 5581.0, 5719.0, 5536.0, 5618.0, 5470.0, 5639.0, 5579.0, 5445.0, 5504.0, 5582.0, 5537.0, 5607.0, 5385.0, 5398.0, 5530.0, 5354.0, 5408.0, 5447.0, 5505.0, 5707.0, 5642.0, 5399.0, 5538.0, 5599.0, 5714.0, 5303.0, 5340.0, 5429.0, 5669.0, 5492.0, 5324.0, 5548.0, 5451.0, 5416.0, 5393.0, 5307.0, 5497.0, 5541.0, 5403.0, 5560.0, 5452.0, 5371.0, 5715.0, 5455.0, 5609.0, 5659.0, 5279.0, 5413.0, 5352.0, 5334.0, 5410.0, 5628.0, 5415.0, 5675.0, 5291.0, 5329.0, 5494.0, 5302.0 (number of hits: 8)
14	5270	9	1	333	1	5669.0, 5602.0, 5625.0, 5670.0, 5425.0, 5383.0, 5395.0, 5501.0, 5553.0, 5496.0, 5686.0, 5722.0, 5471.0, 5258.0, 5269.0, 5563.0, 5616.0, 5673.0, 5645.0, 5510.0, 5646.0, 5430.0, 5313.0, 5609.0, 5704.0, 5519.0, 5714.0, 5619.0, 5614.0, 5300.0, 5297.0, 5406.0, 5294.0, 5378.0, 5384.0, 5393.0, 5336.0, 5415.0, 5432.0, 5398.0, 5648.0, 5332.0, 5367.0, 5695.0, 5397.0, 5353.0, 5544.0, 5477.0, 5290.0, 5351.0, 5690.0, 5401.0, 5350.0, 5298.0, 5392.0, 5684.0, 5580.0, 5346.0, 5667.0, 5572.0, 5448.0, 5273.0, 5295.0, 5426.0, 5502.0, 5637.0, 5340.0, 5314.0, 5265.0, 5375.0, 5270.0, 5585.0, 5643.0, 5546.0, 5323.0, 5624.0, 5538.0, 5339.0, 5582.0, 5647.0,

						5474.0, 5266.0, 5334.0, 5685.0, 5526.0, 5255.0, 5528.0, 5370.0, 5463.0, 5419.0, 5458.0, 5327.0, 5511.0, 5574.0, 5436.0, 5651.0, 5292.0, 5522.0, 5719.0, 5517.0 (number of hits: 7)
15	5270	9	1	333	0	-
16	5270	9	1	333	1	5665.0, 5330.0, 5453.0, 5697.0, 5469.0, 5545.0, 5460.0, 5308.0, 5407.0, 5677.0, 5426.0, 5464.0, 5422.0, 5544.0, 5655.0, 5585.0, 5502.0, 5577.0, 5267.0, 5701.0, 5260.0, 5604.0, 5463.0, 5634.0, 5263.0, 5313.0, 5405.0, 5395.0, 5512.0, 5633.0, 5329.0, 5638.0, 5433.0, 5305.0, 5255.0, 5415.0, 5601.0, 5613.0, 5475.0, 5666.0, 5489.0, 5635.0, 5444.0, 5353.0, 5586.0, 5394.0, 5450.0, 5526.0, 5649.0, 5673.0, 5346.0, 5321.0, 5449.0, 5582.0, 5391.0, 5663.0, 5376.0, 5275.0, 5371.0, 5332.0, 5611.0, 5660.0, 5476.0, 5369.0, 5592.0, 5598.0, 5438.0, 5399.0, 5294.0, 5264.0, 5360.0, 5720.0, 5687.0, 5383.0, 5303.0, 5641.0, 5705.0, 5570.0, 5268.0, 5311.0, 5708.0, 5499.0, 5495.0, 5400.0, 5513.0, 5493.0, 5528.0, 5501.0, 5583.0, 5345.0, 5457.0, 5584.0, 5280.0, 5558.0, 5543.0, 5491.0, 5506.0, 5314.0, 5591.0, 5511.0 (number of hits: 8)
17	5270	9	1	333	1	5325.0, 5371.0, 5723.0, 5322.0, 5639.0, 5589.0, 5561.0, 5378.0, 5480.0, 5360.0, 5409.0, 5509.0, 5572.0, 5695.0, 5705.0, 5584.0, 5255.0, 5365.0, 5635.0, 5708.0, 5366.0, 5419.0, 5550.0, 5704.0, 5328.0, 5649.0, 5518.0, 5356.0, 5680.0, 5597.0, 5703.0, 5677.0, 5637.0, 5423.0, 5567.0, 5270.0, 5602.0, 5666.0, 5707.0, 5575.0, 5643.0, 5503.0, 5342.0, 5427.0, 5333.0, 5683.0, 5296.0, 5338.0, 5373.0, 5646.0, 5668.0, 5700.0, 5396.0, 5670.0, 5653.0, 5691.0, 5488.0, 5299.0, 5506.0, 5382.0, 5465.0, 5679.0, 5386.0, 5357.0, 5394.0, 5267.0, 5457.0, 5417.0, 5321.0, 5714.0, 5412.0, 5580.0, 5671.0, 5644.0, 5318.0, 5610.0, 5551.0, 5582.0, 5581.0, 5310.0, 5404.0, 5380.0, 5505.0, 5548.0, 5598.0, 5282.0, 5537.0, 5348.0, 5332.0, 5389.0, 5407.0, 5678.0, 5402.0, 5606.0, 5292.0, 5346.0, 5544.0, 5352.0, 5439.0, 5640.0 (number of hits: 4)
18	5270	9	1	333	1	5600.0, 5617.0, 5616.0, 5292.0, 5456.0, 5554.0, 5259.0, 5639.0, 5464.0, 5381.0, 5704.0, 5387.0, 5316.0, 5380.0, 5626.0, 5490.0, 5492.0, 5594.0, 5530.0, 5469.0, 5593.0, 5627.0, 5560.0, 5541.0, 5614.0, 5388.0, 5279.0, 5566.0, 5445.0, 5289.0, 5399.0, 5488.0, 5395.0, 5537.0, 5577.0, 5273.0, 5581.0, 5263.0, 5478.0, 5453.0, 5321.0, 5347.0, 5597.0, 5591.0, 5339.0, 5296.0, 5486.0, 5324.0, 5275.0, 5463.0, 5544.0, 5629.0, 5364.0, 5466.0, 5484.0,

						5496.0, 5656.0, 5284.0, 5550.0, 5403.0, 5625.0, 5482.0, 5615.0, 5410.0, 5722.0, 5318.0, 5666.0, 5349.0, 5277.0, 5724.0, 5353.0, 5251.0, 5368.0, 5376.0, 5632.0, 5553.0, 5257.0, 5565.0, 5308.0, 5682.0, 5641.0, 5515.0, 5355.0, 5356.0, 5290.0, 5703.0, 5552.0, 5505.0, 5491.0, 5578.0, 5590.0, 5470.0, 5717.0, 5699.0, 5428.0, 5521.0, 5338.0, 5653.0, 5518.0, 5282.0 (number of hits: 11)
19	5270	9	1	333	1	5450.0, 5558.0, 5547.0, 5291.0, 5459.0, 5379.0, 5356.0, 5475.0, 5487.0, 5670.0, 5535.0, 5501.0, 5303.0, 5326.0, 5419.0, 5265.0, 5622.0, 5469.0, 5268.0, 5438.0, 5296.0, 5447.0, 5568.0, 5620.0, 5478.0, 5331.0, 5299.0, 5688.0, 5500.0, 5260.0, 5559.0, 5542.0, 5585.0, 5397.0, 5422.0, 5658.0, 5610.0, 5389.0, 5509.0, 5346.0, 5485.0, 5347.0, 5390.0, 5614.0, 5471.0, 5719.0, 5724.0, 5710.0, 5685.0, 5522.0, 5410.0, 5388.0, 5290.0, 5305.0, 5313.0, 5704.0, 5276.0, 5404.0, 5428.0, 5405.0, 5655.0, 5639.0, 5322.0, 5647.0, 5646.0, 5272.0, 5682.0, 5595.0, 5631.0, 5591.0, 5362.0, 5306.0, 5402.0, 5277.0, 5378.0, 5456.0, 5652.0, 5650.0, 5451.0, 5311.0, 5668.0, 5384.0, 5293.0, 5408.0, 5444.0, 5707.0, 5363.0, 5376.0, 5282.0, 5416.0, 5570.0, 5330.0, 5540.0, 5497.0, 5253.0, 5601.0, 5473.0, 5587.0, 5560.0, 5696.0 (number of hits: 8)
20	5270	9	1	333	1	5372.0, 5473.0, 5672.0, 5699.0, 5430.0, 5399.0, 5383.0, 5463.0, 5423.0, 5516.0, 5566.0, 5510.0, 5378.0, 5543.0, 5617.0, 5582.0, 5519.0, 5620.0, 5406.0, 5522.0, 5318.0, 5715.0, 5350.0, 5589.0, 5524.0, 5468.0, 5442.0, 5586.0, 5434.0, 5343.0, 5636.0, 5705.0, 5254.0, 5559.0, 5537.0, 5469.0, 5259.0, 5470.0, 5565.0, 5723.0, 5467.0, 5464.0, 5298.0, 5336.0, 5534.0, 5441.0, 5357.0, 5432.0, 5592.0, 5385.0, 5282.0, 5370.0, 5583.0, 5256.0, 5360.0, 5558.0, 5366.0, 5637.0, 5269.0, 5584.0, 5669.0, 5272.0, 5493.0, 5477.0, 5712.0, 5425.0, 5693.0, 5471.0, 5679.0, 5644.0, 5402.0, 5270.0, 5722.0, 5661.0, 5428.0, 5667.0, 5386.0, 5444.0, 5634.0, 5346.0, 5578.0, 5275.0, 5301.0, 5499.0, 5703.0, 5284.0, 5261.0, 5292.0, 5675.0, 5436.0, 5575.0, 5608.0, 5320.0, 5457.0, 5710.0, 5295.0, 5443.0, 5535.0, 5680.0, 5521.0 (number of hits: 10)
21	5270	9	1	333	1	5451.0, 5661.0, 5594.0, 5528.0, 5492.0, 5547.0, 5619.0, 5496.0, 5278.0, 5601.0, 5337.0, 5309.0, 5429.0, 5457.0, 5574.0, 5554.0, 5546.0, 5701.0, 5250.0, 5288.0, 5403.0, 5526.0, 5555.0, 5585.0, 5267.0, 5329.0, 5285.0, 5316.0, 5335.0, 5450.0, 5368.0, 5685.0, 5646.0, 5542.0, 5434.0,

						5613.0, 5518.0, 5651.0, 5333.0, 5510.0, 5351.0, 5420.0, 5582.0, 5489.0, 5648.0, 5304.0, 5592.0, 5261.0, 5326.0, 5645.0, 5362.0, 5568.0, 5612.0, 5339.0, 5478.0, 5688.0, 5694.0, 5634.0, 5566.0, 5549.0, 5522.0, 5653.0, 5605.0, 5643.0, 5703.0, 5545.0, 5468.0, 5378.0, 5544.0, 5280.0, 5440.0, 5436.0, 5314.0, 5256.0, 5687.0, 5675.0, 5662.0, 5264.0, 5464.0, 5352.0, 5691.0, 5373.0, 5384.0, 5520.0, 5287.0, 5617.0, 5576.0, 5386.0, 5338.0, 5635.0, 5666.0, 5442.0, 5570.0, 5332.0, 5710.0, 5293.0, 5700.0, 5348.0, 5680.0, 5415.0 (number of hits: 10)
22	5270	9	1	333	1	5609.0, 5520.0, 5325.0, 5587.0, 5405.0, 5308.0, 5645.0, 5715.0, 5518.0, 5626.0, 5279.0, 5301.0, 5349.0, 5371.0, 5315.0, 5313.0, 5708.0, 5373.0, 5366.0, 5296.0, 5458.0, 5341.0, 5352.0, 5720.0, 5360.0, 5550.0, 5652.0, 5571.0, 5444.0, 5379.0, 5545.0, 5433.0, 5604.0, 5475.0, 5277.0, 5400.0, 5573.0, 5657.0, 5623.0, 5484.0, 5521.0, 5650.0, 5399.0, 5601.0, 5424.0, 5463.0, 5459.0, 5699.0, 5339.0, 5624.0, 5281.0, 5473.0, 5546.0, 5414.0, 5364.0, 5499.0, 5378.0, 5509.0, 5701.0, 5280.0, 5439.0, 5617.0, 5261.0, 5272.0, 5427.0, 5558.0, 5503.0, 5703.0, 5323.0, 5628.0, 5386.0, 5674.0, 5404.0, 5382.0, 5705.0, 5273.0, 5481.0, 5397.0, 5649.0, 5547.0, 5464.0, 5679.0, 5345.0, 5616.0, 5495.0, 5359.0, 5594.0, 5659.0, 5694.0, 5328.0, 5508.0, 5320.0, 5655.0, 5539.0, 5263.0, 5485.0, 5426.0, 5358.0, 5556.0, 5291.0 (number of hits: 8)
23	5270	9	1	333	1	5580.0, 5666.0, 5621.0, 5477.0, 5254.0, 5618.0, 5291.0, 5654.0, 5712.0, 5351.0, 5538.0, 5331.0, 5662.0, 5286.0, 5419.0, 5348.0, 5611.0, 5379.0, 5589.0, 5609.0, 5339.0, 5297.0, 5340.0, 5568.0, 5531.0, 5603.0, 5282.0, 5486.0, 5311.0, 5443.0, 5617.0, 5488.0, 5271.0, 5414.0, 5551.0, 5509.0, 5533.0, 5700.0, 5353.0, 5255.0, 5375.0, 5498.0, 5385.0, 5553.0, 5648.0, 5691.0, 5391.0, 5281.0, 5389.0, 5313.0, 5723.0, 5342.0, 5660.0, 5683.0, 5702.0, 5647.0, 5369.0, 5299.0, 5719.0, 5525.0, 5421.0, 5338.0, 5319.0, 5490.0, 5650.0, 5659.0, 5447.0, 5455.0, 5575.0, 5265.0, 5411.0, 5377.0, 5417.0, 5360.0, 5373.0, 5306.0, 5492.0, 5682.0, 5711.0, 5382.0, 5435.0, 5638.0, 5606.0, 5356.0, 5487.0, 5578.0, 5693.0, 5505.0, 5345.0, 5380.0, 5645.0, 5322.0, 5408.0, 5275.0, 5390.0, 5272.0, 5524.0, 5687.0, 5541.0, 5550.0 (number of hits: 9)
24	5270	9	1	333	1	5459.0, 5396.0, 5372.0, 5500.0, 5580.0, 5499.0, 5536.0, 5713.0, 5425.0, 5337.0, 5343.0, 5393.0, 5329.0, 5657.0, 5367.0,

						5522.0, 5623.0, 5358.0, 5260.0, 5397.0, 5704.0, 5684.0, 5548.0, 5302.0, 5622.0, 5404.0, 5357.0, 5690.0, 5612.0, 5250.0, 5296.0, 5431.0, 5377.0, 5638.0, 5448.0, 5707.0, 5533.0, 5258.0, 5297.0, 5663.0, 5274.0, 5414.0, 5639.0, 5652.0, 5697.0, 5490.0, 5261.0, 5593.0, 5556.0, 5278.0, 5723.0, 5293.0, 5555.0, 5517.0, 5314.0, 5276.0, 5444.0, 5286.0, 5427.0, 5288.0, 5700.0, 5356.0, 5708.0, 5472.0, 5516.0, 5602.0, 5719.0, 5380.0, 5685.0, 5701.0, 5401.0, 5307.0, 5614.0, 5439.0, 5673.0, 5283.0, 5290.0, 5660.0, 5520.0, 5653.0, 5679.0, 5651.0, 5574.0, 5346.0, 5308.0, 5325.0, 5621.0, 5326.0, 5498.0, 5671.0, 5315.0, 5647.0, 5282.0, 5511.0, 5324.0, 5379.0, 5320.0, 5350.0, 5615.0, 5502.0 (number of hits: 11)
25	5270	9	1	333	1	5647.0, 5656.0, 5283.0, 5293.0, 5501.0, 5548.0, 5565.0, 5575.0, 5338.0, 5646.0, 5357.0, 5354.0, 5560.0, 5676.0, 5399.0, 5427.0, 5674.0, 5268.0, 5617.0, 5422.0, 5321.0, 5659.0, 5638.0, 5634.0, 5491.0, 5389.0, 5425.0, 5628.0, 5450.0, 5440.0, 5374.0, 5658.0, 5301.0, 5564.0, 5600.0, 5524.0, 5494.0, 5607.0, 5264.0, 5343.0, 5622.0, 5298.0, 5437.0, 5344.0, 5429.0, 5350.0, 5481.0, 5462.0, 5496.0, 5297.0, 5347.0, 5604.0, 5678.0, 5296.0, 5307.0, 5689.0, 5584.0, 5303.0, 5311.0, 5662.0, 5336.0, 5510.0, 5476.0, 5474.0, 5655.0, 5581.0, 5672.0, 5434.0, 5470.0, 5312.0, 5320.0, 5499.0, 5601.0, 5294.0, 5608.0, 5574.0, 5620.0, 5712.0, 5446.0, 5460.0, 5403.0, 5415.0, 5477.0, 5705.0, 5709.0, 5507.0, 5667.0, 5590.0, 5650.0, 5472.0, 5670.0, 5684.0, 5587.0, 5276.0, 5334.0, 5633.0, 5325.0, 5682.0, 5697.0, 5549.0 (number of hits: 4)
26	5270	9	1	333	1	5438.0, 5290.0, 5280.0, 5707.0, 5641.0, 5648.0, 5423.0, 5613.0, 5367.0, 5608.0, 5489.0, 5359.0, 5287.0, 5397.0, 5682.0, 5260.0, 5463.0, 5659.0, 5286.0, 5568.0, 5543.0, 5299.0, 5481.0, 5456.0, 5649.0, 5347.0, 5495.0, 5619.0, 5383.0, 5702.0, 5342.0, 5576.0, 5494.0, 5555.0, 5570.0, 5378.0, 5352.0, 5668.0, 5392.0, 5443.0, 5722.0, 5255.0, 5345.0, 5710.0, 5250.0, 5524.0, 5301.0, 5715.0, 5661.0, 5407.0, 5689.0, 5571.0, 5415.0, 5642.0, 5390.0, 5711.0, 5421.0, 5644.0, 5315.0, 5344.0, 5346.0, 5657.0, 5379.0, 5615.0, 5372.0, 5518.0, 5395.0, 5477.0, 5355.0, 5509.0, 5493.0, 5283.0, 5698.0, 5398.0, 5505.0, 5309.0, 5485.0, 5496.0, 5467.0, 5416.0, 5490.0, 5419.0, 5662.0, 5353.0, 5358.0, 5500.0, 5623.0, 5486.0, 5409.0, 5307.0, 5598.0, 5591.0, 5417.0, 5691.0, 5413.0, 5665.0, 5341.0, 5536.0, 5609.0, 5277.0

						(number of hits: 8)
27	5270	9	1	333	1	5456.0, 5517.0, 5629.0, 5283.0, 5488.0, 5464.0, 5535.0, 5421.0, 5389.0, 5465.0, 5511.0, 5486.0, 5521.0, 5374.0, 5712.0, 5510.0, 5505.0, 5718.0, 5377.0, 5289.0, 5277.0, 5285.0, 5632.0, 5467.0, 5652.0, 5675.0, 5678.0, 5514.0, 5403.0, 5529.0, 5650.0, 5252.0, 5655.0, 5701.0, 5537.0, 5617.0, 5405.0, 5572.0, 5551.0, 5699.0, 5660.0, 5457.0, 5426.0, 5453.0, 5269.0, 5458.0, 5256.0, 5580.0, 5318.0, 5472.0, 5500.0, 5684.0, 5722.0, 5611.0, 5438.0, 5470.0, 5502.0, 5640.0, 5315.0, 5469.0, 5306.0, 5411.0, 5429.0, 5565.0, 5427.0, 5544.0, 5297.0, 5471.0, 5570.0, 5442.0, 5408.0, 5370.0, 5395.0, 5263.0, 5434.0, 5531.0, 5561.0, 5462.0, 5687.0, 5302.0, 5683.0, 5382.0, 5618.0, 5325.0, 5707.0, 5415.0, 5509.0, 5272.0, 5603.0, 5571.0, 5492.0, 5271.0, 5523.0, 5548.0, 5604.0, 5413.0, 5322.0, 5666.0, 5507.0, 5613.0 (number of hits: 10)
28	5270	9	1	333	1	5433.0, 5469.0, 5440.0, 5315.0, 5422.0, 5613.0, 5578.0, 5590.0, 5489.0, 5365.0, 5288.0, 5280.0, 5688.0, 5308.0, 5488.0, 5607.0, 5711.0, 5272.0, 5351.0, 5429.0, 5352.0, 5557.0, 5438.0, 5709.0, 5563.0, 5483.0, 5630.0, 5555.0, 5682.0, 5303.0, 5356.0, 5553.0, 5274.0, 5712.0, 5386.0, 5653.0, 5343.0, 5651.0, 5475.0, 5667.0, 5341.0, 5632.0, 5687.0, 5282.0, 5611.0, 5399.0, 5328.0, 5511.0, 5696.0, 5316.0, 5508.0, 5719.0, 5452.0, 5647.0, 5710.0, 5543.0, 5533.0, 5572.0, 5394.0, 5671.0, 5277.0, 5665.0, 5503.0, 5661.0, 5605.0, 5345.0, 5304.0, 5325.0, 5576.0, 5641.0, 5582.0, 5482.0, 5531.0, 5504.0, 5494.0, 5683.0, 5538.0, 5598.0, 5427.0, 5302.0, 5642.0, 5371.0, 5281.0, 5692.0, 5330.0, 5591.0, 5672.0, 5596.0, 5668.0, 5421.0, 5499.0, 5595.0, 5517.0, 5307.0, 5701.0, 5707.0, 5524.0, 5505.0, 5403.0, 5664.0 (number of hits: 7)
29	5270	9	1	333	1	5590.0, 5295.0, 5445.0, 5514.0, 5663.0, 5536.0, 5698.0, 5385.0, 5325.0, 5253.0, 5503.0, 5709.0, 5346.0, 5661.0, 5440.0, 5398.0, 5388.0, 5689.0, 5266.0, 5717.0, 5379.0, 5509.0, 5505.0, 5639.0, 5705.0, 5386.0, 5589.0, 5565.0, 5606.0, 5611.0, 5525.0, 5718.0, 5372.0, 5672.0, 5555.0, 5518.0, 5381.0, 5373.0, 5387.0, 5537.0, 5467.0, 5546.0, 5441.0, 5367.0, 5383.0, 5644.0, 5368.0, 5282.0, 5264.0, 5417.0, 5671.0, 5554.0, 5617.0, 5262.0, 5401.0, 5406.0, 5510.0, 5251.0, 5567.0, 5267.0, 5284.0, 5577.0, 5479.0, 5335.0, 5306.0, 5704.0, 5564.0, 5597.0, 5552.0, 5703.0, 5371.0, 5459.0, 5332.0, 5544.0, 5670.0, 5723.0, 5396.0, 5356.0, 5297.0, 5522.0,

						5640.0, 5632.0, 5404.0, 5359.0, 5543.0, 5719.0, 5400.0, 5411.0, 5355.0, 5453.0, 5329.0, 5553.0, 5430.0, 5432.0, 5358.0, 5269.0, 5610.0, 5456.0, 5340.0, 5572.0 (number of hits: 9)
30	5270	9	1	333	1	5521.0, 5616.0, 5395.0, 5405.0, 5413.0, 5596.0, 5351.0, 5669.0, 5390.0, 5442.0, 5513.0, 5264.0, 5467.0, 5251.0, 5657.0, 5362.0, 5322.0, 5465.0, 5443.0, 5647.0, 5533.0, 5255.0, 5374.0, 5660.0, 5435.0, 5460.0, 5269.0, 5367.0, 5722.0, 5371.0, 5494.0, 5447.0, 5306.0, 5488.0, 5294.0, 5446.0, 5576.0, 5553.0, 5706.0, 5588.0, 5589.0, 5394.0, 5285.0, 5479.0, 5311.0, 5477.0, 5422.0, 5626.0, 5437.0, 5432.0, 5409.0, 5324.0, 5663.0, 5516.0, 5387.0, 5709.0, 5355.0, 5524.0, 5556.0, 5499.0, 5562.0, 5423.0, 5440.0, 5287.0, 5683.0, 5569.0, 5299.0, 5427.0, 5489.0, 5291.0, 5690.0, 5671.0, 5419.0, 5575.0, 5636.0, 5497.0, 5382.0, 5713.0, 5252.0, 5542.0, 5348.0, 5430.0, 5397.0, 5470.0, 5675.0, 5478.0, 5649.0, 5406.0, 5332.0, 5360.0, 5676.0, 5543.0, 5566.0, 5668.0, 5313.0, 5267.0, 5665.0, 5511.0, 5472.0, 5415.0 (number of hits: 8)

5290 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	83.3 %	60%	Pass
Aggregate (Type1 to 4)	120	95 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5290 MHz, 80 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	83	1	638	1
2	5290	74	1	718	1
3	5290	95	1	558	1
4	5290	70	1	758	1
5	5290	63	1	838	1
6	5290	68	1	778	1
7	5290	58	1	918	1
8	5290	92	1	578	1
9	5290	59	1	898	1
10	5290	57	1	938	1
11	5290	18	1	3066	1
12	5290	65	1	818	1
13	5290	76	1	698	1
14	5290	86	1	618	1
15	5290	61	1	878	1
16	5290	102	1	520	1
17	5290	18	1	2941	1
18	5290	24	1	2260	1
19	5290	31	1	1728	1
20	5290	26	1	2052	1
21	5290	42	1	1283	1
22	5290	19	1	2888	1
23	5290	24	1	2240	1
24	5290	27	1	2022	1
25	5290	46	1	1172	1
26	5290	26	1	2031	1
27	5290	19	1	2801	1
28	5290	37	1	1445	1
29	5290	28	1	1895	1
30	5290	31	1	1725	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	29	1.4	193	1
2	5290	29	4.2	196	1
3	5290	23	3.1	162	1
4	5290	27	3.7	198	1
5	5290	26	3	213	1
6	5290	26	5	208	1
7	5290	23	1.8	155	1
8	5290	27	3	150	1
9	5290	29	3.3	162	1
10	5290	23	2.6	166	1
11	5290	25	1.5	202	1
12	5290	28	2.3	192	1
13	5290	27	1.7	197	1
14	5290	25	3.3	154	1
15	5290	25	1.3	198	1
16	5290	28	4.5	191	1
17	5290	25	2.7	194	1
18	5290	25	4.7	151	1
19	5290	28	4.4	153	1
20	5290	25	4.8	157	1
21	5290	23	5	158	1
22	5290	28	3.5	185	1
23	5290	29	4.4	199	1
24	5290	26	2.8	183	1
25	5290	25	4.7	229	1
26	5290	23	3.4	163	1
27	5290	29	2	177	1
28	5290	23	1.7	204	1
29	5290	27	3.2	212	1
30	5290	29	4.5	213	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	16	6.6	293	1
2	5290	18	8.4	277	1
3	5290	16	8.8	337	1
4	5290	18	7.5	227	1
5	5290	17	8.2	228	1
6	5290	18	8	288	1
7	5290	18	7.1	211	0
8	5290	17	6.8	311	1
9	5290	18	7	450	1
10	5290	16	7.5	468	1
11	5290	17	6.3	321	1
12	5290	16	9.2	250	1
13	5290	16	9.4	331	1
14	5290	16	8.1	299	1
15	5290	16	9.1	467	1
16	5290	18	6.4	366	1
17	5290	17	7.7	437	1
18	5290	17	6.6	329	1
19	5290	18	7.1	279	1
20	5290	16	6.7	322	1
21	5290	18	7.4	465	1
22	5290	18	6.4	330	1
23	5290	18	10	469	1
24	5290	16	6.9	499	1
25	5290	17	7.2	395	1
26	5290	16	7.8	241	1
27	5290	18	8.6	247	1
28	5290	16	8	450	1
29	5290	18	9.3	246	1
30	5290	18	8.4	255	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	5290	15	18.3	243	1
2	5290	12	11.2	500	0
3	5290	14	16.1	402	1
4	5290	15	16.4	454	1
5	5290	12	18.3	277	1
6	5290	14	17.3	232	1
7	5290	12	14	242	1
8	5290	16	16.6	415	1
9	5290	16	15.1	397	1
10	5290	16	13.4	238	1
11	5290	15	16	234	1
12	5290	15	18	435	1
13	5290	13	18.7	261	1
14	5290	12	18.9	418	1
15	5290	13	14	205	0
16	5290	13	12.3	208	0
17	5290	14	14	463	0
18	5290	12	19.9	340	1
19	5290	16	16.1	432	1
20	5290	16	12.3	368	1
21	5290	12	13	422	1
22	5290	16	16.2	273	1
23	5290	12	13.3	251	1
24	5290	13	15.6	210	0
25	5290	12	14.4	236	1
26	5290	14	12.5	409	1
27	5290	12	15.3	457	1
28	5290	14	19.5	460	1
29	5290	15	12.7	352	1
30	5290	15	11.1	269	1
Detection Percentage: 83.3 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5290	1
2	5290	1
3	5290	1
4	5290	1
5	5290	1
6	5290	1
7	5290	1
8	5290	1
9	5290	1
10	5290	1
11	5258.8	1
12	5259.6	1
13	5256.0	1
14	5254.0	1
15	5254.4	1
16	5255.6	1
17	5258.0	1
18	5259.6	1
19	5254.0	1
20	5260.0	1
21	5327.6	1
22	5323.6	1
23	5327.6	1
24	5322.4	1
25	5326.4	1
26	5323.2	1
27	5322.8	1
28	5327.6	1
29	5326.0	1
30	5323.2	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	93.7	1605		0.401482	1
1	2	13	76.1	1605		1.879095	
2	3	13	81	1993	1316	2.104257	
3	2	13	98.5	1588		3.887383	
4	2	13	97.3	1586		4.028439	
5	3	13	55.7	1884	1814	5.728915	
6	1	13	56.8			6.572382	
7	2	13	94.2	1080		7.515665	
8	2	13	77.7	1864		8.65139	
9	1	13	91.6			9.833117	
10	2	13	84.3	1272		10.991108	
11	1	13	68.4			11.041211	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	74.6			0.385841	1
1	2	6	93.6	1150		1.180432	
2	3	6	55	1911	1529	1.707778	
3	3	6	53.9	1948	1420	3.003276	
4	3	6	95.8	1452	1485	3.602627	
5	2	6	94.7	1342		4.282801	
6	3	6	64.1	1365	1906	5.164404	
7	1	6	76.1			6.035802	
8	2	6	54.2	1348		7.064918	
9	1	6	55			7.498881	
10	1	6	91.1			8.509242	
11	2	6	51.8	1561		8.979004	
12	1	6	60.8			9.632436	
13	3	6	91.5	1880	1978	10.981361	
14	1	6	52.3			11.660314	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	52.9	1254	1090	0.049258	
1	3	15	64	1536	1146	1.329417	
2	2	15	85.7	1116		1.718997	
3	2	15	73.7	1572		2.4286	
4	3	15	82.1	1711	1428	2.826553	
5	3	15	62.8	1487	1731	3.81851	
6	3	15	96	1644	1925	4.909822	
7	2	15	73.4	1465		5.006899	
8	1	15	73.8			6.241519	1
9	1	15	82.2			6.791964	
10	2	15	57.1	1261		7.438758	
11	2	15	81.4	1783		8.142134	
12	3	15	53.8	1371	1648	8.493707	
13	2	15	66.1	1365		9.291778	
14	3	15	68.7	1508	1560	10.22163	
15	2	15	50.7	1174		10.852607	
16	2	15	57.4	1564		11.764227	

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	70.1	1097		0.518312	
1	2	7	99.9	1622		0.980652	
2	3	7	69.8	1418	1812	2.175421	
3	1	7	63.2			2.557576	
4	2	7	50.9	1930		3.347466	
5	1	7	56.8			4.070664	
6	2	7	73.9	1855		5.427326	
7	2	7	88.8	1400		5.787861	1
8	1	7	96.3			7.069023	
9	3	7	64.8	1977	1755	7.336464	
10	2	7	57.3	1057		8.733012	
11	1	7	96.5			9.241849	
12	1	7	88.9			9.756319	
13	2	7	76.1	1690		10.593887	
14	3	7	68.6	1482	1641	11.707867	

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	64.6	1416		0.123732	
1	2	15	58.7	1856		1.350633	
2	3	15	82.2	1554	1458	2.202312	
3	3	15	75.6	1070	1540	2.290699	
4	2	15	85.3	1266		3.73602	
5	2	15	95.7	1040		4.196807	
6	2	15	68.2	1115		4.984819	
7	2	15	87.1	1186		5.848858	
8	2	15	50.2	1727		6.018542	1
9	3	15	88.1	1578	1100	7.110435	
10	2	15	68.9	1126		8.133078	
11	1	15	85.8			8.957404	
12	2	15	51	1310		9.667204	
13	3	15	57.2	1493	1437	10.470087	
14	1	15	58			10.799506	
15	3	15	87.3	1161	1773	11.805053	

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	6	84.2			0.089682	1
1	1	6	99.6			0.732427	
2	2	6	75.9	1739		1.9655	
3	2	6	82.4	1726		2.268026	
4	2	6	77.7	1530		2.753218	
5	1	6	52.3			3.532202	
6	1	6	56.1			4.276692	
7	1	6	75.3			4.858076	
8	1	6	80.2			5.861237	
9	3	6	54.4	1691	1081	6.116131	
10	2	6	87.7	1380		7.164631	
11	3	6	74.4	1193	1072	7.639226	
12	1	6	90.7			8.449514	
13	2	6	67.7	1215		9.088622	
14	1	6	94.9			9.798423	
15	2	6	74.5	1253		10.116342	
16	3	6	88.8	1584	1123	11.284612	
17	1	6	50.2			11.709365	

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	6	85.2	1050		0.424486	1
1	3	6	55.4	1660	1677	1.955935	
2	3	6	58	1973	1762	3.211986	
3	2	6	75.1	1715		4.275754	
4	3	6	99.6	1385	1600	5.828155	
5	1	6	84.8			6.269578	
6	2	6	53.1	1330		8.283458	
7	2	6	80.9	1513		8.476624	
8	1	6	61.1			10.733017	
9	2	6	94.7	1384		10.897406	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	86.3			0.595867	
1	3	16	84.7	1155	1320	0.951695	
2	3	16	88.1	1182	1591	1.397411	
3	3	16	76.3	1315	1016	1.886659	
4	3	16	87.1	1075	1198	2.662944	
5	2	16	83.2	1440		3.197801	
6	1	16	65.3			3.630837	
7	2	16	53.3	1703		4.411788	
8	2	16	69.1	1980		5.141098	
9	1	16	77.6			5.790964	
10	1	16	78.7			6.398909	1
11	3	16	98.1	1400	1742	7.188301	
12	3	16	95.6	1927	1132	7.404362	
13	2	16	58.1	1336		7.880118	
14	2	16	55.4	1636		8.919344	
15	2	16	99.4	1310		9.298341	
16	1	16	60.6			9.758281	
17	2	16	55.6	1287		10.475226	
18	1	16	68.9			10.836537	
19	2	16	71	1947		11.641733	
0	1	16	86.3			0.595867	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	69.6			0.705327	
1	1	13	64.6			1.163715	
2	1	13	93.5			3.04639	
3	2	13	95.7	1720		3.98052	
4	3	13	57.5	1108	1708	4.514915	
5	3	13	60.3	1490	1167	6.455756	1
6	1	13	71.8			7.064551	
7	1	13	72.5			8.037597	
8	2	13	75.5	1017		9.619361	
9	1	13	94.4			9.895116	
10	1	13	78			11.780552	

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	7	84	1416		0.4204	1
1	1	7	54.7			1.09378	
2	3	7	94.7	1892	1377	1.39829	
3	2	7	92.4	1552		2.536007	
4	2	7	78	1003		2.670089	
5	2	7	51.2	1258		3.978596	
6	1	7	66.6			4.535925	
7	2	7	52.5	1530		5.300117	
8	2	7	61.6	1467		5.66626	
9	1	7	52.1			6.425282	
10	3	7	73.2	1362	1996	7.264774	
11	2	7	97.7	1868		7.866744	
12	1	7	97.5			8.282093	
13	3	7	76.9	1204	1322	8.866407	
14	1	7	66.5			9.901402	
15	2	7	94.1	1890		10.013013	
16	1	7	74			10.935227	
17	2	7	73.2	1934		11.78906	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	78.6	1978	1949	0.792787	1
1	1	17	58.6			0.914415	
2	3	17	67.4	1710	1022	1.864267	
3	2	17	95.6	1319		2.590939	
4	2	17	57.3	1285		3.647245	
5	3	17	69	1926	1696	4.339909	
6	2	17	97.8	1939		4.800729	
7	2	17	85.8	1846		5.895577	
8	2	17	97.3	1279		7.068212	
9	2	17	97.2	1521		7.707297	
10	2	17	83.5	1642		8.675302	
11	2	17	94.9	1620		8.890614	
12	3	17	87.9	1892	1781	9.665568	
13	2	17	64.7	1959		11.131452	
14	2	17	56.3	1611		11.791426	

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	19	86.6	1014		1.011355	1
1	2	19	63.3	1970		2.562909	
2	1	19	86.8			3.024135	
3	2	19	50.2	1855		4.870481	
4	2	19	83.6	1154		6.46891	
5	2	19	79.2	1435		7.724745	
6	1	19	89.2			8.220995	
7	2	19	64.7	1062		9.915391	
8	2	19	61.3	1566		11.78245	

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	89.7			0.636158	1
1	1	10	82.7			1.354433	
2	1	10	76.8			2.795549	
3	3	10	76.5	1027	1689	4.211855	
4	2	10	98.3	1690		5.565743	
5	1	10	81.8			6.469201	
6	2	10	86.1	1445		7.516633	
7	2	10	85.7	1335		9.389193	
8	2	10	55.7	1814		10.674629	
9	3	10	52.6	1301	1483	11.783962	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	96.6			0.198767	
1	2	5	62.2	1202		0.797135	
2	1	5	55			2.052538	
3	1	5	88.1			2.63875	
4	2	5	76.4	1448		2.844275	
5	3	5	93.4	1697	1479	4.166364	
6	1	5	78.6			4.538727	
7	2	5	63.2	1509		5.556628	
8	3	5	58.7	1214	1570	6.087159	1
9	2	5	90	1728		6.659483	
10	3	5	97.4	1329	1396	7.184695	
11	3	5	64.1	1698	1062	8.354502	
12	2	5	88.9	1716		8.8116	
13	2	5	81.9	1168		9.864513	
14	2	5	84.1	1556		10.469078	
15	3	5	84.5	1827	1046	10.782989	
16	2	5	50.8	1347		11.703113	

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	6	96.3	1793		0.278811	
1	1	6	69.3			1.350893	
2	1	6	55.1			2.210881	
3	3	6	91.9	1017	1424	2.978105	
4	2	6	68.8	1473		3.118777	
5	2	6	95	1487		3.795003	
6	3	6	57.1	1326	1902	5.071646	
7	2	6	95.4	1084		5.324969	
8	2	6	74.6	1797		6.450588	1
9	2	6	52.3	1725		7.18535	
10	2	6	73.9	1182		8.028804	
11	1	6	50.5			8.719884	
12	3	6	56.9	1495	1754	9.714913	
13	2	6	99.4	1984		10.440969	
14	2	6	58.2	1993		10.868394	
15	1	6	52			11.298848	

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	9	80.9			0.406642	
1	1	9	73.4			2.089193	
2	2	9	51	1790		2.846623	
3	2	9	86.1	1238		5.067107	
4	2	9	59.2	1519		5.818573	1
5	2	9	94.6	1651		6.809021	
6	2	9	73.1	1515		8.803058	
7	2	9	76.6	1306		9.483086	
8	2	9	76.6	1882		11.631318	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	92.2	1475		0.382885	
1	3	15	92.7	1801	1538	0.825675	
2	1	15	71.7			1.702823	
3	1	15	92.3			2.0491	
4	2	15	54.7	1455		3.002311	
5	2	15	59.2	1194		3.492933	
6	3	15	61.8	1081	1889	3.835744	
7	2	15	73	1103		4.724972	
8	1	15	88.9			5.116701	
9	2	15	94.7	1494		6.043857	1
10	3	15	50.7	1983	1928	6.783074	
11	2	15	85.4	1851		7.552802	
12	2	15	62.6	1206		8.014669	
13	2	15	91.3	1084		8.70919	
14	1	15	58.2			8.871218	
15	2	15	82.5	1072		10.025059	
16	1	15	59.8			10.516185	
17	3	15	88.5	1978	1036	10.81297	
18	2	15	90.6	1830		11.43169	

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	50.2			0.895851	
1	2	19	77.5	1049		0.98758	
2	1	19	85.8			2.485343	
3	2	19	62.4	1539		3.556543	
4	2	19	80.6	1729		4.018014	
5	1	19	65.9			5.085571	
6	3	19	88.8	1639	1146	5.802845	1
7	1	19	70.5			7.288358	
8	3	19	81	1203	1403	7.891959	
9	3	19	62	1768	1746	8.652657	
10	2	19	54.6	1364		9.630385	
11	2	19	65.5	1284		10.4719	
12	3	19	64.1	1260	1065	11.488923	

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	5	89.4	1234	1082	0.294597	
1	3	5	98.2	1679	1179	1.383919	
2	2	5	78.3	1691		2.053086	
3	1	5	65.5			2.551909	
4	2	5	72.9	1920		3.360238	
5	2	5	70.6	1710		4.101531	
6	1	5	96			4.410073	
7	3	5	90	1966	1264	5.220044	
8	1	5	74			6.197777	1
9	2	5	67.3	1206		6.569858	
10	2	5	71.9	1182		7.181884	
11	1	5	53.1			7.971424	
12	3	5	61	1531	1644	9.150657	
13	3	5	98.2	1258	1488	9.677585	
14	3	5	96.9	1805	1147	10.543739	
15	1	5	78.9			11.269339	
16	2	5	73	1228		11.412063	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	20	84.5			0.18551	
1	1	20	55.6			1.082296	
2	2	20	99.7	1063		2.214023	
3	1	20	86.1			3.441643	
4	3	20	52.5	1499	1822	4.152548	
5	2	20	85	1885		5.195007	
6	2	20	91.3	1685		6.36548	1
7	1	20	70.1			6.484829	
8	1	20	56.1			8.1133	
9	2	20	55.1	1150		8.504428	
10	2	20	99.1	1114		9.300681	
11	2	20	56.6	1545		11.023378	
12	1	20	89.6			11.603739	

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	6	96.5	1367		0.654575	1
1	2	6	53.5	1792		2.009338	
2	3	6	53	1937	1577	3.04571	
3	2	6	74.3	1182		4.007525	
4	2	6	94.7	1487		6.53337	
5	2	6	53	1252		6.784555	
6	2	6	66.1	1099		9.258147	
7	2	6	68.3	1396		9.893211	
8	2	6	53	1962		11.914705	

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	16	60	1325		0.90574	1
1	2	16	64.6	1871		1.473529	
2	1	16	90			2.499096	
3	2	16	56.6	1732		4.237389	
4	3	16	75.6	1295	1828	4.813402	
5	2	16	85	1270		6.817331	
6	3	16	72.7	1794	1559	7.566865	
7	2	16	61.8	1009		8.652626	
8	2	16	72.4	1405		10.19669	
9	3	16	69.7	1438	1164	10.883937	

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	6	70.6			0.190369	1
1	2	6	79.1	1845		0.82893	
2	2	6	78.2	1869		1.749338	
3	1	6	82.6			2.982457	
4	2	6	86.7	1339		3.197752	
5	1	6	94.9			4.472496	
6	3	6	61.9	1315	1397	4.55927	
7	2	6	78	1268		5.511591	
8	2	6	84.2	1935		6.602487	
9	1	6	86.8			7.054145	
10	2	6	66.7	1838		7.705386	
11	2	6	72.8	1159		8.759594	
12	1	6	68.1			9.039857	
13	3	6	99.4	1468	1579	10.243916	
14	1	6	66			11.071919	
15	2	6	80.2	1169		11.277659	

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	19	78.7			0.490822	1
1	3	19	56.8	1636	1378	1.626241	
2	2	19	82.5	1151		2.904775	
3	2	19	65	1134		3.293526	
4	2	19	76.4	1379		4.81924	
5	3	19	90.7	1664	1746	5.772869	
6	2	19	72	1009		7.272878	
7	2	19	75.2	1627		7.68988	
8	3	19	84.3	1244	1564	9.607727	
9	2	19	54.4	1320		10.505113	
10	1	19	64.8			11.995978	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	76.8	1218		0.797195	1
1	2	9	96	1584		1.742931	
2	2	9	88.9	1427		2.195436	
3	2	9	82.3	1930		3.788027	
4	2	9	63.4	1365		4.267707	
5	1	9	98.2			5.185299	
6	1	9	85.5			6.253743	
7	1	9	83.7			7.253928	
8	1	9	50.4			8.303279	
9	2	9	64	1097		9.757794	
10	2	9	61.6	1354		10.379334	
11	1	9	86.9			11.69764	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	51.3	1342		0.054516	1
1	1	17	65.6			0.641561	
2	2	17	57.1	1346		1.374313	
3	1	17	57.8			2.094453	
4	1	17	77.3			2.716643	
5	2	17	97.4	1383		3.450111	
6	1	17	52.8			4.148462	
7	3	17	96.3	1351	1950	4.500752	
8	2	17	56.1	1512		5.504825	
9	2	17	80.2	1462		6.066538	
10	1	17	62.7			6.766599	
11	2	17	82.6	1817		7.374768	
12	1	17	97.4			8.050326	
13	2	17	74.1	1265		8.813285	
14	3	17	82.8	1582	1985	9.255567	
15	2	17	96.1	1784		9.760808	
16	2	17	64.4	1219		10.533515	
17	1	17	74.4			11.356131	
18	2	17	85.9	1374		11.941306	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	67.9	1695		1.063851	1
1	3	18	97.5	1660	1397	1.223877	
2	1	18	98.7			2.400879	
3	2	18	57.1	1469		4.688379	
4	2	18	75.5	1521		5.600695	
5	2	18	69.8	1430		6.428038	
6	2	18	67.1	1585		7.705203	
7	2	18	82.4	1235		9.421064	
8	2	18	91.7	1408		10.391166	
9	3	18	85.3	1955	1447	11.804588	

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	6	82.9	1233		0.66108	1
1	2	6	89.6	1015		1.092365	
2	3	6	75.9	1944	1094	1.597238	
3	1	6	61.6			2.404586	
4	2	6	91.9	1981		3.026768	
5	2	6	71.9	1991		3.883239	
6	3	6	52.3	1250	1432	4.036929	
7	3	6	79	1144	1720	5.124165	
8	3	6	98.1	1033	1184	5.396626	
9	1	6	60			6.444586	
10	1	6	51.6			7.192124	
11	2	6	53.4	1439		7.687942	
12	3	6	76.5	1756	1070	8.100044	
13	2	6	67.6	1177		8.721971	
14	2	6	70	1715		9.721056	
15	1	6	50.9			10.21329	
16	2	6	75.8	1485		10.99218	
17	2	6	63.5	1927		11.681629	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	98.7	1289	1390	0.173447	
1	1	10	91.8			0.774727	
2	2	10	60.8	1130		1.483704	
3	3	10	79.5	1406	1168	1.907893	
4	2	10	79.7	1836		3.017109	
5	2	10	83.4	1612		3.36217	
6	1	10	77.5			4.410838	
7	2	10	97.7	1092		4.531989	
8	3	10	55.3	1108	1934	5.522663	
9	2	10	62	1125		6.1483	1
10	2	10	97.4	1801		6.559538	
11	3	10	65.7	1580	1078	7.35461	
12	3	10	86.2	1083	1764	8.180057	
13	1	10	64.8			8.544209	
14	1	10	67.8			9.009515	
15	3	10	66.2	1412	1951	10.057548	
16	2	10	86.2	1101		10.562497	
17	2	10	85.3	1385		11.142302	
18	2	10	78.7	1032		11.489735	

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	17	60.1	1071		0.663893	
1	2	17	79.3	1193		1.662097	
2	1	17	97.7			2.190823	
3	1	17	88.3			2.765977	
4	2	17	62.9	1254		3.753034	
5	1	17	89			4.485714	
6	3	17	72.1	1251	1573	5.642179	
7	1	17	70			6.00893	1
8	3	17	73.3	1495	1284	7.479729	
9	2	17	73.2	1049		7.836124	
10	2	17	74.6	1542		8.853811	
11	2	17	73.5	1982		9.505492	
12	2	17	74.4	1361		10.823471	
13	1	17	75.9			11.229351	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5290	9	1	333	1	5678.0, 5686.0, 5497.0, 5440.0, 5270.0, 5668.0, 5711.0, 5266.0, 5548.0, 5465.0, 5404.0, 5423.0, 5573.0, 5577.0, 5604.0, 5260.0, 5353.0, 5563.0, 5253.0, 5357.0, 5341.0, 5428.0, 5393.0, 5622.0, 5695.0, 5552.0, 5331.0, 5586.0, 5445.0, 5670.0, 5373.0, 5406.0, 5290.0, 5382.0, 5395.0, 5661.0, 5539.0, 5699.0, 5316.0, 5480.0, 5482.0, 5297.0, 5588.0, 5405.0, 5454.0, 5627.0, 5344.0, 5514.0, 5687.0, 5456.0, 5463.0, 5289.0, 5417.0, 5669.0, 5286.0, 5403.0, 5683.0, 5491.0, 5536.0, 5348.0, 5261.0, 5626.0, 5593.0, 5328.0, 5518.0, 5561.0, 5555.0, 5553.0, 5258.0, 5383.0, 5720.0, 5656.0, 5685.0, 5494.0, 5259.0, 5659.0, 5701.0, 5490.0, 5707.0, 5399.0, 5691.0, 5680.0, 5309.0, 5255.0, 5329.0, 5359.0, 5636.0, 5396.0, 5327.0, 5342.0, 5651.0, 5333.0, 5345.0, 5609.0, 5557.0, 5692.0, 5619.0, 5565.0, 5483.0, 5299.0 (number of hits: 18)
2	5290	9	1	333	1	5619.0, 5479.0, 5402.0, 5632.0, 5369.0, 5412.0, 5611.0, 5340.0, 5665.0, 5434.0, 5448.0, 5593.0, 5469.0, 5333.0, 5508.0, 5681.0, 5550.0, 5465.0, 5407.0, 5368.0, 5355.0, 5557.0, 5644.0, 5688.0, 5427.0, 5523.0, 5499.0, 5610.0, 5353.0, 5643.0, 5634.0, 5422.0, 5629.0, 5285.0, 5414.0, 5562.0, 5585.0, 5410.0, 5494.0, 5356.0, 5442.0, 5590.0, 5618.0, 5555.0, 5551.0, 5663.0, 5650.0, 5400.0, 5342.0, 5677.0, 5263.0, 5307.0, 5346.0, 5701.0, 5598.0, 5326.0, 5539.0, 5490.0, 5411.0, 5330.0, 5560.0, 5532.0, 5603.0, 5582.0, 5546.0, 5698.0, 5492.0, 5429.0, 5310.0, 5600.0, 5529.0, 5266.0, 5680.0, 5572.0, 5389.0, 5615.0, 5390.0, 5517.0, 5506.0, 5537.0, 5344.0, 5510.0, 5700.0, 5264.0, 5350.0, 5415.0, 5393.0, 5392.0, 5722.0, 5556.0, 5595.0, 5545.0, 5295.0, 5579.0, 5417.0, 5635.0, 5362.0, 5441.0, 5278.0, 5672.0 (number of hits: 9)
3	5290	9	1	333	1	5587.0, 5690.0, 5356.0, 5274.0, 5444.0, 5629.0, 5593.0, 5414.0, 5361.0, 5649.0, 5590.0, 5466.0, 5324.0, 5279.0, 5471.0, 5542.0, 5443.0, 5588.0, 5701.0, 5435.0, 5496.0, 5568.0, 5504.0, 5350.0, 5624.0, 5639.0, 5647.0, 5268.0, 5427.0, 5543.0, 5469.0, 5425.0, 5679.0, 5413.0, 5577.0, 5479.0, 5371.0, 5642.0, 5544.0, 5601.0, 5658.0, 5334.0, 5399.0, 5600.0, 5530.0, 5372.0, 5523.0, 5674.0, 5579.0, 5326.0, 5585.0, 5376.0, 5364.0, 5323.0, 5291.0,

						5446.0, 5556.0, 5318.0, 5576.0, 5275.0, 5287.0, 5612.0, 5645.0, 5363.0, 5707.0, 5654.0, 5281.0, 5482.0, 5315.0, 5683.0, 5672.0, 5554.0, 5540.0, 5529.0, 5501.0, 5449.0, 5433.0, 5533.0, 5670.0, 5436.0, 5547.0, 5365.0, 5481.0, 5678.0, 5569.0, 5633.0, 5262.0, 5465.0, 5352.0, 5680.0, 5432.0, 5648.0, 5692.0, 5284.0, 5517.0, 5526.0, 5522.0, 5378.0, 5713.0, 5295.0 (number of hits: 15)
4	5290	9	1	333	1	5486.0, 5337.0, 5578.0, 5415.0, 5722.0, 5721.0, 5501.0, 5452.0, 5442.0, 5435.0, 5475.0, 5497.0, 5338.0, 5443.0, 5281.0, 5521.0, 5363.0, 5510.0, 5254.0, 5321.0, 5566.0, 5607.0, 5702.0, 5420.0, 5670.0, 5379.0, 5426.0, 5378.0, 5309.0, 5464.0, 5666.0, 5711.0, 5535.0, 5388.0, 5479.0, 5283.0, 5326.0, 5513.0, 5577.0, 5312.0, 5368.0, 5418.0, 5562.0, 5450.0, 5505.0, 5663.0, 5275.0, 5550.0, 5469.0, 5683.0, 5272.0, 5330.0, 5544.0, 5438.0, 5374.0, 5567.0, 5576.0, 5561.0, 5600.0, 5549.0, 5697.0, 5303.0, 5641.0, 5659.0, 5310.0, 5291.0, 5662.0, 5448.0, 5660.0, 5276.0, 5358.0, 5402.0, 5369.0, 5256.0, 5639.0, 5403.0, 5701.0, 5432.0, 5271.0, 5719.0, 5299.0, 5397.0, 5382.0, 5288.0, 5367.0, 5539.0, 5494.0, 5260.0, 5602.0, 5556.0, 5348.0, 5459.0, 5252.0, 5672.0, 5684.0, 5328.0, 5377.0, 5339.0, 5506.0, 5268.0 (number of hits: 21)
5	5290	9	1	333	1	5258.0, 5477.0, 5582.0, 5652.0, 5614.0, 5347.0, 5262.0, 5389.0, 5452.0, 5592.0, 5464.0, 5672.0, 5541.0, 5677.0, 5695.0, 5480.0, 5493.0, 5479.0, 5296.0, 5462.0, 5723.0, 5566.0, 5563.0, 5282.0, 5324.0, 5346.0, 5552.0, 5283.0, 5650.0, 5376.0, 5674.0, 5684.0, 5574.0, 5409.0, 5263.0, 5433.0, 5581.0, 5508.0, 5342.0, 5626.0, 5717.0, 5518.0, 5526.0, 5378.0, 5624.0, 5657.0, 5715.0, 5363.0, 5478.0, 5443.0, 5609.0, 5546.0, 5366.0, 5264.0, 5527.0, 5454.0, 5615.0, 5636.0, 5323.0, 5271.0, 5272.0, 5654.0, 5605.0, 5468.0, 5338.0, 5597.0, 5436.0, 5525.0, 5558.0, 5267.0, 5460.0, 5586.0, 5627.0, 5343.0, 5577.0, 5269.0, 5305.0, 5356.0, 5447.0, 5495.0, 5618.0, 5260.0, 5530.0, 5538.0, 5300.0, 5535.0, 5352.0, 5564.0, 5318.0, 5345.0, 5707.0, 5653.0, 5481.0, 5406.0, 5369.0, 5399.0, 5509.0, 5642.0, 5561.0, 5589.0 (number of hits: 17)
6	5290	9	1	333	1	5574.0, 5545.0, 5587.0, 5337.0, 5677.0, 5258.0, 5697.0, 5676.0, 5554.0, 5668.0, 5459.0, 5713.0, 5349.0, 5583.0, 5264.0, 5492.0, 5635.0, 5278.0, 5698.0, 5650.0, 5539.0, 5392.0, 5359.0, 5487.0, 5595.0, 5423.0, 5369.0, 5465.0, 5315.0, 5462.0, 5543.0, 5371.0, 5422.0, 5553.0, 5282.0,

						5253.0, 5280.0, 5586.0, 5631.0, 5701.0, 5546.0, 5706.0, 5548.0, 5659.0, 5624.0, 5675.0, 5664.0, 5704.0, 5383.0, 5614.0, 5570.0, 5693.0, 5455.0, 5294.0, 5621.0, 5523.0, 5473.0, 5572.0, 5303.0, 5373.0, 5340.0, 5662.0, 5619.0, 5470.0, 5663.0, 5350.0, 5387.0, 5512.0, 5275.0, 5538.0, 5661.0, 5433.0, 5325.0, 5521.0, 5689.0, 5327.0, 5562.0, 5409.0, 5585.0, 5456.0, 5672.0, 5391.0, 5525.0, 5723.0, 5550.0, 5335.0, 5393.0, 5656.0, 5513.0, 5481.0, 5684.0, 5685.0, 5296.0, 5655.0, 5477.0, 5266.0, 5559.0, 5686.0, 5357.0, 5305.0 (number of hits: 15)
7	5290	9	1	333	1	5353.0, 5647.0, 5654.0, 5336.0, 5597.0, 5308.0, 5305.0, 5253.0, 5404.0, 5720.0, 5557.0, 5301.0, 5351.0, 5373.0, 5374.0, 5398.0, 5487.0, 5422.0, 5477.0, 5616.0, 5276.0, 5664.0, 5307.0, 5558.0, 5333.0, 5603.0, 5442.0, 5527.0, 5322.0, 5466.0, 5530.0, 5330.0, 5339.0, 5275.0, 5478.0, 5319.0, 5668.0, 5271.0, 5657.0, 5435.0, 5259.0, 5688.0, 5679.0, 5426.0, 5559.0, 5649.0, 5563.0, 5677.0, 5332.0, 5611.0, 5628.0, 5699.0, 5266.0, 5405.0, 5554.0, 5497.0, 5254.0, 5283.0, 5623.0, 5310.0, 5561.0, 5296.0, 5481.0, 5365.0, 5631.0, 5334.0, 5630.0, 5651.0, 5388.0, 5512.0, 5710.0, 5449.0, 5441.0, 5693.0, 5636.0, 5721.0, 5304.0, 5327.0, 5411.0, 5545.0, 5694.0, 5428.0, 5667.0, 5621.0, 5341.0, 5490.0, 5475.0, 5492.0, 5568.0, 5673.0, 5645.0, 5453.0, 5447.0, 5684.0, 5531.0, 5707.0, 5338.0, 5678.0, 5360.0, 5272.0 (number of hits: 19)
8	5290	9	1	333	1	5453.0, 5396.0, 5519.0, 5427.0, 5599.0, 5621.0, 5289.0, 5658.0, 5627.0, 5694.0, 5418.0, 5560.0, 5470.0, 5311.0, 5701.0, 5340.0, 5636.0, 5333.0, 5616.0, 5398.0, 5332.0, 5645.0, 5463.0, 5489.0, 5323.0, 5355.0, 5555.0, 5415.0, 5710.0, 5275.0, 5565.0, 5695.0, 5559.0, 5572.0, 5373.0, 5327.0, 5517.0, 5495.0, 5553.0, 5501.0, 5618.0, 5716.0, 5442.0, 5449.0, 5644.0, 5255.0, 5433.0, 5642.0, 5571.0, 5502.0, 5569.0, 5574.0, 5550.0, 5564.0, 5254.0, 5718.0, 5552.0, 5697.0, 5528.0, 5531.0, 5652.0, 5649.0, 5527.0, 5455.0, 5681.0, 5498.0, 5387.0, 5362.0, 5717.0, 5256.0, 5708.0, 5277.0, 5576.0, 5575.0, 5309.0, 5596.0, 5278.0, 5551.0, 5668.0, 5419.0, 5417.0, 5304.0, 5676.0, 5272.0, 5297.0, 5410.0, 5352.0, 5414.0, 5386.0, 5344.0, 5306.0, 5637.0, 5532.0, 5341.0, 5544.0, 5343.0, 5669.0, 5294.0, 5512.0, 5581.0 (number of hits: 16)
9	5290	9	1	333	1	5317.0, 5586.0, 5409.0, 5343.0, 5556.0, 5418.0, 5302.0, 5273.0, 5652.0, 5529.0, 5327.0, 5447.0, 5326.0, 5611.0, 5322.0,

						5701.0, 5390.0, 5612.0, 5712.0, 5440.0, 5585.0, 5367.0, 5476.0, 5513.0, 5494.0, 5351.0, 5479.0, 5374.0, 5280.0, 5419.0, 5403.0, 5437.0, 5323.0, 5484.0, 5452.0, 5337.0, 5454.0, 5425.0, 5578.0, 5662.0, 5361.0, 5634.0, 5562.0, 5698.0, 5414.0, 5325.0, 5413.0, 5353.0, 5383.0, 5370.0, 5588.0, 5596.0, 5557.0, 5658.0, 5354.0, 5607.0, 5338.0, 5320.0, 5674.0, 5678.0, 5373.0, 5467.0, 5614.0, 5685.0, 5702.0, 5537.0, 5541.0, 5346.0, 5392.0, 5691.0, 5442.0, 5391.0, 5544.0, 5474.0, 5378.0, 5314.0, 5680.0, 5628.0, 5410.0, 5281.0, 5278.0, 5528.0, 5619.0, 5308.0, 5424.0, 5433.0, 5436.0, 5298.0, 5560.0, 5371.0, 5393.0, 5363.0, 5505.0, 5470.0, 5483.0, 5569.0, 5515.0, 5328.0, 5654.0, 5548.0 (number of hits: 16)
10	5290	9	1	333	1	5456.0, 5265.0, 5570.0, 5472.0, 5348.0, 5378.0, 5369.0, 5266.0, 5532.0, 5345.0, 5260.0, 5285.0, 5551.0, 5550.0, 5572.0, 5533.0, 5294.0, 5517.0, 5289.0, 5606.0, 5711.0, 5337.0, 5504.0, 5516.0, 5688.0, 5312.0, 5619.0, 5252.0, 5538.0, 5627.0, 5451.0, 5671.0, 5324.0, 5613.0, 5418.0, 5642.0, 5344.0, 5692.0, 5321.0, 5549.0, 5483.0, 5565.0, 5518.0, 5311.0, 5386.0, 5608.0, 5539.0, 5393.0, 5624.0, 5709.0, 5681.0, 5468.0, 5686.0, 5589.0, 5410.0, 5428.0, 5305.0, 5629.0, 5377.0, 5464.0, 5320.0, 5713.0, 5463.0, 5436.0, 5588.0, 5641.0, 5414.0, 5452.0, 5292.0, 5582.0, 5682.0, 5529.0, 5721.0, 5612.0, 5443.0, 5475.0, 5482.0, 5556.0, 5257.0, 5704.0, 5651.0, 5302.0, 5625.0, 5555.0, 5419.0, 5708.0, 5331.0, 5334.0, 5605.0, 5562.0, 5478.0, 5415.0, 5409.0, 5385.0, 5720.0, 5280.0, 5310.0, 5666.0, 5701.0, 5672.0 (number of hits: 18)
11	5290	9	1	333	1	5272.0, 5701.0, 5419.0, 5312.0, 5511.0, 5379.0, 5318.0, 5424.0, 5653.0, 5639.0, 5525.0, 5306.0, 5369.0, 5690.0, 5551.0, 5516.0, 5688.0, 5599.0, 5353.0, 5634.0, 5423.0, 5644.0, 5562.0, 5576.0, 5708.0, 5362.0, 5399.0, 5461.0, 5703.0, 5415.0, 5586.0, 5622.0, 5299.0, 5261.0, 5421.0, 5486.0, 5386.0, 5702.0, 5643.0, 5327.0, 5584.0, 5691.0, 5519.0, 5491.0, 5359.0, 5260.0, 5497.0, 5484.0, 5254.0, 5457.0, 5565.0, 5365.0, 5331.0, 5705.0, 5609.0, 5496.0, 5341.0, 5651.0, 5289.0, 5463.0, 5435.0, 5292.0, 5325.0, 5343.0, 5546.0, 5509.0, 5304.0, 5392.0, 5692.0, 5548.0, 5271.0, 5265.0, 5531.0, 5270.0, 5333.0, 5696.0, 5342.0, 5523.0, 5407.0, 5504.0, 5570.0, 5479.0, 5698.0, 5448.0, 5425.0, 5307.0, 5280.0, 5282.0, 5724.0, 5360.0, 5517.0, 5628.0, 5626.0, 5697.0, 5615.0, 5573.0, 5483.0, 5712.0, 5287.0, 5649.0

						(number of hits: 20)
12	5290	9	1	333	1	5530.0, 5593.0, 5298.0, 5709.0, 5303.0, 5592.0, 5538.0, 5252.0, 5367.0, 5345.0, 5502.0, 5614.0, 5513.0, 5419.0, 5463.0, 5312.0, 5510.0, 5358.0, 5708.0, 5400.0, 5687.0, 5591.0, 5675.0, 5624.0, 5256.0, 5562.0, 5642.0, 5262.0, 5351.0, 5641.0, 5391.0, 5504.0, 5665.0, 5308.0, 5670.0, 5458.0, 5457.0, 5579.0, 5289.0, 5472.0, 5448.0, 5716.0, 5319.0, 5428.0, 5443.0, 5524.0, 5651.0, 5540.0, 5416.0, 5333.0, 5294.0, 5427.0, 5473.0, 5560.0, 5304.0, 5301.0, 5389.0, 5475.0, 5466.0, 5471.0, 5705.0, 5317.0, 5652.0, 5259.0, 5322.0, 5643.0, 5635.0, 5334.0, 5583.0, 5559.0, 5316.0, 5580.0, 5283.0, 5253.0, 5514.0, 5674.0, 5578.0, 5435.0, 5338.0, 5660.0, 5296.0, 5309.0, 5481.0, 5515.0, 5324.0, 5279.0, 5470.0, 5284.0, 5568.0, 5251.0, 5714.0, 5414.0, 5456.0, 5712.0, 5462.0, 5492.0, 5658.0, 5331.0, 5439.0, 5695.0 (number of hits: 24)
13	5290	9	1	333	1	5273.0, 5490.0, 5448.0, 5313.0, 5568.0, 5546.0, 5590.0, 5426.0, 5483.0, 5274.0, 5266.0, 5262.0, 5642.0, 5458.0, 5435.0, 5679.0, 5564.0, 5297.0, 5581.0, 5703.0, 5519.0, 5464.0, 5616.0, 5561.0, 5359.0, 5517.0, 5376.0, 5468.0, 5538.0, 5626.0, 5661.0, 5354.0, 5520.0, 5562.0, 5675.0, 5652.0, 5655.0, 5358.0, 5576.0, 5423.0, 5552.0, 5452.0, 5494.0, 5390.0, 5697.0, 5460.0, 5684.0, 5287.0, 5356.0, 5455.0, 5398.0, 5707.0, 5721.0, 5558.0, 5343.0, 5380.0, 5622.0, 5278.0, 5320.0, 5722.0, 5596.0, 5619.0, 5666.0, 5559.0, 5678.0, 5422.0, 5614.0, 5656.0, 5409.0, 5695.0, 5603.0, 5669.0, 5658.0, 5501.0, 5296.0, 5443.0, 5471.0, 5694.0, 5621.0, 5277.0, 5369.0, 5379.0, 5593.0, 5352.0, 5365.0, 5424.0, 5475.0, 5524.0, 5643.0, 5322.0, 5275.0, 5554.0, 5421.0, 5415.0, 5498.0, 5602.0, 5367.0, 5522.0, 5429.0, 5293.0 (number of hits: 14)
14	5290	9	1	333	1	5548.0, 5268.0, 5482.0, 5618.0, 5383.0, 5329.0, 5263.0, 5472.0, 5352.0, 5510.0, 5271.0, 5346.0, 5684.0, 5262.0, 5687.0, 5702.0, 5285.0, 5444.0, 5539.0, 5653.0, 5253.0, 5705.0, 5423.0, 5664.0, 5420.0, 5635.0, 5397.0, 5523.0, 5644.0, 5307.0, 5312.0, 5452.0, 5533.0, 5511.0, 5344.0, 5670.0, 5266.0, 5513.0, 5712.0, 5690.0, 5669.0, 5585.0, 5321.0, 5622.0, 5485.0, 5704.0, 5584.0, 5538.0, 5403.0, 5393.0, 5445.0, 5338.0, 5573.0, 5261.0, 5575.0, 5481.0, 5296.0, 5609.0, 5406.0, 5265.0, 5389.0, 5455.0, 5694.0, 5361.0, 5620.0, 5342.0, 5467.0, 5703.0, 5648.0, 5398.0, 5628.0, 5707.0, 5541.0, 5409.0, 5272.0, 5555.0, 5324.0, 5666.0, 5616.0, 5461.0,

						5649.0, 5440.0, 5364.0, 5322.0, 5516.0, 5475.0, 5470.0, 5608.0, 5434.0, 5451.0, 5273.0, 5680.0, 5288.0, 5491.0, 5678.0, 5579.0, 5557.0, 5301.0, 5433.0, 5553.0 (number of hits: 20)
15	5290	9	1	333	1	5608.0, 5307.0, 5256.0, 5563.0, 5568.0, 5446.0, 5556.0, 5457.0, 5638.0, 5412.0, 5671.0, 5334.0, 5480.0, 5315.0, 5656.0, 5422.0, 5258.0, 5672.0, 5411.0, 5511.0, 5398.0, 5269.0, 5492.0, 5309.0, 5330.0, 5392.0, 5494.0, 5427.0, 5359.0, 5443.0, 5274.0, 5526.0, 5348.0, 5375.0, 5252.0, 5657.0, 5331.0, 5666.0, 5273.0, 5332.0, 5633.0, 5448.0, 5364.0, 5632.0, 5588.0, 5700.0, 5278.0, 5559.0, 5297.0, 5617.0, 5485.0, 5384.0, 5543.0, 5724.0, 5681.0, 5648.0, 5645.0, 5293.0, 5598.0, 5694.0, 5716.0, 5679.0, 5541.0, 5402.0, 5312.0, 5552.0, 5693.0, 5444.0, 5690.0, 5462.0, 5532.0, 5517.0, 5337.0, 5643.0, 5433.0, 5594.0, 5674.0, 5602.0, 5251.0, 5597.0, 5670.0, 5519.0, 5627.0, 5589.0, 5528.0, 5695.0, 5715.0, 5647.0, 5410.0, 5439.0, 5425.0, 5302.0, 5596.0, 5522.0, 5358.0, 5452.0, 5377.0, 5406.0, 5667.0, 5303.0 (number of hits: 16)
16	5290	9	1	333	1	5418.0, 5592.0, 5714.0, 5635.0, 5600.0, 5622.0, 5302.0, 5375.0, 5614.0, 5467.0, 5415.0, 5316.0, 5297.0, 5330.0, 5722.0, 5461.0, 5494.0, 5551.0, 5486.0, 5354.0, 5277.0, 5431.0, 5308.0, 5535.0, 5448.0, 5549.0, 5598.0, 5432.0, 5649.0, 5577.0, 5466.0, 5340.0, 5453.0, 5417.0, 5299.0, 5585.0, 5644.0, 5324.0, 5303.0, 5339.0, 5414.0, 5411.0, 5573.0, 5589.0, 5434.0, 5673.0, 5498.0, 5290.0, 5594.0, 5522.0, 5425.0, 5480.0, 5360.0, 5518.0, 5567.0, 5477.0, 5416.0, 5568.0, 5378.0, 5624.0, 5604.0, 5369.0, 5256.0, 5666.0, 5321.0, 5703.0, 5689.0, 5314.0, 5365.0, 5571.0, 5251.0, 5458.0, 5372.0, 5382.0, 5410.0, 5384.0, 5309.0, 5315.0, 5669.0, 5684.0, 5474.0, 5687.0, 5394.0, 5408.0, 5525.0, 5557.0, 5347.0, 5373.0, 5683.0, 5400.0, 5317.0, 5283.0, 5368.0, 5436.0, 5723.0, 5546.0, 5481.0, 5533.0, 5716.0, 5628.0 (number of hits: 17)
17	5290	9	1	333	1	5259.0, 5606.0, 5402.0, 5515.0, 5366.0, 5496.0, 5713.0, 5691.0, 5623.0, 5672.0, 5570.0, 5323.0, 5404.0, 5520.0, 5566.0, 5291.0, 5255.0, 5400.0, 5458.0, 5398.0, 5457.0, 5509.0, 5466.0, 5314.0, 5719.0, 5721.0, 5480.0, 5370.0, 5356.0, 5505.0, 5652.0, 5641.0, 5657.0, 5640.0, 5560.0, 5637.0, 5716.0, 5348.0, 5542.0, 5576.0, 5478.0, 5535.0, 5557.0, 5636.0, 5448.0, 5620.0, 5593.0, 5347.0, 5297.0, 5568.0, 5302.0, 5635.0, 5536.0, 5265.0, 5659.0, 5281.0, 5303.0, 5269.0, 5456.0, 5506.0,

						5718.0, 5565.0, 5698.0, 5522.0, 5486.0, 5326.0, 5583.0, 5662.0, 5722.0, 5567.0, 5611.0, 5704.0, 5278.0, 5479.0, 5562.0, 5360.0, 5485.0, 5712.0, 5272.0, 5692.0, 5483.0, 5403.0, 5312.0, 5443.0, 5431.0, 5333.0, 5710.0, 5394.0, 5350.0, 5595.0, 5428.0, 5696.0, 5711.0, 5717.0, 5270.0, 5490.0, 5437.0, 5414.0, 5290.0, 5376.0 (number of hits: 17)
18	5290	9	1	333	1	5326.0, 5696.0, 5650.0, 5453.0, 5554.0, 5523.0, 5442.0, 5606.0, 5327.0, 5320.0, 5461.0, 5353.0, 5705.0, 5315.0, 5548.0, 5472.0, 5716.0, 5581.0, 5493.0, 5367.0, 5288.0, 5555.0, 5640.0, 5408.0, 5561.0, 5370.0, 5536.0, 5423.0, 5357.0, 5391.0, 5604.0, 5533.0, 5420.0, 5481.0, 5336.0, 5331.0, 5658.0, 5280.0, 5468.0, 5477.0, 5339.0, 5399.0, 5630.0, 5416.0, 5531.0, 5619.0, 5617.0, 5257.0, 5702.0, 5571.0, 5411.0, 5440.0, 5666.0, 5252.0, 5467.0, 5556.0, 5425.0, 5346.0, 5625.0, 5530.0, 5565.0, 5428.0, 5677.0, 5629.0, 5385.0, 5579.0, 5422.0, 5361.0, 5663.0, 5456.0, 5271.0, 5628.0, 5589.0, 5379.0, 5601.0, 5407.0, 5350.0, 5285.0, 5392.0, 5544.0, 5577.0, 5349.0, 5594.0, 5430.0, 5549.0, 5395.0, 5506.0, 5676.0, 5369.0, 5543.0, 5276.0, 5680.0, 5720.0, 5328.0, 5514.0, 5688.0, 5652.0, 5380.0, 5394.0, 5283.0 (number of hits: 13)
19	5290	9	1	333	1	5648.0, 5434.0, 5276.0, 5468.0, 5685.0, 5707.0, 5543.0, 5562.0, 5331.0, 5280.0, 5395.0, 5394.0, 5453.0, 5700.0, 5670.0, 5391.0, 5409.0, 5708.0, 5462.0, 5386.0, 5298.0, 5270.0, 5299.0, 5449.0, 5334.0, 5472.0, 5571.0, 5399.0, 5275.0, 5260.0, 5364.0, 5519.0, 5467.0, 5689.0, 5475.0, 5638.0, 5471.0, 5483.0, 5704.0, 5384.0, 5281.0, 5269.0, 5552.0, 5582.0, 5348.0, 5698.0, 5675.0, 5304.0, 5349.0, 5481.0, 5673.0, 5614.0, 5480.0, 5344.0, 5549.0, 5577.0, 5492.0, 5603.0, 5291.0, 5353.0, 5662.0, 5563.0, 5710.0, 5585.0, 5271.0, 5321.0, 5579.0, 5445.0, 5691.0, 5586.0, 5450.0, 5720.0, 5446.0, 5486.0, 5631.0, 5609.0, 5686.0, 5688.0, 5561.0, 5622.0, 5319.0, 5372.0, 5505.0, 5513.0, 5318.0, 5528.0, 5338.0, 5420.0, 5300.0, 5511.0, 5514.0, 5451.0, 5383.0, 5311.0, 5497.0, 5696.0, 5623.0, 5433.0, 5454.0, 5531.0 (number of hits: 17)
20	5290	9	1	333	1	5679.0, 5676.0, 5427.0, 5663.0, 5554.0, 5563.0, 5374.0, 5284.0, 5251.0, 5630.0, 5362.0, 5535.0, 5439.0, 5602.0, 5584.0, 5600.0, 5544.0, 5541.0, 5379.0, 5700.0, 5720.0, 5269.0, 5396.0, 5263.0, 5578.0, 5509.0, 5647.0, 5394.0, 5713.0, 5523.0, 5337.0, 5360.0, 5391.0, 5593.0, 5347.0, 5670.0, 5435.0, 5717.0, 5719.0, 5606.0,

						5255.0, 5721.0, 5357.0, 5372.0, 5571.0, 5339.0, 5341.0, 5568.0, 5589.0, 5654.0, 5395.0, 5549.0, 5668.0, 5573.0, 5461.0, 5359.0, 5423.0, 5716.0, 5468.0, 5411.0, 5696.0, 5385.0, 5278.0, 5604.0, 5363.0, 5253.0, 5258.0, 5493.0, 5291.0, 5465.0, 5406.0, 5402.0, 5310.0, 5477.0, 5399.0, 5540.0, 5697.0, 5472.0, 5401.0, 5452.0, 5533.0, 5380.0, 5715.0, 5669.0, 5710.0, 5319.0, 5591.0, 5579.0, 5530.0, 5375.0, 5528.0, 5486.0, 5636.0, 5386.0, 5361.0, 5287.0, 5264.0, 5698.0, 5434.0, 5510.0 (number of hits: 13)
21	5290	9	1	333	1	5398.0, 5612.0, 5407.0, 5531.0, 5348.0, 5455.0, 5360.0, 5291.0, 5499.0, 5305.0, 5564.0, 5552.0, 5532.0, 5602.0, 5298.0, 5323.0, 5382.0, 5334.0, 5619.0, 5624.0, 5370.0, 5671.0, 5540.0, 5506.0, 5597.0, 5337.0, 5339.0, 5689.0, 5286.0, 5630.0, 5302.0, 5275.0, 5712.0, 5610.0, 5376.0, 5258.0, 5375.0, 5303.0, 5466.0, 5322.0, 5279.0, 5349.0, 5695.0, 5533.0, 5668.0, 5366.0, 5498.0, 5707.0, 5417.0, 5580.0, 5515.0, 5697.0, 5269.0, 5463.0, 5424.0, 5530.0, 5299.0, 5606.0, 5496.0, 5511.0, 5587.0, 5701.0, 5383.0, 5296.0, 5508.0, 5637.0, 5426.0, 5577.0, 5480.0, 5607.0, 5486.0, 5608.0, 5699.0, 5599.0, 5395.0, 5328.0, 5591.0, 5673.0, 5622.0, 5500.0, 5524.0, 5510.0, 5675.0, 5453.0, 5694.0, 5356.0, 5386.0, 5713.0, 5410.0, 5437.0, 5465.0, 5571.0, 5545.0, 5558.0, 5489.0, 5613.0, 5406.0, 5536.0, 5557.0, 5472.0 (number of hits: 15)
22	5290	9	1	333	1	5347.0, 5294.0, 5448.0, 5526.0, 5321.0, 5398.0, 5291.0, 5677.0, 5421.0, 5670.0, 5290.0, 5629.0, 5681.0, 5427.0, 5329.0, 5452.0, 5283.0, 5357.0, 5451.0, 5305.0, 5276.0, 5424.0, 5295.0, 5349.0, 5422.0, 5550.0, 5690.0, 5508.0, 5293.0, 5712.0, 5653.0, 5479.0, 5381.0, 5539.0, 5616.0, 5407.0, 5668.0, 5412.0, 5399.0, 5569.0, 5455.0, 5334.0, 5501.0, 5379.0, 5484.0, 5665.0, 5612.0, 5488.0, 5391.0, 5438.0, 5715.0, 5631.0, 5350.0, 5481.0, 5561.0, 5423.0, 5689.0, 5436.0, 5343.0, 5482.0, 5505.0, 5475.0, 5335.0, 5620.0, 5275.0, 5600.0, 5325.0, 5390.0, 5465.0, 5560.0, 5420.0, 5459.0, 5647.0, 5621.0, 5440.0, 5659.0, 5447.0, 5583.0, 5469.0, 5564.0, 5342.0, 5310.0, 5559.0, 5271.0, 5316.0, 5268.0, 5485.0, 5573.0, 5687.0, 5571.0, 5627.0, 5622.0, 5671.0, 5277.0, 5339.0, 5385.0, 5540.0, 5315.0, 5262.0, 5551.0 (number of hits: 19)
23	5290	9	1	333	1	5621.0, 5517.0, 5633.0, 5543.0, 5638.0, 5524.0, 5557.0, 5483.0, 5339.0, 5277.0, 5696.0, 5399.0, 5721.0, 5269.0, 5558.0, 5417.0, 5428.0, 5655.0, 5504.0, 5271.0,

						5475.0, 5335.0, 5375.0, 5301.0, 5537.0, 5707.0, 5581.0, 5603.0, 5709.0, 5322.0, 5466.0, 5282.0, 5646.0, 5250.0, 5664.0, 5720.0, 5369.0, 5430.0, 5432.0, 5286.0, 5295.0, 5366.0, 5384.0, 5717.0, 5569.0, 5677.0, 5421.0, 5443.0, 5578.0, 5449.0, 5650.0, 5698.0, 5662.0, 5565.0, 5519.0, 5320.0, 5473.0, 5374.0, 5267.0, 5637.0, 5368.0, 5325.0, 5665.0, 5656.0, 5584.0, 5378.0, 5640.0, 5343.0, 5487.0, 5396.0, 5507.0, 5690.0, 5594.0, 5261.0, 5486.0, 5462.0, 5674.0, 5511.0, 5509.0, 5349.0, 5446.0, 5423.0, 5660.0, 5311.0, 5424.0, 5471.0, 5568.0, 5713.0, 5652.0, 5367.0, 5531.0, 5371.0, 5278.0, 5641.0, 5262.0, 5643.0, 5503.0, 5408.0, 5601.0, 5639.0 (number of hits: 16)
24	5290	9	1	333	1	5617.0, 5687.0, 5416.0, 5375.0, 5308.0, 5339.0, 5642.0, 5678.0, 5301.0, 5520.0, 5658.0, 5572.0, 5571.0, 5598.0, 5333.0, 5481.0, 5452.0, 5360.0, 5719.0, 5563.0, 5383.0, 5603.0, 5680.0, 5594.0, 5606.0, 5394.0, 5373.0, 5304.0, 5513.0, 5476.0, 5335.0, 5560.0, 5431.0, 5341.0, 5400.0, 5683.0, 5432.0, 5271.0, 5307.0, 5366.0, 5418.0, 5593.0, 5289.0, 5549.0, 5252.0, 5273.0, 5393.0, 5419.0, 5661.0, 5470.0, 5412.0, 5542.0, 5709.0, 5654.0, 5306.0, 5464.0, 5317.0, 5321.0, 5487.0, 5279.0, 5558.0, 5346.0, 5676.0, 5480.0, 5322.0, 5688.0, 5536.0, 5553.0, 5334.0, 5424.0, 5636.0, 5723.0, 5677.0, 5693.0, 5535.0, 5314.0, 5620.0, 5534.0, 5421.0, 5615.0, 5613.0, 5277.0, 5451.0, 5453.0, 5305.0, 5302.0, 5675.0, 5580.0, 5696.0, 5616.0, 5716.0, 5420.0, 5703.0, 5608.0, 5490.0, 5607.0, 5376.0, 5460.0, 5601.0, 5473.0 (number of hits: 17)
25	5290	9	1	333	1	5366.0, 5300.0, 5572.0, 5261.0, 5612.0, 5448.0, 5480.0, 5276.0, 5328.0, 5564.0, 5342.0, 5368.0, 5618.0, 5636.0, 5631.0, 5601.0, 5406.0, 5664.0, 5681.0, 5687.0, 5352.0, 5256.0, 5617.0, 5375.0, 5530.0, 5688.0, 5469.0, 5396.0, 5560.0, 5595.0, 5690.0, 5591.0, 5268.0, 5466.0, 5338.0, 5523.0, 5704.0, 5463.0, 5606.0, 5583.0, 5581.0, 5319.0, 5642.0, 5340.0, 5532.0, 5337.0, 5471.0, 5387.0, 5408.0, 5501.0, 5513.0, 5528.0, 5597.0, 5334.0, 5585.0, 5567.0, 5602.0, 5657.0, 5504.0, 5545.0, 5648.0, 5382.0, 5465.0, 5277.0, 5289.0, 5665.0, 5683.0, 5391.0, 5579.0, 5386.0, 5539.0, 5449.0, 5698.0, 5554.0, 5303.0, 5586.0, 5483.0, 5415.0, 5292.0, 5351.0, 5587.0, 5627.0, 5433.0, 5310.0, 5584.0, 5311.0, 5694.0, 5546.0, 5486.0, 5309.0, 5254.0, 5544.0, 5264.0, 5365.0, 5384.0, 5614.0, 5638.0, 5452.0, 5574.0, 5531.0 (number of hits: 16)

26	5290	9	1	333	1	5711.0, 5372.0, 5436.0, 5574.0, 5408.0, 5576.0, 5368.0, 5606.0, 5374.0, 5673.0, 5670.0, 5595.0, 5387.0, 5412.0, 5285.0, 5464.0, 5560.0, 5376.0, 5425.0, 5696.0, 5707.0, 5309.0, 5251.0, 5615.0, 5612.0, 5336.0, 5450.0, 5342.0, 5622.0, 5330.0, 5299.0, 5657.0, 5302.0, 5529.0, 5365.0, 5488.0, 5583.0, 5712.0, 5492.0, 5292.0, 5689.0, 5510.0, 5508.0, 5268.0, 5517.0, 5649.0, 5489.0, 5702.0, 5334.0, 5705.0, 5427.0, 5482.0, 5453.0, 5378.0, 5650.0, 5277.0, 5400.0, 5692.0, 5724.0, 5261.0, 5444.0, 5260.0, 5630.0, 5591.0, 5433.0, 5383.0, 5306.0, 5457.0, 5629.0, 5515.0, 5392.0, 5552.0, 5551.0, 5354.0, 5271.0, 5656.0, 5526.0, 5661.0, 5634.0, 5620.0, 5360.0, 5646.0, 5686.0, 5490.0, 5300.0, 5415.0, 5563.0, 5377.0, 5266.0, 5429.0, 5352.0, 5611.0, 5375.0, 5475.0, 5411.0, 5545.0, 5518.0, 5445.0, 5674.0, 5623.0 (number of hits: 14)
27	5290	9	1	333	1	5533.0, 5531.0, 5439.0, 5307.0, 5667.0, 5479.0, 5431.0, 5677.0, 5389.0, 5634.0, 5474.0, 5709.0, 5693.0, 5592.0, 5600.0, 5449.0, 5532.0, 5635.0, 5627.0, 5308.0, 5647.0, 5628.0, 5664.0, 5356.0, 5564.0, 5584.0, 5285.0, 5706.0, 5653.0, 5558.0, 5676.0, 5637.0, 5306.0, 5521.0, 5687.0, 5626.0, 5527.0, 5671.0, 5681.0, 5254.0, 5337.0, 5609.0, 5632.0, 5711.0, 5515.0, 5264.0, 5250.0, 5458.0, 5292.0, 5661.0, 5403.0, 5454.0, 5358.0, 5266.0, 5391.0, 5280.0, 5399.0, 5289.0, 5445.0, 5374.0, 5471.0, 5377.0, 5529.0, 5572.0, 5257.0, 5595.0, 5495.0, 5582.0, 5320.0, 5708.0, 5704.0, 5500.0, 5641.0, 5424.0, 5598.0, 5393.0, 5685.0, 5294.0, 5674.0, 5401.0, 5367.0, 5407.0, 5574.0, 5371.0, 5450.0, 5562.0, 5518.0, 5629.0, 5535.0, 5633.0, 5462.0, 5516.0, 5563.0, 5436.0, 5466.0, 5673.0, 5569.0, 5468.0, 5286.0, 5397.0 (number of hits: 15)
28	5290	9	1	333	1	5506.0, 5379.0, 5290.0, 5278.0, 5683.0, 5378.0, 5397.0, 5294.0, 5556.0, 5715.0, 5709.0, 5414.0, 5632.0, 5451.0, 5380.0, 5360.0, 5605.0, 5552.0, 5668.0, 5520.0, 5497.0, 5442.0, 5257.0, 5560.0, 5286.0, 5276.0, 5586.0, 5724.0, 5648.0, 5676.0, 5440.0, 5436.0, 5305.0, 5405.0, 5591.0, 5710.0, 5712.0, 5260.0, 5649.0, 5614.0, 5602.0, 5494.0, 5479.0, 5544.0, 5296.0, 5672.0, 5514.0, 5432.0, 5293.0, 5273.0, 5348.0, 5711.0, 5328.0, 5264.0, 5455.0, 5615.0, 5413.0, 5630.0, 5331.0, 5466.0, 5613.0, 5445.0, 5564.0, 5390.0, 5343.0, 5251.0, 5262.0, 5538.0, 5314.0, 5549.0, 5498.0, 5487.0, 5694.0, 5374.0, 5625.0, 5646.0, 5526.0, 5673.0, 5680.0, 5629.0, 5609.0, 5594.0, 5269.0, 5453.0, 5685.0,

						5523.0, 5600.0, 5606.0, 5637.0, 5663.0, 5357.0, 5433.0, 5688.0, 5687.0, 5512.0, 5477.0, 5542.0, 5253.0, 5671.0, 5476.0 (number of hits: 18)
29	5290	9	1	333	1	5269.0, 5522.0, 5511.0, 5689.0, 5670.0, 5557.0, 5258.0, 5516.0, 5676.0, 5561.0, 5578.0, 5254.0, 5330.0, 5677.0, 5531.0, 5253.0, 5510.0, 5301.0, 5377.0, 5696.0, 5262.0, 5721.0, 5641.0, 5562.0, 5723.0, 5328.0, 5672.0, 5502.0, 5583.0, 5437.0, 5270.0, 5666.0, 5563.0, 5338.0, 5292.0, 5540.0, 5551.0, 5702.0, 5267.0, 5658.0, 5604.0, 5263.0, 5610.0, 5499.0, 5685.0, 5537.0, 5264.0, 5539.0, 5423.0, 5720.0, 5382.0, 5388.0, 5418.0, 5368.0, 5474.0, 5533.0, 5630.0, 5326.0, 5447.0, 5567.0, 5436.0, 5294.0, 5624.0, 5665.0, 5625.0, 5590.0, 5679.0, 5449.0, 5309.0, 5306.0, 5619.0, 5492.0, 5639.0, 5488.0, 5541.0, 5400.0, 5661.0, 5648.0, 5343.0, 5319.0, 5675.0, 5315.0, 5553.0, 5324.0, 5701.0, 5419.0, 5514.0, 5407.0, 5634.0, 5366.0, 5469.0, 5450.0, 5663.0, 5534.0, 5348.0, 5363.0, 5464.0, 5435.0, 5683.0, 5574.0 (number of hits: 19)
30	5290	9	1	333	1	5465.0, 5593.0, 5668.0, 5577.0, 5505.0, 5526.0, 5660.0, 5498.0, 5406.0, 5644.0, 5582.0, 5698.0, 5414.0, 5338.0, 5515.0, 5292.0, 5648.0, 5370.0, 5690.0, 5269.0, 5670.0, 5499.0, 5661.0, 5396.0, 5621.0, 5497.0, 5328.0, 5514.0, 5301.0, 5703.0, 5623.0, 5300.0, 5463.0, 5258.0, 5664.0, 5705.0, 5480.0, 5672.0, 5415.0, 5333.0, 5574.0, 5400.0, 5516.0, 5355.0, 5378.0, 5493.0, 5385.0, 5481.0, 5405.0, 5708.0, 5255.0, 5416.0, 5452.0, 5351.0, 5489.0, 5637.0, 5583.0, 5579.0, 5485.0, 5403.0, 5254.0, 5318.0, 5652.0, 5700.0, 5363.0, 5604.0, 5506.0, 5675.0, 5344.0, 5711.0, 5618.0, 5659.0, 5686.0, 5440.0, 5257.0, 5479.0, 5432.0, 5390.0, 5450.0, 5362.0, 5702.0, 5667.0, 5271.0, 5559.0, 5692.0, 5476.0, 5588.0, 5455.0, 5377.0, 5545.0, 5651.0, 5373.0, 5523.0, 5676.0, 5646.0, 5665.0, 5566.0, 5381.0, 5410.0, 5270.0 (number of hits: 12)

5500 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	80 %	60%	Pass
Aggregate (Type1 to 4)	120	95 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	83.3 %	70%	Pass

Please refer to the following statistical tables:

5500 MHz, 20 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	59	1	898	1
2	5500	92	1	578	1
3	5500	83	1	638	1
4	5500	95	1	558	1
5	5500	76	1	698	1
6	5500	61	1	878	1
7	5500	65	1	818	1
8	5500	99	1	538	1
9	5500	62	1	858	1
10	5500	67	1	798	1
11	5500	57	1	938	1
12	5500	81	1	658	1
13	5500	102	1	518	1
14	5500	74	1	718	1
15	5500	70	1	758	1
16	5500	40	1	1327	1
17	5500	18	1	2938	1
18	5500	19	1	2820	1
19	5500	47	1	1129	1
20	5500	25	1	2185	1
21	5500	33	1	1605	1
22	5500	19	1	2795	1
23	5500	29	1	1838	1
24	5500	49	1	1089	1
25	5500	32	1	1674	1
26	5500	28	1	1911	1
27	5500	84	1	632	1
28	5500	39	1	1364	1
29	5500	20	1	2655	1
30	5500	80	1	667	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	23	1	175	1
2	5500	26	1	202	1
3	5500	23	3.7	160	1
4	5500	25	4.9	229	1
5	5500	28	1.6	205	1
6	5500	29	3.1	154	1
7	5500	24	2.7	172	1
8	5500	23	1.3	174	1
9	5500	23	1	179	1
10	5500	29	3.4	218	1
11	5500	27	2.6	188	1
12	5500	28	3.6	214	1
13	5500	26	4.5	159	1
14	5500	25	1.7	187	1
15	5500	28	4.7	165	1
16	5500	24	1.4	191	1
17	5500	24	2.7	167	1
18	5500	29	1.3	221	1
19	5500	24	2.4	185	1
20	5500	23	3.9	217	1
21	5500	25	3.9	199	1
22	5500	27	4.2	164	1
23	5500	25	3.1	177	1
24	5500	25	3.3	179	1
25	5500	24	5	175	1
26	5500	28	1.7	160	1
27	5500	25	1	172	1
28	5500	29	2	179	1
29	5500	28	4.6	215	1
30	5500	27	2.7	180	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	18	9.1	427	1
2	5500	17	7.8	480	1
3	5500	16	8.4	394	1
4	5500	16	6.4	413	1
5	5500	17	6.6	280	1
6	5500	16	6.7	429	1
7	5500	18	6.9	252	1
8	5500	16	6.3	319	1
9	5500	18	6.9	498	1
10	5500	16	6.3	293	1
11	5500	18	6	241	1
12	5500	16	7.8	205	1
13	5500	16	8.9	473	1
14	5500	18	7.6	329	1
15	5500	16	8.3	400	1
16	5500	18	8.7	301	1
17	5500	16	9.2	331	1
18	5500	16	8.3	385	1
19	5500	17	8.7	490	1
20	5500	17	8.3	279	1
21	5500	18	7.8	252	1
22	5500	17	9.6	442	1
23	5500	18	7.3	400	1
24	5500	18	7.6	482	1
25	5500	18	7.4	478	1
26	5500	18	7.4	387	1
27	5500	18	9.5	394	1
28	5500	18	9.2	354	1
29	5500	18	9.1	411	1
30	5500	17	7	337	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	15	13.6	276	1
2	5500	15	11.3	398	1
3	5500	16	11.7	203	1
4	5500	16	18.9	375	1
5	5500	13	15.3	286	1
6	5500	13	18.9	335	1
7	5500	14	17.1	221	0
8	5500	12	12.5	202	0
9	5500	13	11.9	213	0
10	5500	13	19.5	215	1
11	5500	15	16.7	256	1
12	5500	16	13.1	309	1
13	5500	15	11.2	463	1
14	5500	14	11.9	487	0
15	5500	12	11.5	202	0
16	5500	12	16.7	331	1
17	5500	13	13.1	369	1
18	5500	14	17.3	358	1
19	5500	12	19.2	389	1
20	5500	13	16.5	439	1
21	5500	13	15.9	468	0
22	5500	14	11.2	380	1
23	5500	15	17.8	347	1
24	5500	15	12.6	240	1
25	5500	14	12.8	290	1
26	5500	12	14.7	320	1
27	5500	16	19.5	421	1
28	5500	15	16.1	324	1
29	5500	16	19.6	395	1
30	5500	15	12.4	287	1
Detection Percentage: 80 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500	1
2	5500	1
3	5500	1
4	5500	1
5	5500	1
6	5500	1
7	5500	1
8	5500	1
9	5500	1
10	5500	1
11	5495.1	1
12	5493.9	1
13	5495.1	1
14	5494.3	1
15	5495.9	1
16	5499.5	1
17	5493.9	1
18	5497.5	1
19	5493.5	1
20	5498.7	1
21	5507.2	1
22	5502.8	1
23	5503.2	1
24	5507.6	1
25	5502.4	1
26	5504.8	1
27	5507.2	1
28	5505.2	1
29	5502.4	1
30	5505.6	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	80.4	1065		0.744137	
1	1	7	71.4			1.481774	
2	2	7	86.6	1710		3.844887	
3	3	7	79.2	1882	1290	5.237892	
4	2	7	81.7	1542		6.125148	1
5	2	7	78.7	1040		6.779248	
6	2	7	55.4	1935		8.376809	
7	3	7	67.8	1227	1875	10.564959	
8	2	7	68.8	1520		11.365351	

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	16	58.8	1250	1218	0.024921	
1	1	16	64.2			1.38857	
2	1	16	98.6			2.81775	
3	1	16	79.2			3.271408	
4	3	16	60.3	1329	1360	4.67561	1
5	1	16	96			5.092368	
6	2	16	83.5	1788		6.172672	
7	2	16	80.4	1060		7.160806	
8	3	16	77.2	1974	1029	8.449321	

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	9	60.6	1583		0.197228	1
1	3	9	65	1927	1824	1.37312	
2	2	9	87.4	1500		2.484072	
3	1	9	58.7			3.719686	
4	2	9	83.1	1110		4.975974	
5	2	9	86.4	1223		5.155069	
6	2	9	50.1	1832		6.803332	
7	3	9	71.8	1728	1378	7.403316	
8	1	9	96.3			8.720954	
9	2	9	94.9	1608		9.733311	
10	2	9	72.2	1286		10.940467	
11	2	9	81.3	1201		11.326651	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	50.1	1959	1808	0.128771	1
1	2	10	97.1	1753		1.263291	
2	2	10	51.4	1818		2.873707	
3	2	10	78.3	1500		3.80622	
4	2	10	59.8	1578		4.934773	
5	2	10	83.3	1353		5.535163	
6	2	10	50.1	1838		6.570625	
7	3	10	61	1868	1729	7.797558	
8	1	10	57.3			9.16264	
9	3	10	51.3	1917	1400	10.332298	
10	2	10	74.4	1135		11.419006	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	73.4	1472	1004	0.186998	
1	2	9	53	1358		1.160683	
2	2	9	69.9	1735		2.403345	
3	1	9	81.7			3.638225	
4	1	9	50.7			5.303699	
5	3	9	86.5	1430	1948	5.82954	1
6	3	9	92.9	1690	1645	7.568552	
7	1	9	58.9			7.698456	
8	2	9	67.2	1154		9.714835	
9	1	9	98.4			10.323249	
10	1	9	71.5			11.172666	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	67.8	1945	1079	0.482173	
1	2	14	98.7	1314		1.245512	
2	3	14	84.9	1218	1951	1.90402	
3	1	14	85.9			2.580332	
4	2	14	64.3	1230		3.078697	
5	3	14	60.6	1976	1453	3.863958	
6	3	14	66.7	1157	1085	5.184131	
7	1	14	89.4			5.558711	
8	1	14	94			6.687562	1
9	1	14	75.7			6.935047	
10	1	14	81.7			7.621008	
11	2	14	71.9	1933		8.389006	
12	1	14	96.3			9.331122	
13	3	14	100	1779	1230	9.857934	
14	1	14	70.6			10.873034	
15	1	14	82.6			11.502841	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	70.9	1426		0.559824	1
1	2	14	84.4	1152		0.882198	
2	2	14	59.8	1887		1.809549	
3	1	14	92.6			2.486313	
4	3	14	95.6	1657	1922	3.122114	
5	2	14	76.6	1956		4.035761	
6	3	14	71.8	1568	1189	5.011242	
7	2	14	74.1	1882		5.656511	
8	2	14	99.1	1099		6.644338	
9	1	14	50.5			6.764381	
10	2	14	83.8	1300		8.075685	
11	2	14	52.2	1054		8.393206	
12	2	14	83.7	1650		9.361823	
13	3	14	91.4	1822	1580	10.417133	
14	2	14	68.3	1344		11.14371	
15	2	14	68.1	1592		11.857977	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	53.5	1054		0.026858	
1	3	12	90.2	1840	1728	1.741756	
2	1	12	89.1			2.902572	
3	2	12	84.7	1015		3.822791	
4	2	12	77.2	1997		4.370845	
5	3	12	77.2	1013	1895	5.558373	1
6	3	12	63.4	1966	1025	7.133539	
7	1	12	57.4			8.549689	
8	1	12	55.7			9.675154	
9	2	12	78.1	1883		10.250308	
10	1	12	93.5			11.7215	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	90.2			0.480466	
1	2	9	73.9	1240		1.363616	
2	1	9	59.3			2.575819	
3	1	9	96			3.452628	
4	3	9	55.2	1315	1253	5.039359	
5	2	9	67.8	1065		6.424585	1
6	2	9	75.1	1768		7.275061	
7	3	9	71.4	1919	1287	8.364478	
8	3	9	52.9	1654	1403	9.242621	
9	2	9	51.1	1928		10.678769	
10	2	9	88	1956		11.403388	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	51.6	1173		0.359357	1
1	2	12	93.6	1007		1.201647	
2	2	12	59.4	1049		2.311976	
3	3	12	73.4	1094	1921	3.334428	
4	1	12	57.8			3.880886	
5	2	12	95.7	1018		4.81208	
6	2	12	92.8	1833		5.833894	
7	2	12	71.3	1490		6.221567	
8	2	12	86.3	1363		7.449358	
9	1	12	71.2			8.352903	
10	3	12	92.7	1097	1280	9.308515	
11	2	12	67.1	1884		10.122724	
12	2	12	67.9	1403		10.452884	
13	2	12	69.9	1109		11.289686	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	71.5	1952		0.545463	1
1	3	9	76.3	1004	1670	0.90737	
2	3	9	82.5	1451	1156	1.911007	
3	3	9	87.5	1137	1100	2.123694	
4	3	9	59.1	1603	1341	3.035131	
5	1	9	52.6			3.724009	
6	2	9	81	1565		4.528315	
7	3	9	57.7	1524	1987	5.262985	
8	2	9	67.7	1440		5.837808	
9	2	9	82.4	1254		6.24036	
10	3	9	55	1634	1664	7.31584	
11	1	9	78.1			7.994673	
12	3	9	83.3	1526	1897	8.225379	
13	2	9	54.4	1332		8.865678	
14	2	9	66.8	1513		9.878278	
15	2	9	57	1388		10.108283	
16	2	9	66.6	1166		11.099554	
17	2	9	97.3	1094		11.859947	

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	6	88.5	1165		0.326375	1
1	2	6	76.8	1498		0.937735	
2	2	6	57	1615		2.242915	
3	3	6	50.2	1647	1584	2.49183	
4	1	6	83.2			3.353219	
5	1	6	58.6			4.064309	
6	2	6	99.9	1816		5.594026	
7	2	6	77	1887		6.172817	
8	3	6	90.1	1305	1744	7.179713	
9	2	6	75.5	1801		7.437045	
10	3	6	50.8	1883	1406	8.653412	
11	3	6	75.4	1966	1538	9.577933	
12	2	6	61.5	1814		9.753121	
13	3	6	78.1	1478	1996	10.500192	
14	1	6	95.8			11.863896	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	62.7			0.189673	
1	3	9	80.2	1336	1021	1.216608	
2	3	9	91	1980	1265	1.967459	
3	2	9	55.6	1323		3.082787	
4	3	9	87.9	1462	1190	3.487592	
5	2	9	70.5	1584		4.068735	
6	3	9	92.7	1575	1555	5.088433	
7	2	9	86.7	1851		6.241341	1
8	3	9	74.2	1703	1622	6.830185	
9	3	9	89.3	1590	1953	7.463355	
10	1	9	51			8.497447	
11	2	9	63.9	1906		9.447717	
12	3	9	96.5	1813	1700	10.249429	
13	2	9	58.9	1445		10.501452	
14	2	9	58.4	1116		11.700693	

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	7	76.5	1817		0.684754	
1	2	7	72.7	1125		0.799679	
2	1	7	66.4			1.990948	
3	1	7	58.8			2.624379	
4	1	7	66.6			3.347077	
5	1	7	70			4.224322	
6	1	7	96.5			4.81144	
7	1	7	58.3			5.64317	
8	2	7	66.5	1158		5.75865	1
9	3	7	68.9	1465	1354	6.797373	
10	2	7	58.5	1388		7.550646	
11	3	7	86.6	1126	1528	8.20694	
12	1	7	67.6			8.75181	
13	1	7	61.8			9.394126	
14	1	7	98.6			10.4889	
15	2	7	84.6	1746		11.046376	
16	2	7	72.6	1176		11.364471	

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	11	76.9			0.910312	1
1	2	11	88.9	1162		2.50714	
2	1	11	72.3			4.013165	
3	2	11	53.9	1625		5.301442	
4	1	11	81.1			7.267315	
5	3	11	57	1667	1880	8.447152	
6	1	11	99			9.89003	
7	1	11	90.2			11.453732	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	20	62.9	1849		0.770849	1
1	1	20	67.4			1.132982	
2	2	20	88.7	1695		2.288095	
3	2	20	71.9	1800		2.939053	
4	1	20	97.7			3.477138	
5	2	20	68.2	1743		4.410692	
6	2	20	98.7	1142		5.269231	
7	1	20	99.7			5.943023	
8	1	20	55.8			6.76514	
9	3	20	77.4	1986	1773	7.360401	
10	1	20	76.3			8.618835	
11	3	20	70.6	1444	1522	9.200611	
12	1	20	58			10.296759	
13	1	20	70.6			10.734753	
14	3	20	59.9	1551	1386	11.963155	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	93.9	1905		0.381246	
1	2	6	58.1	1840		1.152854	
2	1	6	99.1			1.650226	
3	2	6	66.8	1474		2.207958	
4	2	6	52.9	1175		3.511778	
5	2	6	96.3	1463		4.151225	
6	2	6	53.6	1001		4.633128	
7	3	6	64.2	1904	1969	5.534143	
8	2	6	88.4	1187		5.801177	1
9	2	6	91.5	1079		6.701037	
10	1	6	73.3			7.723019	
11	3	6	91.9	1816	1475	8.45529	
12	2	6	84.3	1667		8.699595	
13	1	6	78.2			9.490474	
14	3	6	64.9	1740	1198	10.06512	
15	3	6	56.3	1195	1948	10.612363	
16	3	6	70.4	1552	1384	11.557262	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	51.4	1800		0.248319	
1	1	15	52.9			0.915827	
2	2	15	64.9	1383		1.523267	
3	2	15	59.2	1018		2.765553	
4	2	15	97.7	1934		3.49371	
5	3	15	92.7	1961	1285	3.878809	
6	3	15	59	1676	1003	4.68109	
7	2	15	99.2	1834		5.260212	
8	1	15	98.2			6.10699	1
9	1	15	72.1			7.043449	
10	1	15	87			7.54884	
11	1	15	80			8.833135	
12	3	15	74.5	1736	1935	9.307715	
13	1	15	72.6			10.042691	
14	3	15	53.7	1319	1444	10.716217	
15	1	15	51.8			11.399432	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	92.5	1229		0.031799	1
1	3	5	93.3	1944	1013	1.673124	
2	1	5	63.5			3.400503	
3	2	5	82.9	1644		5.893951	
4	2	5	53	1523		6.753564	
5	2	5	74.9	1031		8.959907	
6	2	5	59.8	1093		9.472858	
7	2	5	70.3	1878		10.503849	

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	18	68.8	1673		1.155661	1
1	3	18	76.4	1005	1085	2.791134	
2	1	18	96.3			3.264999	
3	2	18	67.7	1904		4.839961	
4	2	18	57.5	1375		6.458687	
5	3	18	89.2	1690	1190	8.353642	
6	1	18	53.5			9.784314	
7	1	18	73.3			11.557858	

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	7	56	1584		0.604921	
1	1	7	64.8			1.200296	
2	1	7	90.2			2.294844	
3	2	7	60.6	1686		3.190535	
4	2	7	83.2	1270		3.838725	
5	1	7	97.4			4.738623	
6	2	7	84	1171		5.428073	
7	3	7	53.8	1448	1255	6.357245	1
8	2	7	56.4	1506		6.960261	
9	3	7	69.1	1005	1055	7.388353	
10	2	7	54.6	1820		8.551611	
11	3	7	89.1	1615	1269	9.040823	
12	2	7	88.3	1807		9.998595	
13	2	7	63.6	1860		10.404276	
14	1	7	59.3			11.236065	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	91	1361		0.214982	
1	2	18	87.1	1932		1.697204	
2	3	18	67.9	1009	1945	2.256128	
3	3	18	64.7	1410	1819	3.117215	
4	2	18	86.4	1298		3.55807	
5	2	18	77.4	1248		4.304366	
6	1	18	98.4			5.801086	
7	2	18	79.3	1966		6.182404	1
8	3	18	66	1689	1262	7.481592	
9	3	18	71	1075	1924	8.183029	
10	2	18	58.8	1118		9.257745	
11	3	18	54	1624	1188	10.06734	
12	2	18	95.9	1087		11.08491	
13	2	18	73.6	1853		11.764065	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	76.3	1901	1117	0.455476	
1	2	17	58.8	1829		1.090591	
2	3	17	91.8	1815	1772	1.847617	
3	2	17	54.4	1835		2.167351	
4	2	17	97.4	1767		3.295081	
5	1	17	64.8			4.179259	
6	2	17	84	1375		4.517119	
7	1	17	54.9			5.274216	
8	3	17	58.4	1658	1524	5.965994	1
9	2	17	67.3	1705		6.864052	
10	3	17	51.8	1637	1765	7.319344	
11	3	17	89.9	1546	1730	7.94465	
12	3	17	77.2	1787	1620	8.766803	
13	3	17	84.4	1286	1887	9.448525	
14	3	17	70.2	1589	1115	10.430264	
15	2	17	81.6	1997		10.764165	
16	2	17	85.7	1832		11.779625	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	51	1439		0.23606	1
1	3	6	90	1934	1647	1.158645	
2	2	6	56.9	1653		1.536922	
3	1	6	58.6			2.119893	
4	2	6	82.1	1429		2.973443	
5	2	6	53.6	1223		3.745821	
6	1	6	69.2			4.491032	
7	2	6	52.4	1095		4.785769	
8	2	6	72.7	1811		5.509962	
9	3	6	94.1	1619	1811	6.307372	
10	2	6	72.8	1794		6.951289	
11	2	6	84.8	1764		7.780963	
12	2	6	67.8	1311		8.078862	
13	2	6	88.1	1800		8.996079	
14	1	6	61.6			9.691966	
15	2	6	55.6	1109		10.137424	
16	1	6	68.1			10.862653	
17	3	6	60.2	1700	1700	11.529378	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	72			0.301545	
1	2	19	82.2	1879		1.049533	
2	2	19	83.5	1811		1.27153	
3	2	19	54.8	1406		2.224739	
4	3	19	87.6	1346	1109	2.902908	
5	2	19	61.8	1697		3.598521	
6	3	19	85.5	1106	1975	4.31357	
7	2	19	95.1	1220		4.805397	
8	1	19	76.9			5.323173	
9	2	19	59.1	1603		5.734267	1
10	3	19	81.6	1342	1600	6.567357	
11	2	19	56.2	1605		7.131864	
12	3	19	60.8	1214	1696	7.642155	
13	1	19	77.6			8.523799	
14	1	19	98			9.229909	
15	2	19	82.6	1635		10.038154	
16	3	19	55.3	1447	1136	10.650095	
17	1	19	73.3			11.353631	
18	2	19	90.2	1872		11.855294	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	93.8	1306		0.021117	
1	2	13	55.9	1994		1.038983	
2	2	13	82.6	1898		1.665305	
3	2	13	96.4	1614		2.4513	
4	2	13	91	1983		3.266847	
5	2	13	55.7	1834		4.056205	
6	3	13	99.7	1749	1499	4.884039	
7	1	13	57.3			5.51309	
8	1	13	51			5.922401	1
9	2	13	80.5	1780		7.044079	
10	2	13	72.9	1278		7.616611	
11	3	13	94.9	1236	1638	8.041366	
12	1	13	77.4			8.510398	
13	2	13	68.2	1595		9.378001	
14	3	13	79.1	1408	1790	10.226208	
15	1	13	65.6			10.823869	
16	3	13	62.7	1736	1228	11.449938	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	73.4	1632		0.784981	
1	3	7	51.4	1537	1540	1.487244	
2	1	7	63			3.114787	
3	2	7	51	1461		3.466979	
4	1	7	52.8			4.412078	
5	1	7	57.1			5.698953	1
6	3	7	73	1563	1369	6.965789	
7	1	7	55			7.863033	
8	3	7	86.2	1646	1863	8.776558	
9	2	7	88	1030		10.361557	
10	1	7	93			11.01664	

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	12	98.1	1905		0.17458	1
1	2	12	84.9	1278		1.393505	
2	2	12	59.2	1951		2.152613	
3	2	12	57.4	1730		2.936048	
4	3	12	98.7	1987	1886	3.443756	
5	2	12	97.9	1856		4.226859	
6	1	12	73.4			4.940029	
7	2	12	98.7	1052		5.431701	
8	1	12	80.4			6.16361	
9	1	12	52.4			7.307124	
10	2	12	93.5	1881		8.241413	
11	3	12	88.1	1089	1664	8.621704	
12	2	12	53.3	1829		9.035974	
13	3	12	93.2	1592	1342	10.098224	
14	2	12	61.3	1911		10.531319	
15	2	12	98.8	1218		11.880836	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	99.2	1067		0.364672	1
1	2	19	77.1	1408		1.236024	
2	1	19	65.9			1.425208	
3	2	19	76.2	1199		2.597369	
4	2	19	83.4	1912		2.912119	
5	2	19	59.1	1302		3.683422	
6	3	19	94.4	1907	1739	4.167043	
7	1	19	94.3			5.139367	
8	3	19	78	1464	1990	5.600136	
9	2	19	51.9	1371		6.164975	
10	1	19	70.9			7.235268	
11	1	19	73.1			7.519636	
12	2	19	62.7	1626		8.650812	
13	2	19	62.8	1402		8.964972	
14	3	19	77.4	1406	1645	9.767206	
15	3	19	59	1690	1417	10.598555	
16	2	19	86.8	1584		11.129841	
17	3	19	85.3	1608	1000	11.617801	

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	11	89.1	1453		0.625962	1
1	2	11	98.7	1993		1.951872	
2	2	11	55.3	1373		2.530321	
3	2	11	79.2	1297		3.552848	
4	2	11	64	1106		4.428132	
5	1	11	72.4			5.652609	
6	3	11	54	1589	1831	6.503955	
7	2	11	83.6	1809		7.633891	
8	2	11	81.1	1598		8.83546	
9	2	11	84.8	1001		9.192245	
10	2	11	56.1	1466		10.13851	
11	1	11	86.1			11.43891	

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	5500	9	1	333	1	5663.0, 5722.0, 5624.0, 5375.0, 5342.0, 5724.0, 5533.0, 5467.0, 5649.0, 5510.0, 5641.0, 5430.0, 5357.0, 5518.0, 5402.0, 5262.0, 5433.0, 5639.0, 5650.0, 5351.0, 5499.0, 5714.0, 5607.0, 5285.0, 5460.0, 5586.0, 5374.0, 5420.0, 5465.0, 5633.0, 5269.0, 5702.0, 5276.0, 5576.0, 5398.0, 5501.0, 5261.0, 5564.0, 5378.0, 5386.0, 5394.0, 5599.0, 5719.0, 5623.0, 5305.0, 5582.0, 5635.0, 5354.0, 5382.0, 5502.0, 5525.0, 5644.0, 5720.0, 5423.0, 5691.0, 5715.0, 5407.0, 5388.0, 5370.0, 5543.0, 5391.0, 5486.0, 5446.0, 5440.0, 5393.0, 5703.0, 5294.0, 5493.0, 5260.0, 5589.0, 5258.0, 5445.0, 5314.0, 5365.0, 5547.0, 5429.0, 5712.0, 5632.0, 5647.0, 5302.0, 5523.0, 5542.0, 5355.0, 5328.0, 5346.0, 5652.0, 5534.0, 5412.0, 5667.0, 5330.0, 5568.0, 5293.0, 5329.0, 5463.0, 5557.0, 5545.0, 5256.0, 5344.0, 5636.0, 5710.0 (number of hits: 4)
2	5500	9	1	333	1	5644.0, 5656.0, 5408.0, 5439.0, 5420.0, 5323.0, 5517.0, 5356.0, 5419.0, 5311.0, 5257.0, 5634.0, 5348.0, 5422.0, 5579.0, 5719.0, 5433.0, 5518.0, 5676.0, 5410.0, 5303.0, 5664.0, 5483.0, 5724.0, 5437.0, 5431.0, 5588.0, 5485.0, 5280.0, 5255.0, 5369.0, 5503.0, 5490.0, 5385.0, 5500.0, 5533.0, 5685.0, 5581.0, 5667.0, 5281.0, 5539.0, 5491.0, 5317.0, 5547.0, 5498.0, 5380.0, 5275.0, 5478.0, 5462.0, 5689.0, 5445.0, 5571.0, 5441.0, 5416.0, 5283.0, 5552.0, 5565.0, 5374.0, 5499.0, 5627.0, 5494.0, 5661.0, 5720.0, 5479.0, 5386.0, 5444.0, 5712.0, 5666.0, 5502.0, 5265.0, 5558.0, 5484.0, 5522.0, 5366.0, 5282.0, 5440.0, 5637.0, 5624.0, 5434.0, 5583.0, 5605.0, 5352.0, 5489.0, 5695.0, 5391.0, 5382.0, 5524.0, 5542.0, 5508.0, 5471.0, 5551.0, 5604.0, 5279.0, 5304.0, 5507.0, 5566.0, 5429.0, 5452.0, 5432.0, 5578.0 (number of hits: 10)
3	5500	9	1	333	1	5583.0, 5480.0, 5524.0, 5631.0, 5539.0, 5547.0, 5686.0, 5304.0, 5627.0, 5458.0, 5278.0, 5525.0, 5295.0, 5435.0, 5568.0, 5653.0, 5338.0, 5418.0, 5422.0, 5684.0, 5444.0, 5669.0, 5316.0, 5579.0, 5664.0, 5612.0, 5504.0, 5430.0, 5489.0, 5659.0, 5322.0, 5362.0, 5323.0, 5600.0, 5288.0, 5321.0, 5619.0, 5577.0, 5291.0, 5330.0, 5425.0, 5487.0, 5705.0, 5370.0, 5625.0, 5260.0, 5324.0, 5660.0, 5445.0, 5463.0, 5486.0, 5468.0, 5690.0, 5649.0, 5535.0,

						5670.0, 5455.0, 5488.0, 5560.0, 5257.0, 5292.0, 5537.0, 5500.0, 5545.0, 5620.0, 5599.0, 5308.0, 5497.0, 5509.0, 5611.0, 5582.0, 5309.0, 5534.0, 5301.0, 5602.0, 5374.0, 5310.0, 5513.0, 5632.0, 5598.0, 5607.0, 5563.0, 5558.0, 5559.0, 5294.0, 5718.0, 5712.0, 5356.0, 5553.0, 5306.0, 5516.0, 5258.0, 5482.0, 5567.0, 5502.0, 5432.0, 5399.0, 5315.0, 5474.0, 5372.0 (number of hits: 5)
4	5500	9	1	333	0	-
5	5500	9	1	333	1	5452.0, 5470.0, 5332.0, 5390.0, 5598.0, 5721.0, 5524.0, 5523.0, 5618.0, 5395.0, 5251.0, 5689.0, 5446.0, 5343.0, 5723.0, 5463.0, 5471.0, 5315.0, 5675.0, 5580.0, 5573.0, 5703.0, 5497.0, 5255.0, 5603.0, 5683.0, 5365.0, 5510.0, 5417.0, 5693.0, 5253.0, 5326.0, 5348.0, 5256.0, 5608.0, 5539.0, 5554.0, 5648.0, 5320.0, 5624.0, 5551.0, 5396.0, 5601.0, 5481.0, 5713.0, 5636.0, 5495.0, 5586.0, 5322.0, 5563.0, 5708.0, 5515.0, 5312.0, 5374.0, 5661.0, 5384.0, 5301.0, 5451.0, 5646.0, 5679.0, 5602.0, 5415.0, 5719.0, 5620.0, 5277.0, 5469.0, 5622.0, 5298.0, 5565.0, 5290.0, 5669.0, 5464.0, 5568.0, 5722.0, 5259.0, 5544.0, 5488.0, 5720.0, 5304.0, 5309.0, 5386.0, 5475.0, 5329.0, 5358.0, 5592.0, 5560.0, 5414.0, 5509.0, 5295.0, 5297.0, 5368.0, 5578.0, 5531.0, 5642.0, 5542.0, 5261.0, 5268.0, 5273.0, 5610.0, 5272.0 (number of hits: 3)
6	5500	9	1	333	1	5489.0, 5393.0, 5399.0, 5305.0, 5568.0, 5621.0, 5396.0, 5495.0, 5382.0, 5583.0, 5716.0, 5296.0, 5270.0, 5520.0, 5416.0, 5262.0, 5606.0, 5546.0, 5268.0, 5317.0, 5700.0, 5695.0, 5633.0, 5718.0, 5494.0, 5576.0, 5596.0, 5454.0, 5279.0, 5294.0, 5444.0, 5352.0, 5420.0, 5664.0, 5404.0, 5714.0, 5366.0, 5553.0, 5554.0, 5275.0, 5569.0, 5696.0, 5711.0, 5687.0, 5384.0, 5359.0, 5683.0, 5703.0, 5518.0, 5481.0, 5570.0, 5527.0, 5447.0, 5655.0, 5602.0, 5660.0, 5480.0, 5402.0, 5281.0, 5698.0, 5398.0, 5690.0, 5308.0, 5276.0, 5337.0, 5665.0, 5646.0, 5496.0, 5618.0, 5264.0, 5417.0, 5526.0, 5391.0, 5614.0, 5295.0, 5719.0, 5325.0, 5586.0, 5648.0, 5333.0, 5551.0, 5280.0, 5321.0, 5575.0, 5571.0, 5486.0, 5701.0, 5691.0, 5513.0, 5490.0, 5251.0, 5720.0, 5300.0, 5482.0, 5376.0, 5564.0, 5419.0, 5671.0, 5558.0, 5342.0 (number of hits: 4)
7	5500	9	1	333	1	5513.0, 5415.0, 5474.0, 5643.0, 5362.0, 5310.0, 5487.0, 5514.0, 5569.0, 5701.0, 5293.0, 5275.0, 5471.0, 5533.0, 5547.0, 5665.0, 5361.0, 5468.0, 5544.0, 5550.0, 5667.0, 5661.0, 5640.0, 5525.0, 5648.0, 5432.0, 5288.0, 5256.0, 5420.0, 5647.0,

						5311.0, 5473.0, 5425.0, 5451.0, 5557.0, 5346.0, 5520.0, 5538.0, 5519.0, 5268.0, 5521.0, 5349.0, 5590.0, 5559.0, 5623.0, 5382.0, 5708.0, 5583.0, 5671.0, 5353.0, 5265.0, 5627.0, 5539.0, 5376.0, 5274.0, 5457.0, 5717.0, 5350.0, 5254.0, 5282.0, 5299.0, 5546.0, 5281.0, 5518.0, 5335.0, 5458.0, 5390.0, 5450.0, 5330.0, 5333.0, 5368.0, 5679.0, 5656.0, 5491.0, 5688.0, 5589.0, 5430.0, 5625.0, 5523.0, 5454.0, 5588.0, 5477.0, 5348.0, 5502.0, 5341.0, 5500.0, 5251.0, 5486.0, 5690.0, 5537.0, 5394.0, 5308.0, 5560.0, 5317.0, 5652.0, 5578.0, 5429.0, 5312.0, 5396.0, 5315.0 (number of hits: 3)
8	5500	9	1	333	1	5529.0, 5582.0, 5324.0, 5456.0, 5490.0, 5354.0, 5347.0, 5395.0, 5273.0, 5436.0, 5319.0, 5284.0, 5358.0, 5252.0, 5474.0, 5721.0, 5323.0, 5514.0, 5562.0, 5714.0, 5356.0, 5373.0, 5595.0, 5263.0, 5519.0, 5380.0, 5396.0, 5473.0, 5540.0, 5294.0, 5536.0, 5675.0, 5387.0, 5604.0, 5352.0, 5365.0, 5674.0, 5591.0, 5505.0, 5479.0, 5379.0, 5312.0, 5530.0, 5698.0, 5468.0, 5656.0, 5622.0, 5669.0, 5433.0, 5393.0, 5311.0, 5295.0, 5366.0, 5658.0, 5606.0, 5543.0, 5579.0, 5344.0, 5414.0, 5537.0, 5645.0, 5357.0, 5266.0, 5409.0, 5542.0, 5260.0, 5700.0, 5482.0, 5680.0, 5404.0, 5398.0, 5515.0, 5577.0, 5599.0, 5507.0, 5504.0, 5716.0, 5476.0, 5389.0, 5375.0, 5690.0, 5547.0, 5609.0, 5331.0, 5520.0, 5494.0, 5588.0, 5307.0, 5416.0, 5554.0, 5278.0, 5432.0, 5439.0, 5672.0, 5532.0, 5359.0, 5555.0, 5718.0, 5510.0, 5301.0 (number of hits: 5)
9	5500	9	1	333	0	-
10	5500	9	1	333	1	5680.0, 5487.0, 5529.0, 5694.0, 5580.0, 5259.0, 5602.0, 5319.0, 5628.0, 5561.0, 5635.0, 5429.0, 5337.0, 5297.0, 5310.0, 5638.0, 5531.0, 5518.0, 5499.0, 5690.0, 5312.0, 5463.0, 5272.0, 5599.0, 5508.0, 5387.0, 5662.0, 5406.0, 5281.0, 5517.0, 5543.0, 5466.0, 5365.0, 5305.0, 5270.0, 5537.0, 5675.0, 5454.0, 5719.0, 5654.0, 5294.0, 5563.0, 5290.0, 5448.0, 5336.0, 5530.0, 5524.0, 5316.0, 5622.0, 5483.0, 5443.0, 5615.0, 5289.0, 5277.0, 5485.0, 5540.0, 5522.0, 5627.0, 5649.0, 5621.0, 5460.0, 5632.0, 5375.0, 5274.0, 5384.0, 5588.0, 5340.0, 5637.0, 5278.0, 5317.0, 5430.0, 5714.0, 5349.0, 5626.0, 5469.0, 5617.0, 5265.0, 5648.0, 5642.0, 5696.0, 5493.0, 5284.0, 5361.0, 5313.0, 5397.0, 5646.0, 5703.0, 5420.0, 5326.0, 5685.0, 5327.0, 5720.0, 5385.0, 5516.0, 5613.0, 5607.0, 5439.0, 5647.0, 5520.0, 5392.0 (number of hits: 3)
11	5500	9	1	333	1	5256.0, 5512.0, 5329.0, 5709.0, 5388.0,

						5604.0, 5678.0, 5588.0, 5693.0, 5510.0, 5473.0, 5355.0, 5654.0, 5394.0, 5373.0, 5601.0, 5463.0, 5552.0, 5430.0, 5254.0, 5320.0, 5703.0, 5610.0, 5499.0, 5296.0, 5593.0, 5683.0, 5546.0, 5721.0, 5523.0, 5253.0, 5402.0, 5268.0, 5257.0, 5632.0, 5318.0, 5284.0, 5716.0, 5349.0, 5379.0, 5594.0, 5525.0, 5262.0, 5319.0, 5644.0, 5609.0, 5573.0, 5354.0, 5608.0, 5627.0, 5432.0, 5553.0, 5337.0, 5621.0, 5556.0, 5698.0, 5364.0, 5537.0, 5445.0, 5603.0, 5614.0, 5304.0, 5362.0, 5496.0, 5551.0, 5536.0, 5700.0, 5305.0, 5315.0, 5491.0, 5450.0, 5461.0, 5287.0, 5562.0, 5569.0, 5434.0, 5584.0, 5617.0, 5266.0, 5290.0, 5376.0, 5274.0, 5308.0, 5444.0, 5455.0, 5631.0, 5306.0, 5493.0, 5563.0, 5372.0, 5492.0, 5718.0, 5385.0, 5397.0, 5587.0, 5665.0, 5532.0, 5681.0, 5566.0, 5343.0 (number of hits: 5)
12	5500	9	1	333	1	5554.0, 5445.0, 5414.0, 5512.0, 5722.0, 5465.0, 5561.0, 5540.0, 5434.0, 5601.0, 5479.0, 5471.0, 5577.0, 5639.0, 5430.0, 5408.0, 5265.0, 5416.0, 5316.0, 5701.0, 5257.0, 5526.0, 5308.0, 5705.0, 5378.0, 5721.0, 5278.0, 5629.0, 5390.0, 5300.0, 5660.0, 5671.0, 5665.0, 5291.0, 5302.0, 5394.0, 5650.0, 5391.0, 5484.0, 5362.0, 5674.0, 5350.0, 5256.0, 5287.0, 5435.0, 5323.0, 5259.0, 5371.0, 5496.0, 5424.0, 5453.0, 5458.0, 5656.0, 5706.0, 5472.0, 5682.0, 5521.0, 5341.0, 5635.0, 5274.0, 5483.0, 5556.0, 5544.0, 5284.0, 5412.0, 5492.0, 5369.0, 5570.0, 5438.0, 5592.0, 5704.0, 5417.0, 5261.0, 5297.0, 5473.0, 5578.0, 5691.0, 5549.0, 5393.0, 5399.0, 5575.0, 5511.0, 5253.0, 5707.0, 5329.0, 5543.0, 5432.0, 5347.0, 5569.0, 5503.0, 5321.0, 5421.0, 5594.0, 5566.0, 5646.0, 5400.0, 5720.0, 5548.0, 5325.0, 5545.0 (number of hits: 3)
13	5500	9	1	333	1	5520.0, 5515.0, 5499.0, 5635.0, 5516.0, 5562.0, 5358.0, 5669.0, 5624.0, 5507.0, 5275.0, 5666.0, 5577.0, 5662.0, 5454.0, 5600.0, 5460.0, 5463.0, 5258.0, 5471.0, 5457.0, 5253.0, 5564.0, 5400.0, 5352.0, 5649.0, 5446.0, 5505.0, 5621.0, 5614.0, 5659.0, 5570.0, 5687.0, 5486.0, 5557.0, 5401.0, 5296.0, 5348.0, 5618.0, 5276.0, 5338.0, 5350.0, 5595.0, 5604.0, 5305.0, 5644.0, 5424.0, 5336.0, 5551.0, 5349.0, 5310.0, 5617.0, 5484.0, 5329.0, 5430.0, 5544.0, 5376.0, 5426.0, 5284.0, 5440.0, 5325.0, 5274.0, 5713.0, 5383.0, 5267.0, 5640.0, 5510.0, 5658.0, 5692.0, 5655.0, 5693.0, 5290.0, 5443.0, 5530.0, 5647.0, 5353.0, 5568.0, 5273.0, 5597.0, 5298.0, 5591.0, 5558.0, 5279.0, 5533.0, 5581.0, 5538.0, 5711.0, 5605.0, 5261.0, 5710.0,

						5264.0, 5545.0, 5657.0, 5571.0, 5694.0, 5681.0, 5363.0, 5553.0, 5648.0, 5311.0 (number of hits: 3)
14	5500	9	1	333	1	5616.0, 5721.0, 5629.0, 5723.0, 5477.0, 5676.0, 5299.0, 5365.0, 5483.0, 5630.0, 5266.0, 5564.0, 5681.0, 5441.0, 5377.0, 5439.0, 5713.0, 5291.0, 5278.0, 5532.0, 5410.0, 5554.0, 5284.0, 5281.0, 5269.0, 5390.0, 5650.0, 5524.0, 5409.0, 5597.0, 5596.0, 5513.0, 5527.0, 5579.0, 5339.0, 5295.0, 5639.0, 5708.0, 5540.0, 5366.0, 5610.0, 5526.0, 5499.0, 5643.0, 5543.0, 5260.0, 5348.0, 5635.0, 5369.0, 5340.0, 5323.0, 5587.0, 5637.0, 5699.0, 5577.0, 5279.0, 5684.0, 5408.0, 5628.0, 5611.0, 5475.0, 5486.0, 5416.0, 5394.0, 5420.0, 5515.0, 5585.0, 5450.0, 5609.0, 5663.0, 5447.0, 5640.0, 5603.0, 5588.0, 5510.0, 5479.0, 5491.0, 5489.0, 5313.0, 5418.0, 5470.0, 5665.0, 5412.0, 5669.0, 5641.0, 5621.0, 5440.0, 5724.0, 5253.0, 5494.0, 5679.0, 5393.0, 5575.0, 5653.0, 5563.0, 5469.0, 5286.0, 5521.0, 5302.0, 5453.0 (number of hits: 3)
15	5500	9	1	333	0	-
16	5500	9	1	333	0	-
17	5500	9	1	333	1	5452.0, 5426.0, 5250.0, 5330.0, 5438.0, 5298.0, 5624.0, 5621.0, 5573.0, 5309.0, 5371.0, 5383.0, 5598.0, 5579.0, 5597.0, 5576.0, 5634.0, 5265.0, 5414.0, 5353.0, 5577.0, 5370.0, 5717.0, 5494.0, 5644.0, 5413.0, 5532.0, 5718.0, 5696.0, 5284.0, 5512.0, 5581.0, 5549.0, 5596.0, 5517.0, 5583.0, 5681.0, 5656.0, 5487.0, 5386.0, 5680.0, 5310.0, 5461.0, 5575.0, 5520.0, 5343.0, 5551.0, 5267.0, 5677.0, 5382.0, 5701.0, 5490.0, 5652.0, 5657.0, 5454.0, 5635.0, 5616.0, 5436.0, 5535.0, 5361.0, 5513.0, 5344.0, 5254.0, 5268.0, 5516.0, 5689.0, 5524.0, 5380.0, 5620.0, 5673.0, 5405.0, 5338.0, 5664.0, 5655.0, 5531.0, 5331.0, 5473.0, 5295.0, 5514.0, 5518.0, 5711.0, 5398.0, 5588.0, 5629.0, 5591.0, 5508.0, 5432.0, 5484.0, 5281.0, 5690.0, 5282.0, 5410.0, 5334.0, 5716.0, 5615.0, 5519.0, 5260.0, 5713.0, 5389.0, 5504.0 (number of hits: 4)
18	5500	9	1	333	1	5268.0, 5474.0, 5571.0, 5442.0, 5340.0, 5501.0, 5589.0, 5445.0, 5642.0, 5466.0, 5625.0, 5396.0, 5524.0, 5316.0, 5487.0, 5439.0, 5486.0, 5557.0, 5298.0, 5509.0, 5532.0, 5363.0, 5271.0, 5508.0, 5335.0, 5566.0, 5259.0, 5680.0, 5464.0, 5303.0, 5649.0, 5392.0, 5564.0, 5548.0, 5676.0, 5265.0, 5568.0, 5542.0, 5698.0, 5587.0, 5529.0, 5481.0, 5666.0, 5301.0, 5451.0, 5723.0, 5467.0, 5718.0, 5322.0, 5609.0, 5293.0, 5364.0, 5540.0, 5721.0, 5477.0, 5272.0, 5358.0, 5332.0, 5569.0, 5403.0,

						5530.0, 5685.0, 5380.0, 5582.0, 5324.0, 5595.0, 5692.0, 5262.0, 5672.0, 5707.0, 5430.0, 5252.0, 5505.0, 5456.0, 5603.0, 5696.0, 5285.0, 5624.0, 5674.0, 5690.0, 5668.0, 5655.0, 5383.0, 5264.0, 5659.0, 5616.0, 5654.0, 5349.0, 5421.0, 5560.0, 5318.0, 5660.0, 5381.0, 5416.0, 5512.0, 5253.0, 5500.0, 5623.0, 5714.0, 5274.0 (number of hits: 5)
19	5500	9	1	333	1	5358.0, 5643.0, 5625.0, 5630.0, 5255.0, 5444.0, 5410.0, 5693.0, 5508.0, 5566.0, 5252.0, 5399.0, 5277.0, 5370.0, 5278.0, 5570.0, 5612.0, 5300.0, 5466.0, 5531.0, 5678.0, 5316.0, 5488.0, 5425.0, 5366.0, 5280.0, 5520.0, 5554.0, 5689.0, 5337.0, 5295.0, 5550.0, 5458.0, 5542.0, 5430.0, 5340.0, 5275.0, 5423.0, 5584.0, 5622.0, 5402.0, 5461.0, 5411.0, 5462.0, 5259.0, 5646.0, 5602.0, 5586.0, 5512.0, 5482.0, 5276.0, 5568.0, 5495.0, 5273.0, 5324.0, 5445.0, 5438.0, 5536.0, 5529.0, 5717.0, 5331.0, 5302.0, 5698.0, 5292.0, 5699.0, 5597.0, 5298.0, 5287.0, 5439.0, 5382.0, 5460.0, 5335.0, 5590.0, 5577.0, 5560.0, 5558.0, 5540.0, 5604.0, 5442.0, 5701.0, 5692.0, 5588.0, 5675.0, 5516.0, 5614.0, 5624.0, 5359.0, 5412.0, 5448.0, 5720.0, 5553.0, 5506.0, 5384.0, 5499.0, 5436.0, 5476.0, 5279.0, 5652.0, 5696.0, 5267.0 (number of hits: 4)
20	5500	9	1	333	0	-
21	5500	9	1	333	1	5705.0, 5560.0, 5297.0, 5362.0, 5612.0, 5619.0, 5461.0, 5655.0, 5429.0, 5442.0, 5356.0, 5586.0, 5274.0, 5660.0, 5452.0, 5653.0, 5589.0, 5312.0, 5416.0, 5696.0, 5287.0, 5533.0, 5410.0, 5293.0, 5695.0, 5332.0, 5379.0, 5381.0, 5613.0, 5691.0, 5698.0, 5662.0, 5451.0, 5554.0, 5337.0, 5714.0, 5720.0, 5595.0, 5615.0, 5479.0, 5518.0, 5334.0, 5537.0, 5544.0, 5683.0, 5620.0, 5708.0, 5255.0, 5394.0, 5629.0, 5296.0, 5503.0, 5307.0, 5525.0, 5693.0, 5415.0, 5596.0, 5408.0, 5689.0, 5380.0, 5699.0, 5352.0, 5469.0, 5692.0, 5621.0, 5716.0, 5288.0, 5376.0, 5616.0, 5258.0, 5687.0, 5677.0, 5368.0, 5491.0, 5301.0, 5266.0, 5407.0, 5473.0, 5592.0, 5644.0, 5685.0, 5259.0, 5516.0, 5370.0, 5507.0, 5279.0, 5265.0, 5548.0, 5437.0, 5565.0, 5344.0, 5292.0, 5417.0, 5358.0, 5359.0, 5670.0, 5422.0, 5627.0, 5509.0, 5276.0 (number of hits: 4)
22	5500	9	1	333	1	5520.0, 5580.0, 5291.0, 5354.0, 5483.0, 5603.0, 5451.0, 5631.0, 5255.0, 5285.0, 5498.0, 5386.0, 5588.0, 5339.0, 5272.0, 5487.0, 5575.0, 5348.0, 5457.0, 5501.0, 5659.0, 5343.0, 5478.0, 5587.0, 5705.0, 5656.0, 5284.0, 5621.0, 5347.0, 5684.0, 5388.0, 5352.0, 5340.0, 5361.0, 5418.0,

						5547.0, 5639.0, 5552.0, 5401.0, 5252.0, 5518.0, 5567.0, 5713.0, 5548.0, 5396.0, 5698.0, 5365.0, 5400.0, 5585.0, 5716.0, 5600.0, 5511.0, 5718.0, 5699.0, 5268.0, 5486.0, 5628.0, 5667.0, 5295.0, 5330.0, 5414.0, 5676.0, 5566.0, 5356.0, 5686.0, 5310.0, 5687.0, 5270.0, 5369.0, 5506.0, 5564.0, 5269.0, 5701.0, 5480.0, 5571.0, 5680.0, 5706.0, 5544.0, 5439.0, 5292.0, 5395.0, 5609.0, 5668.0, 5420.0, 5664.0, 5342.0, 5540.0, 5674.0, 5491.0, 5344.0, 5404.0, 5476.0, 5449.0, 5650.0, 5654.0, 5538.0, 5364.0, 5612.0, 5513.0, 5335.0 (number of hits: 4)
23	5500	9	1	333	1	5432.0, 5441.0, 5385.0, 5394.0, 5554.0, 5660.0, 5704.0, 5648.0, 5329.0, 5443.0, 5528.0, 5379.0, 5260.0, 5436.0, 5507.0, 5565.0, 5297.0, 5688.0, 5366.0, 5348.0, 5530.0, 5566.0, 5658.0, 5494.0, 5301.0, 5506.0, 5476.0, 5252.0, 5614.0, 5446.0, 5319.0, 5452.0, 5434.0, 5304.0, 5447.0, 5341.0, 5362.0, 5382.0, 5374.0, 5721.0, 5543.0, 5638.0, 5367.0, 5509.0, 5356.0, 5449.0, 5671.0, 5687.0, 5372.0, 5430.0, 5316.0, 5564.0, 5287.0, 5582.0, 5669.0, 5259.0, 5485.0, 5627.0, 5363.0, 5390.0, 5678.0, 5451.0, 5318.0, 5492.0, 5597.0, 5567.0, 5499.0, 5253.0, 5321.0, 5593.0, 5504.0, 5540.0, 5381.0, 5391.0, 5384.0, 5529.0, 5291.0, 5407.0, 5521.0, 5277.0, 5470.0, 5488.0, 5399.0, 5550.0, 5696.0, 5531.0, 5501.0, 5570.0, 5280.0, 5681.0, 5707.0, 5575.0, 5457.0, 5545.0, 5606.0, 5266.0, 5585.0, 5473.0, 5711.0, 5315.0 (number of hits: 8)
24	5500	9	1	333	1	5722.0, 5331.0, 5455.0, 5714.0, 5320.0, 5475.0, 5372.0, 5711.0, 5703.0, 5597.0, 5485.0, 5357.0, 5358.0, 5471.0, 5531.0, 5494.0, 5550.0, 5644.0, 5715.0, 5631.0, 5640.0, 5272.0, 5438.0, 5647.0, 5614.0, 5664.0, 5344.0, 5632.0, 5532.0, 5701.0, 5441.0, 5638.0, 5529.0, 5374.0, 5567.0, 5534.0, 5329.0, 5593.0, 5536.0, 5608.0, 5286.0, 5470.0, 5419.0, 5347.0, 5371.0, 5468.0, 5263.0, 5309.0, 5384.0, 5512.0, 5524.0, 5406.0, 5706.0, 5460.0, 5321.0, 5666.0, 5620.0, 5349.0, 5402.0, 5628.0, 5520.0, 5298.0, 5601.0, 5505.0, 5393.0, 5594.0, 5409.0, 5437.0, 5408.0, 5429.0, 5426.0, 5629.0, 5385.0, 5549.0, 5498.0, 5625.0, 5568.0, 5362.0, 5718.0, 5416.0, 5555.0, 5591.0, 5404.0, 5691.0, 5670.0, 5413.0, 5535.0, 5724.0, 5696.0, 5428.0, 5692.0, 5345.0, 5545.0, 5348.0, 5324.0, 5649.0, 5575.0, 5465.0, 5265.0, 5264.0 (number of hits: 3)
25	5500	9	1	333	1	5724.0, 5721.0, 5661.0, 5402.0, 5613.0, 5594.0, 5261.0, 5542.0, 5620.0, 5537.0, 5355.0, 5532.0, 5432.0, 5627.0, 5373.0,

						5406.0, 5441.0, 5448.0, 5482.0, 5263.0, 5370.0, 5577.0, 5403.0, 5502.0, 5382.0, 5425.0, 5647.0, 5536.0, 5286.0, 5346.0, 5709.0, 5672.0, 5361.0, 5651.0, 5544.0, 5385.0, 5538.0, 5297.0, 5705.0, 5534.0, 5354.0, 5454.0, 5304.0, 5675.0, 5600.0, 5718.0, 5421.0, 5254.0, 5420.0, 5572.0, 5483.0, 5674.0, 5708.0, 5347.0, 5576.0, 5666.0, 5507.0, 5669.0, 5660.0, 5548.0, 5562.0, 5490.0, 5711.0, 5253.0, 5686.0, 5659.0, 5439.0, 5551.0, 5377.0, 5316.0, 5694.0, 5501.0, 5480.0, 5515.0, 5408.0, 5309.0, 5629.0, 5580.0, 5692.0, 5566.0, 5381.0, 5349.0, 5676.0, 5723.0, 5630.0, 5456.0, 5668.0, 5290.0, 5457.0, 5311.0, 5283.0, 5673.0, 5411.0, 5678.0, 5703.0, 5469.0, 5489.0, 5426.0, 5320.0, 5570.0 (number of hits: 4)
26	5500	9	1	333	1	5339.0, 5639.0, 5513.0, 5722.0, 5573.0, 5446.0, 5392.0, 5263.0, 5358.0, 5536.0, 5637.0, 5679.0, 5258.0, 5650.0, 5353.0, 5674.0, 5423.0, 5393.0, 5292.0, 5517.0, 5518.0, 5524.0, 5654.0, 5671.0, 5298.0, 5359.0, 5368.0, 5441.0, 5274.0, 5356.0, 5701.0, 5268.0, 5290.0, 5646.0, 5587.0, 5684.0, 5310.0, 5476.0, 5328.0, 5555.0, 5285.0, 5495.0, 5299.0, 5686.0, 5253.0, 5715.0, 5287.0, 5549.0, 5535.0, 5534.0, 5360.0, 5478.0, 5348.0, 5647.0, 5591.0, 5627.0, 5320.0, 5475.0, 5481.0, 5308.0, 5501.0, 5683.0, 5296.0, 5719.0, 5331.0, 5625.0, 5421.0, 5321.0, 5316.0, 5595.0, 5439.0, 5655.0, 5632.0, 5612.0, 5562.0, 5482.0, 5506.0, 5545.0, 5568.0, 5262.0, 5266.0, 5563.0, 5675.0, 5453.0, 5325.0, 5693.0, 5670.0, 5523.0, 5444.0, 5603.0, 5628.0, 5596.0, 5653.0, 5540.0, 5334.0, 5473.0, 5578.0, 5634.0, 5283.0, 5479.0 (number of hits: 3)
27	5500	9	1	333	1	5526.0, 5366.0, 5312.0, 5349.0, 5675.0, 5645.0, 5579.0, 5492.0, 5542.0, 5634.0, 5292.0, 5525.0, 5524.0, 5284.0, 5480.0, 5416.0, 5251.0, 5275.0, 5405.0, 5604.0, 5359.0, 5653.0, 5372.0, 5597.0, 5696.0, 5455.0, 5540.0, 5323.0, 5463.0, 5270.0, 5443.0, 5692.0, 5507.0, 5303.0, 5678.0, 5328.0, 5516.0, 5433.0, 5464.0, 5472.0, 5488.0, 5435.0, 5683.0, 5535.0, 5547.0, 5295.0, 5629.0, 5513.0, 5499.0, 5519.0, 5437.0, 5340.0, 5607.0, 5254.0, 5588.0, 5318.0, 5369.0, 5714.0, 5565.0, 5271.0, 5641.0, 5648.0, 5541.0, 5680.0, 5681.0, 5262.0, 5457.0, 5536.0, 5530.0, 5561.0, 5334.0, 5706.0, 5360.0, 5486.0, 5299.0, 5319.0, 5556.0, 5687.0, 5345.0, 5577.0, 5654.0, 5263.0, 5430.0, 5427.0, 5390.0, 5313.0, 5679.0, 5550.0, 5635.0, 5649.0, 5662.0, 5665.0, 5421.0, 5594.0, 5398.0, 5504.0, 5391.0, 5269.0, 5500.0, 5408.0

						(number of hits: 5)
28	5500	9	1	333	1	5334.0, 5373.0, 5682.0, 5437.0, 5602.0, 5721.0, 5645.0, 5479.0, 5702.0, 5326.0, 5370.0, 5417.0, 5506.0, 5489.0, 5375.0, 5712.0, 5571.0, 5483.0, 5589.0, 5668.0, 5466.0, 5381.0, 5455.0, 5556.0, 5387.0, 5587.0, 5586.0, 5261.0, 5450.0, 5534.0, 5337.0, 5676.0, 5692.0, 5463.0, 5420.0, 5438.0, 5414.0, 5593.0, 5495.0, 5453.0, 5562.0, 5476.0, 5607.0, 5312.0, 5300.0, 5443.0, 5365.0, 5552.0, 5594.0, 5643.0, 5681.0, 5623.0, 5287.0, 5532.0, 5503.0, 5284.0, 5626.0, 5353.0, 5720.0, 5433.0, 5558.0, 5666.0, 5457.0, 5293.0, 5653.0, 5465.0, 5359.0, 5432.0, 5397.0, 5669.0, 5254.0, 5549.0, 5686.0, 5610.0, 5379.0, 5477.0, 5671.0, 5507.0, 5705.0, 5500.0, 5442.0, 5678.0, 5689.0, 5272.0, 5670.0, 5606.0, 5697.0, 5573.0, 5656.0, 5530.0, 5547.0, 5268.0, 5407.0, 5561.0, 5613.0, 5298.0, 5253.0, 5542.0, 5384.0, 5368.0 (number of hits: 5)
29	5500	9	1	333	1	5657.0, 5254.0, 5475.0, 5393.0, 5364.0, 5419.0, 5563.0, 5677.0, 5599.0, 5561.0, 5593.0, 5443.0, 5263.0, 5252.0, 5431.0, 5394.0, 5366.0, 5397.0, 5286.0, 5625.0, 5267.0, 5513.0, 5295.0, 5467.0, 5607.0, 5707.0, 5715.0, 5367.0, 5384.0, 5675.0, 5523.0, 5495.0, 5482.0, 5253.0, 5269.0, 5595.0, 5380.0, 5317.0, 5464.0, 5361.0, 5541.0, 5494.0, 5392.0, 5323.0, 5490.0, 5276.0, 5294.0, 5617.0, 5574.0, 5426.0, 5480.0, 5629.0, 5548.0, 5689.0, 5320.0, 5598.0, 5537.0, 5531.0, 5448.0, 5487.0, 5388.0, 5716.0, 5584.0, 5412.0, 5506.0, 5483.0, 5669.0, 5605.0, 5665.0, 5264.0, 5532.0, 5683.0, 5465.0, 5352.0, 5637.0, 5407.0, 5639.0, 5581.0, 5436.0, 5496.0, 5564.0, 5692.0, 5492.0, 5573.0, 5528.0, 5328.0, 5319.0, 5305.0, 5694.0, 5301.0, 5461.0, 5334.0, 5463.0, 5590.0, 5428.0, 5321.0, 5615.0, 5556.0, 5459.0, 5403.0 (number of hits: 6)
30	5500	9	1	333	1	5597.0, 5686.0, 5339.0, 5470.0, 5608.0, 5616.0, 5637.0, 5363.0, 5436.0, 5516.0, 5416.0, 5389.0, 5717.0, 5655.0, 5668.0, 5477.0, 5282.0, 5473.0, 5465.0, 5452.0, 5610.0, 5533.0, 5639.0, 5677.0, 5565.0, 5632.0, 5629.0, 5690.0, 5588.0, 5512.0, 5559.0, 5337.0, 5543.0, 5530.0, 5532.0, 5640.0, 5442.0, 5480.0, 5704.0, 5504.0, 5669.0, 5486.0, 5314.0, 5457.0, 5276.0, 5284.0, 5498.0, 5596.0, 5595.0, 5570.0, 5666.0, 5327.0, 5426.0, 5351.0, 5329.0, 5348.0, 5379.0, 5285.0, 5569.0, 5582.0, 5267.0, 5667.0, 5646.0, 5716.0, 5445.0, 5388.0, 5295.0, 5656.0, 5529.0, 5703.0, 5257.0, 5294.0, 5296.0, 5685.0, 5407.0, 5541.0, 5412.0, 5503.0, 5280.0, 5542.0,

						5410.0, 5707.0, 5715.0, 5413.0, 5328.0, 5283.0, 5324.0, 5428.0, 5375.0, 5478.0, 5456.0, 5404.0, 5356.0, 5643.0, 5311.0, 5321.0, 5687.0, 5433.0, 5265.0, 5254.0 (number of hits: 3)

5510 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate (Type1 to 4)	120	98.325 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5510 MHz, 40 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	78	1	678	1
2	5510	86	1	618	1
3	5510	89	1	598	1
4	5510	70	1	758	1
5	5510	92	1	578	1
6	5510	68	1	778	1
7	5510	63	1	838	1
8	5510	95	1	558	1
9	5510	61	1	878	1
10	5510	62	1	858	1
11	5510	58	1	918	1
12	5510	18	1	3066	1
13	5510	59	1	898	1
14	5510	81	1	658	1
15	5510	65	1	818	1
16	5510	31	1	1717	1
17	5510	19	1	2814	1
18	5510	18	1	3011	1
19	5510	18	1	3027	1
20	5510	18	1	2953	1
21	5510	33	1	1629	1
22	5510	27	1	1963	1
23	5510	23	1	2380	1
24	5510	33	1	1605	1
25	5510	49	1	1087	1
26	5510	27	1	1966	1
27	5510	22	1	2412	1
28	5510	65	1	816	1
29	5510	22	1	2409	1
30	5510	22	1	2421	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	24	4.8	215	1
2	5510	28	3.9	213	1
3	5510	26	1.5	171	1
4	5510	24	4.3	211	1
5	5510	26	4.2	215	1
6	5510	27	1.7	192	1
7	5510	26	2.7	214	1
8	5510	24	2.3	208	1
9	5510	27	4.3	206	1
10	5510	25	2.5	198	1
11	5510	26	3.6	210	1
12	5510	28	3	177	1
13	5510	27	3.2	205	1
14	5510	26	1.5	162	1
15	5510	29	2	193	1
16	5510	28	4.3	202	1
17	5510	29	3.6	206	1
18	5510	24	3.6	167	1
19	5510	29	1.5	200	1
20	5510	29	2.2	183	1
21	5510	28	4.7	172	1
22	5510	29	1.2	187	1
23	5510	29	3.8	230	1
24	5510	28	2.2	161	1
25	5510	29	4.5	218	1
26	5510	27	1.5	175	1
27	5510	25	3	187	1
28	5510	27	3.4	180	1
29	5510	29	4.7	222	1
30	5510	29	3.6	186	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	5510	17	8.5	498	1
2	5510	17	8.3	333	1
3	5510	17	6.7	378	1
4	5510	16	7.1	348	1
5	5510	18	6.9	491	1
6	5510	16	9.4	367	1
7	5510	16	9.5	347	1
8	5510	17	6.5	459	1
9	5510	18	6.6	384	1
10	5510	18	6.6	363	1
11	5510	18	7.4	302	1
12	5510	18	7.9	339	1
13	5510	18	9.7	461	1
14	5510	16	8.6	236	1
15	5510	16	7.5	301	1
16	5510	17	6.8	426	1
17	5510	16	7.1	291	1
18	5510	17	7.5	341	1
19	5510	17	7.4	242	1
20	5510	16	6.4	438	1
21	5510	17	6.7	275	1
22	5510	16	6.4	270	1
23	5510	16	8.2	493	1
24	5510	16	7	405	1
25	5510	16	9.3	332	1
26	5510	17	6.6	247	1
27	5510	17	7.3	472	1
28	5510	17	8.8	411	1
29	5510	17	7.9	441	1
30	5510	18	8.6	421	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	14	11.3	316	1
2	5510	14	11.2	311	1
3	5510	15	13.3	300	1
4	5510	16	18.2	219	0
5	5510	12	15.4	355	1
6	5510	16	16.1	440	1
7	5510	12	11.2	455	1
8	5510	12	18.7	391	1
9	5510	13	19.2	269	1
10	5510	12	12.7	362	1
11	5510	12	17.4	318	1
12	5510	12	12.2	445	1
13	5510	12	13.3	449	1
14	5510	15	12.9	231	1
15	5510	15	11	410	1
16	5510	14	13.2	290	1
17	5510	13	12.9	344	1
18	5510	14	19.5	483	1
19	5510	16	11.7	480	1
20	5510	14	19.7	462	1
21	5510	13	19.3	288	1
22	5510	15	16.5	291	1
23	5510	15	19.5	451	1
24	5510	14	19.6	239	1
25	5510	13	16.8	454	1
26	5510	16	12.6	432	1
27	5510	16	17.1	482	1
28	5510	14	17.4	473	0
29	5510	12	18.9	422	1
30	5510	13	14.4	410	1
Detection Percentage: 93.3 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5510	1
2	5510	1
3	5510	1
4	5510	1
5	5510	1
6	5510	1
7	5510	1
8	5510	1
9	5510	1
10	5510	1
11	5495.6	1
12	5498.4	1
13	5498.4	1
14	5496.0	1
15	5494.0	1
16	5498.4	1
17	5494.0	1
18	5499.6	1
19	5496.4	1
20	5498.8	1
21	5525.2	1
22	5522.8	1
23	5522.4	1
24	5525.2	1
25	5524.4	1
26	5522.4	1
27	5522.4	1
28	5528.0	1
29	5527.2	1
30	5523.6	1
Detection Percentage: 100 % (>80%)		

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	15	71.7	1380		0.604133	1
1	2	15	94.8	1475		1.288147	
2	1	15	70.4			3.300043	
3	3	15	64.4	1404	1237	4.249723	
4	2	15	62.4	1024		5.473957	
5	1	15	64.8			6.48504	
6	2	15	70.5	1717		7.654108	
7	1	15	87.3			9.301248	
8	2	15	98.2	1574		10.516201	
9	1	15	57.7			10.996379	

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	12	81.5	1112		0.436546	1
1	2	12	99.7	1865		1.671369	
2	2	12	92.3	1227		2.740923	
3	2	12	66.5	1957		3.618366	
4	3	12	74.9	1349	1428	4.030437	
5	2	12	69.5	1636		4.986427	
6	2	12	95.5	1006		6.228585	
7	3	12	50	1947	1401	6.651171	
8	3	12	96.1	1518	1598	7.874511	
9	2	12	93.9	1755		8.599587	
10	1	12	67.7			10.105487	
11	2	12	88.1	1623		10.367013	
12	1	12	82.2			11.274997	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	88.8	1642		0.581904	1
1	1	11	53.9			1.460082	
2	1	11	50.7			3.169562	
3	3	11	74.6	1069	1121	4.193666	
4	2	11	73.6	1738		5.66261	
5	2	11	88	1515		6.592592	
6	1	11	87.7			8.145003	
7	2	11	77.3	1239		8.590773	
8	3	11	50.8	1217	1338	10.41713	
9	2	11	61.8	1410		11.351407	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	84.6	1216		0.312467	1
1	2	13	68.9	1972		1.498958	
2	2	13	51.1	1573		2.176075	
3	1	13	62.6			3.036547	
4	2	13	91.5	1628		3.482255	
5	2	13	58.5	1384		4.489869	
6	2	13	88	1459		5.272007	
7	2	13	50.4	1510		6.670945	
8	2	13	72.5	1257		6.982139	
9	2	13	53	1296		7.988101	
10	3	13	65.9	1387	1390	9.039909	
11	2	13	63.8	1461		10.085283	
12	3	13	57.3	1834	1474	10.877317	
13	3	13	99.5	1436	1712	11.814141	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	92.1	1243	1527	0.377589	1
1	3	5	64.6	1998	1931	0.682045	
2	1	5	64.7			1.833799	
3	1	5	98			2.405897	
4	2	5	84.8	1464		2.882167	
5	3	5	60.4	1821	1403	3.260862	
6	3	5	73.4	1400	1964	4.323229	
7	1	5	87			4.73519	
8	2	5	61	1447		5.381101	
9	2	5	55.6	1349		6.27321	
10	3	5	72.2	1556	1937	6.41411	
11	3	5	53.7	1121	1450	7.384432	
12	1	5	54.8			7.636979	
13	1	5	79.4			8.58711	
14	2	5	93.3	1213		9.031042	
15	3	5	50.1	1735	1527	9.789994	
16	1	5	92.1			10.421292	
17	1	5	94.8			11.040178	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	96.9			0.633861	1
1	3	7	54.6	1292	1009	1.271496	
2	3	7	95.9	1981	1916	1.464411	
3	2	7	54.1	1192		2.095783	
4	2	7	59.3	1958		2.981404	
5	2	7	56.5	1661		3.697844	
6	2	7	79.7	1741		4.368372	
7	2	7	81.7	1602		4.916082	
8	1	7	82.1			5.443521	
9	1	7	93.8			6.565727	
10	2	7	73.1	1583		6.748708	
11	2	7	92.8	1007		7.724415	
12	2	7	57.7	1696		8.180855	
13	1	7	55.3			8.741142	
14	1	7	90.7			9.966871	
15	2	7	62.8	1478		10.040034	
16	2	7	93.2	1734		11.311122	
17	2	7	58.8	1218		11.602595	

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	3	6	55.3	1960	1547	0.897831	1
1	2	6	67.3	1766		1.719182	
2	2	6	61.1	1320		3.155965	
3	1	6	64.8			3.418498	
4	1	6	64.7			4.692043	
5	1	6	95.1			5.779216	
6	1	6	93			6.635987	
7	2	6	94.8	1723		7.759399	
8	2	6	71	1283		9.476818	
9	2	6	69.2	1466		10.903457	
10	2	6	52.7	1127		11.650304	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	80.3	1919	1896	0.369709	1
1	1	14	88.6			1.421199	
2	1	14	84.9			2.621725	
3	1	14	83.9			3.231625	
4	2	14	53.1	1823		4.613852	
5	2	14	72.3	1235		5.36333	
6	2	14	99.6	1869		6.211009	
7	1	14	76.1			7.977443	
8	3	14	50.7	1839	1487	8.212262	
9	2	14	62	1964		9.790435	
10	2	14	78.6	1967		10.034408	
11	2	14	94.4	1455		11.86992	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	70.2			0.081291	1
1	1	12	93			1.285829	
2	2	12	62.1	1615		2.508029	
3	1	12	69.4			4.032949	
4	2	12	60.3	1667		4.810255	
5	2	12	91.2	1727		7.182437	
6	1	12	51.4			7.894645	
7	2	12	91.6	1223		9.511995	
8	2	12	55.3	1684		10.222604	
9	1	12	50.9			11.180319	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	83	1188		0.349018	
1	2	9	54.2	1086		1.596897	
2	2	9	55	1025		3.14745	
3	2	9	86.7	1068		4.083952	
4	2	9	81.2	1338		5.091751	
5	1	9	92.1			5.804262	1
6	1	9	51.2			7.147386	
7	1	9	51.1			8.572353	
8	1	9	59.4			9.734828	
9	3	9	91.7	1391	1338	10.843178	
10	2	9	53.3	1740		11.23426	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	53.9	1681		0.431786	1
1	3	9	88.7	1607	1450	0.917503	
2	1	9	90.9			1.965302	
3	1	9	75			2.330471	
4	3	9	70.1	1857	1338	3.221661	
5	1	9	63.5			3.439844	
6	3	9	89.1	1358	1172	4.196552	
7	2	9	92.2	1786		4.666676	
8	2	9	61.5	1070		5.634361	
9	1	9	75.4			6.00972	
10	2	9	66.3	1757		6.681842	
11	2	9	52.4	1984		7.88317	
12	3	9	53.8	1817	1854	8.357736	
13	2	9	87.7	1356		9.076527	
14	3	9	62.8	1148	1826	9.342519	
15	3	9	56.5	1028	1878	10.329892	
16	2	9	73.3	1651		10.844809	
17	2	9	92.5	1446		11.6085	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	77.9	1479		0.767212	1
1	1	16	75.4			2.468152	
2	2	16	84.6	1753		3.709109	
3	3	16	58.1	1104	1584	4.074524	
4	2	16	73.8	1616		5.492585	
5	2	16	98.9	1669		7.112499	
6	3	16	74.5	1463	1705	8.997936	
7	2	16	78.2	1345		9.658949	
8	2	16	93.2	1956		11.372288	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	91.3			1.073165	
1	2	16	76.6	1141		1.719016	
2	2	16	58.8	1153		3.393522	
3	2	16	90.9	1884		5.305237	
4	3	16	76.5	1630	1740	6.315666	1
5	1	16	53.8			6.85074	
6	3	16	96.6	1158	1752	9.246204	
7	2	16	66.9	1455		9.440983	
8	3	16	98.8	1651	1724	11.640804	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	83.5	1650		0.578242	
1	2	10	58.9	1738		0.927587	
2	3	10	83.3	1850	1838	2.017467	
3	3	10	93	1812	1388	2.779959	
4	3	10	97.5	1487	1479	3.359387	
5	1	10	51.8			4.027721	
6	1	10	64.2			4.484541	
7	2	10	58.2	1309		5.008182	
8	2	10	58.6	1895		6.185432	1
9	2	10	57.4	1330		6.532367	
10	3	10	82.8	1738	1229	7.679343	
11	3	10	61.2	1126	1553	7.861271	
12	2	10	99.9	1315		8.806743	
13	2	10	65.5	1652		9.550475	
14	2	10	68.3	1743		10.539849	
15	2	10	91.3	1239		10.902172	
16	1	10	69.1			11.708548	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	53.5	1288	1027	0.809407	1
1	2	5	54.3	1735		1.928878	
2	2	5	52.8	1791		2.442319	
3	2	5	71.6	1015		3.922074	
4	1	5	54.3			4.655607	
5	2	5	70	1206		6.454599	
6	3	5	95.6	1421	1835	6.654825	
7	3	5	77.8	1227	1254	7.642771	
8	2	5	50.9	1016		9.786027	
9	3	5	92.5	1274	1167	10.038159	
10	3	5	99.4	1776	1009	11.927373	

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	16	99.8			0.729899	1
1	2	16	94.9	1461		1.632321	
2	3	16	56.4	1495	1477	2.723888	
3	2	16	51.1	1738		3.388132	
4	1	16	62			4.774922	
5	3	16	93.4	1957	1690	5.024868	
6	2	16	97.6	1403		6.813761	
7	3	16	98.6	1402	1909	7.560034	
8	2	16	99.4	1205		8.855925	
9	3	16	79	1058	1343	9.274682	
10	2	16	74.5	1428		10.44599	
11	2	16	61.2	1258		11.331689	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	91.6			0.316063	1
1	2	5	66	1668		1.214963	
2	2	5	63.1	1375		2.642899	
3	1	5	75.2			3.390791	
4	1	5	64.9			4.75542	
5	2	5	66	1957		5.690468	
6	2	5	61.5	1741		6.549151	
7	2	5	66.4	1789		7.580221	
8	2	5	54.1	1684		8.459164	
9	3	5	64.8	1419	1484	9.432772	
10	3	5	95	1702	1298	10.355022	
11	2	5	56.9	1510		11.302639	

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	87.4			0.211805	1
1	2	19	84.2	1956		1.351424	
2	1	19	69.3			1.845311	
3	2	19	73.7	1402		2.446442	
4	2	19	72.3	1537		3.375756	
5	2	19	60.4	1423		4.103593	
6	2	19	63.4	1239		4.656651	
7	1	19	63.1			5.124303	
8	1	19	50.9			6.01004	
9	3	19	66.8	1754	1690	6.953106	
10	2	19	72.5	1562		7.226749	
11	2	19	51.8	1400		8.33259	
12	2	19	71.6	1533		8.485075	
13	3	19	67.5	1101	1531	9.670678	
14	1	19	79.9			10.094364	
15	2	19	70.6	1592		10.639425	
16	1	19	67.6			11.794408	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	82.3	1944		0.110732	
1	2	11	64.1	1161		1.527821	
2	3	11	94.2	1024	1126	1.845306	
3	2	11	73.4	1066		2.84313	
4	2	11	79.8	1314		3.821438	
5	3	11	78.7	1584	1376	4.759112	
6	3	11	76.3	1241	1145	5.138095	
7	2	11	50.4	1045		5.673857	1
8	2	11	83.5	1360		7.012494	
9	1	11	95.4			7.210096	
10	2	11	77.2	1565		8.038537	
11	1	11	95			9.041174	
12	3	11	84	1698	1514	10.377677	
13	2	11	84.7	1116		10.791031	
14	2	11	98.3	1025		11.511746	

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	56.6	1887		0.269699	
1	1	17	60.2			1.548633	
2	3	17	79.7	1104	1509	2.719975	
3	2	17	82.9	1206		4.30054	
4	2	17	51.8	1471		5.447275	
5	2	17	51.4	1127		6.51393	1
6	2	17	51.3	1733		7.465273	
7	1	17	93.3			8.586206	
8	2	17	94.9	1883		9.029037	
9	2	17	50.7	1969		10.449359	
10	3	17	86	1112	1725	11.38721	

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	12	88.5	1133		0.164909	1
1	3	12	55.1	1003	1605	1.027476	
2	2	12	69.4	1238		1.551661	
3	2	12	95.9	1907		2.109895	
4	3	12	96.2	1553	1055	3.175125	
5	2	12	73.1	1211		3.905742	
6	2	12	96	1317		4.343823	
7	2	12	68.9	1187		5.176624	
8	2	12	64.3	1538		5.63508	
9	1	12	97.6			6.004484	
10	2	12	51.3	1923		6.792225	
11	3	12	64.6	1843	1551	7.915698	
12	2	12	67.3	1713		8.085451	
13	2	12	62.7	1536		9.142851	
14	2	12	88.7	1173		9.470574	
15	1	12	92.2			10.322591	
16	3	12	65.2	1069	1699	10.867893	
17	1	12	79.2			11.958297	

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	1	18	98.4			0.166616	1
1	1	18	69.1			1.430659	
2	1	18	85.1			2.285293	
3	2	18	51.3	1690		3.42653	
4	2	18	54.2	1193		4.217488	
5	2	18	53.9	1408		5.858543	
6	2	18	86.6	1716		6.028326	
7	1	18	78.4			7.865387	
8	2	18	73.3	1375		8.312403	
9	2	18	79.8	1320		9.044846	
10	1	18	91.7			10.860331	
11	3	18	65.2	1485	1676	11.347975	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	86.4	1243		0.579203	
1	3	19	52.6	1868	1872	0.879301	
2	2	19	82.4	1953		1.678753	
3	3	19	59.1	1886	1982	2.570452	
4	3	19	87.4	1377	1609	3.42936	
5	2	19	80	1886		4.509835	
6	1	19	74			4.810398	
7	2	19	88.3	1395		5.888953	1
8	1	19	95.3			6.857448	
9	2	19	65.9	1092		7.816829	
10	3	19	95.6	1647	1881	8.043656	
11	2	19	81.8	1415		9.205811	
12	2	19	85.6	1060		10.300109	
13	1	19	56.8			10.779071	
14	2	19	76.7	1060		11.379004	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	98.8	1405	1516	0.774424	
1	1	12	53.5			1.571341	
2	3	12	68.2	1801	1685	3.163431	
3	3	12	86.4	1690	1935	5.159356	
4	1	12	96.1			6.271209	1
5	2	12	75.4	1038		7.795939	
6	3	12	88.8	1623	1845	8.906007	
7	3	12	62.9	1597	1246	9.635522	
8	3	12	80.6	1015	1945	11.919634	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	68.4	1310		0.795082	
1	2	14	70.6	1698		0.976939	
2	3	14	95.4	1453	1270	2.293152	
3	2	14	72.3	1468		2.89728	
4	3	14	68.2	1170	1358	3.966185	
5	3	14	91.9	1682	1994	4.331646	
6	1	14	90.3			5.451263	
7	3	14	55.2	1557	1640	6.312033	1
8	3	14	76.4	1718	1718	6.761777	
9	2	14	90.1	1782		7.465434	
10	3	14	71.5	1118	1489	8.069111	
11	3	14	77.2	1533	1305	8.826327	
12	1	14	93.2			10.158451	
13	2	14	91.6	1250		11.179925	
14	1	14	64.9			11.492133	

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	19	76.5	1755		0.997637	
1	1	19	51.8			1.544109	
2	1	19	70.5			4.386203	
3	2	19	89.2	1538		5.919534	
4	2	19	60.7	1077		6.949573	1
5	2	19	59.2	1089		8.306873	
6	3	19	79.6	1386	1635	9.700422	
7	3	19	57.2	1007	1149	10.77226	

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	59	1789		0.392829	1
1	1	19	52.1			1.280795	
2	2	19	67.2	1490		1.548578	
3	3	19	95.7	1494	1458	2.637846	
4	3	19	69.9	1779	1810	3.226796	
5	2	19	84.3	1395		3.501853	
6	1	19	70.6			4.332764	
7	1	19	59.4			5.29513	
8	3	19	63.3	1760	1355	5.947253	
9	2	19	62.7	1263		6.549728	
10	1	19	99.4			7.179081	
11	1	19	82			7.866383	
12	2	19	66.8	1944		8.103867	
13	3	19	63.4	1912	1305	9.321539	
14	2	19	83.1	1545		9.690545	
15	2	19	76.3	1402		10.312409	
16	2	19	96.4	1987		11.293098	
17	2	19	64.3	1108		11.906633	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	84.3	1544		0.361621	
1	2	5	58.5	1962		0.843447	
2	1	5	73.6			1.481262	
3	1	5	61.4			2.236372	
4	3	5	96.7	1964	1119	2.411688	
5	1	5	65.3			3.54895	
6	2	5	69.1	1737		3.996523	
7	2	5	90.2	1912		4.557757	
8	1	5	75.1			5.32288	
9	2	5	93.7	1301		5.843422	
10	3	5	89.2	1511	1405	6.46726	1
11	2	5	62.4	1010		7.136853	
12	2	5	88.4	1214		7.396385	
13	2	5	59.2	1945		7.954702	
14	2	5	65	1477		8.815252	
15	3	5	87.4	1115	1305	9.540437	
16	1	5	69.6			10.030144	
17	2	5	86.9	1367		10.377352	
18	2	5	56.8	1883		11.154196	
19	3	5	66.2	1204	1465	11.902511	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	71.5	1788		1.100468	
1	2	7	70.7	1342		1.359065	
2	3	7	58.6	1156	1978	3.932729	
3	2	7	90.8	1569		4.609133	
4	2	7	96	1489		6.44035	1
5	1	7	68.1			7.61082	
6	3	7	92.8	1813	1614	8.622847	
7	2	7	81.8	1534		10.218913	
8	2	7	82.3	1990		11.925532	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	74.9	1080	1162	0.384633	1
1	3	16	84.1	1688	1500	0.930303	
2	2	16	73.5	1044		1.564108	
3	2	16	83.3	1301		2.1695	
4	2	16	57.3	1163		3.325048	
5	2	16	63.4	1534		3.822585	
6	2	16	69	1512		4.048974	
7	2	16	58	1990		5.208235	
8	3	16	63.6	1401	1304	5.834064	
9	2	16	87.3	1415		6.631932	
10	1	16	94.8			7.151245	
11	2	16	87.4	1509		7.920328	
12	1	16	84.2			8.217384	
13	2	16	71.2	1160		8.674119	
14	3	16	85.8	1965	1879	9.67816	
15	2	16	57.6	1828		10.543953	
16	1	16	94.4			11.127682	
17	1	16	57.1			11.636906	

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	5510	9	1	333	1	5686.0, 5268.0, 5255.0, 5411.0, 5633.0, 5475.0, 5400.0, 5458.0, 5410.0, 5559.0, 5539.0, 5462.0, 5331.0, 5516.0, 5595.0, 5638.0, 5524.0, 5612.0, 5273.0, 5720.0, 5680.0, 5694.0, 5722.0, 5614.0, 5466.0, 5266.0, 5654.0, 5314.0, 5445.0, 5431.0, 5532.0, 5666.0, 5414.0, 5533.0, 5264.0, 5610.0, 5651.0, 5512.0, 5599.0, 5439.0, 5380.0, 5652.0, 5660.0, 5324.0, 5282.0, 5719.0, 5395.0, 5514.0, 5570.0, 5609.0, 5668.0, 5432.0, 5283.0, 5355.0, 5258.0, 5569.0, 5422.0, 5365.0, 5626.0, 5656.0, 5452.0, 5565.0, 5721.0, 5605.0, 5257.0, 5318.0, 5291.0, 5493.0, 5391.0, 5485.0, 5714.0, 5362.0, 5311.0, 5372.0, 5397.0, 5259.0, 5404.0, 5561.0, 5312.0, 5284.0, 5378.0, 5619.0, 5677.0, 5345.0, 5501.0, 5460.0, 5279.0, 5560.0, 5317.0, 5563.0, 5699.0, 5713.0, 5723.0, 5348.0, 5696.0, 5388.0, 5253.0, 5663.0, 5685.0, 5326.0 (number of hits: 6)
2	5510	9	1	333	1	5317.0, 5545.0, 5431.0, 5546.0, 5596.0, 5665.0, 5621.0, 5385.0, 5555.0, 5718.0, 5460.0, 5395.0, 5650.0, 5697.0, 5591.0, 5303.0, 5400.0, 5316.0, 5273.0, 5305.0, 5654.0, 5420.0, 5617.0, 5383.0, 5664.0, 5535.0, 5656.0, 5655.0, 5671.0, 5310.0, 5562.0, 5493.0, 5604.0, 5390.0, 5508.0, 5399.0, 5302.0, 5422.0, 5717.0, 5424.0, 5363.0, 5691.0, 5403.0, 5548.0, 5652.0, 5266.0, 5254.0, 5550.0, 5346.0, 5471.0, 5464.0, 5600.0, 5357.0, 5375.0, 5335.0, 5723.0, 5454.0, 5544.0, 5581.0, 5692.0, 5623.0, 5639.0, 5347.0, 5360.0, 5263.0, 5680.0, 5283.0, 5586.0, 5583.0, 5260.0, 5405.0, 5672.0, 5551.0, 5651.0, 5631.0, 5381.0, 5388.0, 5601.0, 5416.0, 5409.0, 5531.0, 5675.0, 5358.0, 5318.0, 5470.0, 5706.0, 5264.0, 5451.0, 5286.0, 5567.0, 5285.0, 5565.0, 5277.0, 5446.0, 5529.0, 5427.0, 5269.0, 5666.0, 5686.0, 5632.0 (number of hits: 3)
3	5510	9	1	333	1	5348.0, 5637.0, 5286.0, 5601.0, 5387.0, 5557.0, 5632.0, 5316.0, 5602.0, 5581.0, 5719.0, 5516.0, 5654.0, 5310.0, 5564.0, 5375.0, 5525.0, 5676.0, 5577.0, 5459.0, 5332.0, 5593.0, 5281.0, 5276.0, 5496.0, 5715.0, 5390.0, 5413.0, 5322.0, 5367.0, 5431.0, 5536.0, 5430.0, 5582.0, 5662.0, 5702.0, 5544.0, 5613.0, 5619.0, 5439.0, 5652.0, 5327.0, 5634.0, 5426.0, 5342.0, 5524.0, 5497.0, 5436.0, 5617.0, 5311.0, 5265.0, 5657.0, 5381.0, 5521.0, 5306.0,

						5369.0, 5721.0, 5392.0, 5470.0, 5340.0, 5503.0, 5636.0, 5681.0, 5635.0, 5300.0, 5371.0, 5284.0, 5393.0, 5558.0, 5621.0, 5586.0, 5705.0, 5568.0, 5533.0, 5540.0, 5698.0, 5700.0, 5427.0, 5472.0, 5618.0, 5416.0, 5631.0, 5600.0, 5388.0, 5545.0, 5465.0, 5305.0, 5419.0, 5351.0, 5318.0, 5385.0, 5494.0, 5359.0, 5293.0, 5515.0, 5547.0, 5353.0, 5252.0, 5630.0, 5335.0 (number of hits: 9)
4	5510	9	1	333	1	5585.0, 5433.0, 5606.0, 5264.0, 5686.0, 5285.0, 5376.0, 5713.0, 5645.0, 5683.0, 5608.0, 5262.0, 5619.0, 5256.0, 5426.0, 5600.0, 5697.0, 5443.0, 5294.0, 5374.0, 5656.0, 5618.0, 5559.0, 5696.0, 5252.0, 5522.0, 5460.0, 5458.0, 5466.0, 5284.0, 5628.0, 5317.0, 5562.0, 5283.0, 5303.0, 5281.0, 5482.0, 5538.0, 5470.0, 5493.0, 5545.0, 5406.0, 5508.0, 5472.0, 5391.0, 5682.0, 5496.0, 5272.0, 5483.0, 5422.0, 5333.0, 5534.0, 5373.0, 5551.0, 5322.0, 5499.0, 5335.0, 5701.0, 5507.0, 5684.0, 5565.0, 5342.0, 5667.0, 5690.0, 5694.0, 5591.0, 5634.0, 5514.0, 5526.0, 5291.0, 5646.0, 5371.0, 5529.0, 5669.0, 5258.0, 5595.0, 5324.0, 5347.0, 5377.0, 5383.0, 5716.0, 5381.0, 5589.0, 5326.0, 5638.0, 5639.0, 5306.0, 5305.0, 5410.0, 5413.0, 5663.0, 5691.0, 5668.0, 5598.0, 5337.0, 5541.0, 5520.0, 5411.0, 5707.0, 5349.0 (number of hits: 10)
5	5510	9	1	333	1	5472.0, 5256.0, 5638.0, 5310.0, 5584.0, 5429.0, 5449.0, 5607.0, 5689.0, 5647.0, 5669.0, 5252.0, 5684.0, 5362.0, 5311.0, 5441.0, 5313.0, 5467.0, 5575.0, 5477.0, 5661.0, 5415.0, 5522.0, 5379.0, 5614.0, 5339.0, 5400.0, 5304.0, 5261.0, 5570.0, 5323.0, 5535.0, 5532.0, 5709.0, 5465.0, 5509.0, 5420.0, 5367.0, 5622.0, 5431.0, 5510.0, 5464.0, 5527.0, 5373.0, 5499.0, 5478.0, 5617.0, 5648.0, 5626.0, 5332.0, 5270.0, 5264.0, 5307.0, 5693.0, 5645.0, 5530.0, 5501.0, 5559.0, 5255.0, 5512.0, 5653.0, 5251.0, 5553.0, 5489.0, 5536.0, 5250.0, 5674.0, 5279.0, 5568.0, 5637.0, 5671.0, 5538.0, 5578.0, 5309.0, 5438.0, 5539.0, 5531.0, 5378.0, 5698.0, 5318.0, 5316.0, 5253.0, 5585.0, 5525.0, 5598.0, 5391.0, 5582.0, 5700.0, 5619.0, 5346.0, 5403.0, 5396.0, 5506.0, 5502.0, 5342.0, 5282.0, 5275.0, 5666.0, 5497.0, 5649.0 (number of hits: 11)
6	5510	9	1	333	1	5311.0, 5312.0, 5253.0, 5715.0, 5580.0, 5261.0, 5561.0, 5443.0, 5601.0, 5488.0, 5549.0, 5494.0, 5660.0, 5709.0, 5683.0, 5383.0, 5279.0, 5256.0, 5342.0, 5592.0, 5352.0, 5702.0, 5537.0, 5573.0, 5495.0, 5283.0, 5657.0, 5586.0, 5674.0, 5710.0, 5374.0, 5581.0, 5646.0, 5269.0, 5717.0,

						5397.0, 5499.0, 5343.0, 5346.0, 5512.0, 5604.0, 5653.0, 5503.0, 5442.0, 5582.0, 5625.0, 5398.0, 5558.0, 5621.0, 5616.0, 5676.0, 5677.0, 5404.0, 5423.0, 5600.0, 5531.0, 5550.0, 5552.0, 5496.0, 5347.0, 5557.0, 5631.0, 5538.0, 5634.0, 5632.0, 5505.0, 5360.0, 5487.0, 5559.0, 5565.0, 5574.0, 5645.0, 5420.0, 5515.0, 5526.0, 5562.0, 5268.0, 5544.0, 5278.0, 5265.0, 5609.0, 5403.0, 5366.0, 5658.0, 5599.0, 5687.0, 5641.0, 5542.0, 5434.0, 5520.0, 5401.0, 5330.0, 5588.0, 5571.0, 5704.0, 5262.0, 5595.0, 5329.0, 5445.0, 5424.0 (number of hits: 10)
7	5510	9	1	333	1	5461.0, 5508.0, 5375.0, 5315.0, 5688.0, 5446.0, 5647.0, 5387.0, 5651.0, 5664.0, 5411.0, 5362.0, 5376.0, 5274.0, 5312.0, 5435.0, 5465.0, 5510.0, 5720.0, 5443.0, 5402.0, 5281.0, 5585.0, 5491.0, 5685.0, 5331.0, 5566.0, 5299.0, 5291.0, 5634.0, 5677.0, 5698.0, 5511.0, 5392.0, 5407.0, 5645.0, 5513.0, 5609.0, 5381.0, 5324.0, 5535.0, 5264.0, 5369.0, 5268.0, 5451.0, 5356.0, 5252.0, 5631.0, 5454.0, 5656.0, 5283.0, 5278.0, 5699.0, 5339.0, 5366.0, 5604.0, 5323.0, 5305.0, 5701.0, 5518.0, 5642.0, 5512.0, 5423.0, 5485.0, 5337.0, 5492.0, 5649.0, 5463.0, 5501.0, 5534.0, 5401.0, 5484.0, 5580.0, 5489.0, 5262.0, 5603.0, 5565.0, 5440.0, 5571.0, 5349.0, 5622.0, 5670.0, 5574.0, 5607.0, 5384.0, 5666.0, 5340.0, 5459.0, 5620.0, 5708.0, 5616.0, 5707.0, 5584.0, 5430.0, 5398.0, 5342.0, 5374.0, 5557.0, 5514.0, 5486.0 (number of hits: 10)
8	5510	9	1	333	1	5260.0, 5387.0, 5632.0, 5479.0, 5619.0, 5356.0, 5379.0, 5422.0, 5288.0, 5717.0, 5331.0, 5500.0, 5360.0, 5638.0, 5526.0, 5721.0, 5520.0, 5590.0, 5664.0, 5380.0, 5583.0, 5278.0, 5472.0, 5684.0, 5390.0, 5522.0, 5405.0, 5460.0, 5257.0, 5548.0, 5699.0, 5579.0, 5442.0, 5306.0, 5449.0, 5573.0, 5418.0, 5691.0, 5351.0, 5253.0, 5560.0, 5720.0, 5682.0, 5535.0, 5321.0, 5335.0, 5307.0, 5723.0, 5599.0, 5464.0, 5358.0, 5557.0, 5675.0, 5330.0, 5476.0, 5568.0, 5606.0, 5616.0, 5637.0, 5499.0, 5355.0, 5502.0, 5393.0, 5618.0, 5580.0, 5329.0, 5369.0, 5359.0, 5275.0, 5301.0, 5256.0, 5644.0, 5494.0, 5334.0, 5515.0, 5474.0, 5628.0, 5487.0, 5399.0, 5517.0, 5689.0, 5577.0, 5635.0, 5493.0, 5658.0, 5569.0, 5713.0, 5483.0, 5538.0, 5705.0, 5585.0, 5342.0, 5649.0, 5463.0, 5617.0, 5315.0, 5438.0, 5645.0, 5350.0, 5559.0 (number of hits: 10)
9	5510	9	1	333	1	5566.0, 5422.0, 5468.0, 5526.0, 5612.0, 5413.0, 5327.0, 5688.0, 5666.0, 5431.0, 5332.0, 5642.0, 5534.0, 5458.0, 5401.0,

						5357.0, 5560.0, 5714.0, 5481.0, 5287.0, 5403.0, 5630.0, 5446.0, 5362.0, 5370.0, 5544.0, 5586.0, 5294.0, 5268.0, 5270.0, 5706.0, 5359.0, 5639.0, 5341.0, 5252.0, 5611.0, 5286.0, 5565.0, 5627.0, 5646.0, 5678.0, 5698.0, 5609.0, 5385.0, 5536.0, 5576.0, 5448.0, 5712.0, 5718.0, 5471.0, 5455.0, 5501.0, 5250.0, 5354.0, 5605.0, 5452.0, 5360.0, 5367.0, 5647.0, 5600.0, 5335.0, 5462.0, 5682.0, 5336.0, 5282.0, 5663.0, 5585.0, 5610.0, 5704.0, 5502.0, 5388.0, 5429.0, 5620.0, 5323.0, 5724.0, 5601.0, 5363.0, 5273.0, 5398.0, 5602.0, 5705.0, 5356.0, 5556.0, 5583.0, 5319.0, 5524.0, 5473.0, 5665.0, 5604.0, 5416.0, 5494.0, 5417.0, 5632.0, 5649.0, 5525.0, 5414.0, 5438.0, 5284.0, 5618.0, 5508.0 (number of hits: 7)
10	5510	9	1	333	1	5495.0, 5521.0, 5697.0, 5622.0, 5605.0, 5400.0, 5271.0, 5594.0, 5559.0, 5373.0, 5308.0, 5403.0, 5426.0, 5659.0, 5677.0, 5601.0, 5674.0, 5712.0, 5387.0, 5689.0, 5695.0, 5432.0, 5639.0, 5607.0, 5437.0, 5305.0, 5300.0, 5702.0, 5457.0, 5417.0, 5377.0, 5579.0, 5456.0, 5336.0, 5688.0, 5294.0, 5488.0, 5356.0, 5657.0, 5641.0, 5512.0, 5325.0, 5431.0, 5612.0, 5715.0, 5337.0, 5370.0, 5564.0, 5709.0, 5343.0, 5282.0, 5458.0, 5420.0, 5441.0, 5717.0, 5526.0, 5256.0, 5406.0, 5600.0, 5592.0, 5445.0, 5588.0, 5489.0, 5317.0, 5332.0, 5691.0, 5629.0, 5333.0, 5376.0, 5297.0, 5614.0, 5671.0, 5701.0, 5358.0, 5517.0, 5346.0, 5278.0, 5687.0, 5713.0, 5505.0, 5602.0, 5481.0, 5568.0, 5330.0, 5463.0, 5585.0, 5650.0, 5662.0, 5635.0, 5503.0, 5402.0, 5666.0, 5345.0, 5546.0, 5536.0, 5638.0, 5518.0, 5436.0, 5576.0, 5700.0 (number of hits: 8)
11	5510	9	1	333	1	5304.0, 5386.0, 5519.0, 5359.0, 5705.0, 5529.0, 5571.0, 5573.0, 5405.0, 5722.0, 5542.0, 5718.0, 5552.0, 5443.0, 5607.0, 5594.0, 5445.0, 5518.0, 5344.0, 5601.0, 5569.0, 5451.0, 5498.0, 5526.0, 5686.0, 5719.0, 5360.0, 5667.0, 5305.0, 5588.0, 5551.0, 5537.0, 5354.0, 5288.0, 5496.0, 5416.0, 5279.0, 5461.0, 5647.0, 5417.0, 5314.0, 5391.0, 5303.0, 5499.0, 5502.0, 5605.0, 5389.0, 5295.0, 5398.0, 5635.0, 5284.0, 5563.0, 5374.0, 5388.0, 5353.0, 5458.0, 5616.0, 5520.0, 5299.0, 5692.0, 5654.0, 5431.0, 5480.0, 5555.0, 5366.0, 5421.0, 5351.0, 5488.0, 5672.0, 5530.0, 5523.0, 5281.0, 5634.0, 5439.0, 5387.0, 5612.0, 5656.0, 5261.0, 5665.0, 5627.0, 5597.0, 5260.0, 5254.0, 5609.0, 5545.0, 5290.0, 5606.0, 5275.0, 5674.0, 5504.0, 5385.0, 5301.0, 5497.0, 5459.0, 5503.0, 5604.0, 5666.0, 5297.0, 5253.0, 5342.0

						(number of hits: 13)
12	5510	9	1	333	1	5302.0, 5591.0, 5265.0, 5663.0, 5328.0, 5465.0, 5683.0, 5324.0, 5547.0, 5584.0, 5353.0, 5687.0, 5488.0, 5634.0, 5404.0, 5435.0, 5701.0, 5472.0, 5661.0, 5295.0, 5390.0, 5433.0, 5285.0, 5458.0, 5387.0, 5655.0, 5323.0, 5461.0, 5425.0, 5342.0, 5325.0, 5606.0, 5641.0, 5578.0, 5291.0, 5337.0, 5515.0, 5351.0, 5621.0, 5473.0, 5678.0, 5608.0, 5467.0, 5427.0, 5514.0, 5617.0, 5516.0, 5463.0, 5555.0, 5700.0, 5695.0, 5722.0, 5274.0, 5271.0, 5372.0, 5360.0, 5259.0, 5601.0, 5603.0, 5627.0, 5571.0, 5509.0, 5666.0, 5576.0, 5511.0, 5548.0, 5255.0, 5682.0, 5455.0, 5681.0, 5574.0, 5480.0, 5640.0, 5718.0, 5674.0, 5421.0, 5352.0, 5594.0, 5489.0, 5602.0, 5715.0, 5332.0, 5254.0, 5570.0, 5686.0, 5275.0, 5481.0, 5589.0, 5530.0, 5355.0, 5519.0, 5533.0, 5366.0, 5297.0, 5479.0, 5605.0, 5538.0, 5688.0, 5690.0, 5424.0 (number of hits: 6)
13	5510	9	1	333	1	5504.0, 5467.0, 5633.0, 5293.0, 5713.0, 5672.0, 5294.0, 5256.0, 5281.0, 5419.0, 5520.0, 5674.0, 5280.0, 5518.0, 5695.0, 5264.0, 5517.0, 5407.0, 5257.0, 5718.0, 5454.0, 5433.0, 5300.0, 5690.0, 5490.0, 5670.0, 5464.0, 5484.0, 5381.0, 5325.0, 5598.0, 5553.0, 5658.0, 5421.0, 5602.0, 5687.0, 5513.0, 5462.0, 5318.0, 5665.0, 5652.0, 5545.0, 5321.0, 5471.0, 5562.0, 5522.0, 5405.0, 5567.0, 5480.0, 5315.0, 5443.0, 5346.0, 5679.0, 5319.0, 5509.0, 5383.0, 5515.0, 5253.0, 5391.0, 5552.0, 5254.0, 5314.0, 5662.0, 5577.0, 5536.0, 5374.0, 5340.0, 5308.0, 5329.0, 5593.0, 5364.0, 5502.0, 5297.0, 5700.0, 5540.0, 5377.0, 5573.0, 5578.0, 5537.0, 5571.0, 5591.0, 5677.0, 5570.0, 5299.0, 5613.0, 5496.0, 5414.0, 5301.0, 5581.0, 5251.0, 5572.0, 5612.0, 5366.0, 5579.0, 5487.0, 5626.0, 5717.0, 5460.0, 5596.0, 5565.0 (number of hits: 11)
14	5510	9	1	333	1	5444.0, 5481.0, 5636.0, 5318.0, 5452.0, 5496.0, 5640.0, 5315.0, 5382.0, 5658.0, 5686.0, 5646.0, 5388.0, 5577.0, 5595.0, 5270.0, 5466.0, 5551.0, 5305.0, 5579.0, 5689.0, 5445.0, 5604.0, 5524.0, 5717.0, 5683.0, 5298.0, 5484.0, 5306.0, 5523.0, 5349.0, 5291.0, 5504.0, 5314.0, 5672.0, 5436.0, 5530.0, 5379.0, 5461.0, 5533.0, 5535.0, 5602.0, 5408.0, 5287.0, 5345.0, 5723.0, 5480.0, 5720.0, 5471.0, 5286.0, 5666.0, 5364.0, 5509.0, 5322.0, 5303.0, 5375.0, 5332.0, 5598.0, 5574.0, 5562.0, 5558.0, 5385.0, 5297.0, 5357.0, 5518.0, 5566.0, 5498.0, 5302.0, 5632.0, 5702.0, 5296.0, 5427.0, 5681.0, 5501.0, 5472.0, 5475.0, 5413.0, 5486.0, 5489.0, 5625.0,

						5376.0, 5623.0, 5335.0, 5696.0, 5493.0, 5656.0, 5514.0, 5355.0, 5660.0, 5600.0, 5401.0, 5713.0, 5329.0, 5367.0, 5370.0, 5510.0, 5617.0, 5292.0, 5552.0, 5550.0 (number of hits: 11)
15	5510	9	1	333	1	5299.0, 5692.0, 5400.0, 5277.0, 5346.0, 5267.0, 5361.0, 5419.0, 5696.0, 5387.0, 5274.0, 5398.0, 5493.0, 5550.0, 5394.0, 5364.0, 5423.0, 5717.0, 5614.0, 5391.0, 5530.0, 5462.0, 5447.0, 5634.0, 5369.0, 5381.0, 5576.0, 5401.0, 5610.0, 5495.0, 5555.0, 5574.0, 5348.0, 5313.0, 5689.0, 5699.0, 5455.0, 5706.0, 5707.0, 5371.0, 5390.0, 5652.0, 5713.0, 5488.0, 5278.0, 5337.0, 5680.0, 5676.0, 5460.0, 5596.0, 5308.0, 5254.0, 5293.0, 5393.0, 5664.0, 5360.0, 5359.0, 5705.0, 5500.0, 5347.0, 5370.0, 5345.0, 5501.0, 5640.0, 5597.0, 5306.0, 5459.0, 5537.0, 5470.0, 5650.0, 5446.0, 5338.0, 5252.0, 5559.0, 5626.0, 5358.0, 5709.0, 5397.0, 5592.0, 5457.0, 5603.0, 5331.0, 5606.0, 5253.0, 5351.0, 5516.0, 5258.0, 5563.0, 5341.0, 5513.0, 5395.0, 5463.0, 5674.0, 5263.0, 5562.0, 5512.0, 5646.0, 5378.0, 5535.0, 5323.0 (number of hits: 7)
16	5510	9	1	333	1	5632.0, 5457.0, 5483.0, 5461.0, 5472.0, 5700.0, 5385.0, 5642.0, 5608.0, 5703.0, 5579.0, 5662.0, 5597.0, 5324.0, 5468.0, 5697.0, 5344.0, 5505.0, 5490.0, 5636.0, 5678.0, 5478.0, 5722.0, 5301.0, 5538.0, 5371.0, 5462.0, 5656.0, 5309.0, 5328.0, 5258.0, 5360.0, 5348.0, 5535.0, 5331.0, 5280.0, 5650.0, 5376.0, 5487.0, 5666.0, 5688.0, 5308.0, 5614.0, 5515.0, 5466.0, 5270.0, 5504.0, 5721.0, 5420.0, 5593.0, 5572.0, 5583.0, 5659.0, 5432.0, 5641.0, 5494.0, 5634.0, 5661.0, 5674.0, 5716.0, 5575.0, 5310.0, 5322.0, 5393.0, 5511.0, 5333.0, 5354.0, 5598.0, 5329.0, 5389.0, 5311.0, 5523.0, 5502.0, 5403.0, 5321.0, 5477.0, 5450.0, 5576.0, 5253.0, 5377.0, 5664.0, 5684.0, 5541.0, 5592.0, 5251.0, 5361.0, 5501.0, 5300.0, 5402.0, 5540.0, 5653.0, 5693.0, 5558.0, 5699.0, 5395.0, 5617.0, 5587.0, 5657.0, 5495.0, 5277.0 (number of hits: 10)
17	5510	9	1	333	1	5355.0, 5536.0, 5400.0, 5641.0, 5304.0, 5565.0, 5347.0, 5293.0, 5696.0, 5384.0, 5560.0, 5692.0, 5302.0, 5344.0, 5291.0, 5385.0, 5522.0, 5625.0, 5598.0, 5594.0, 5274.0, 5320.0, 5603.0, 5256.0, 5550.0, 5307.0, 5495.0, 5551.0, 5664.0, 5351.0, 5707.0, 5367.0, 5371.0, 5259.0, 5575.0, 5684.0, 5391.0, 5452.0, 5690.0, 5440.0, 5637.0, 5654.0, 5703.0, 5554.0, 5546.0, 5313.0, 5423.0, 5657.0, 5670.0, 5336.0, 5604.0, 5611.0, 5490.0, 5278.0, 5486.0, 5588.0, 5652.0, 5647.0, 5540.0, 5602.0,

						5537.0, 5679.0, 5334.0, 5353.0, 5463.0, 5619.0, 5359.0, 5255.0, 5412.0, 5329.0, 5683.0, 5605.0, 5514.0, 5264.0, 5561.0, 5539.0, 5277.0, 5437.0, 5375.0, 5451.0, 5668.0, 5284.0, 5467.0, 5365.0, 5593.0, 5673.0, 5538.0, 5576.0, 5645.0, 5607.0, 5695.0, 5620.0, 5252.0, 5395.0, 5562.0, 5410.0, 5632.0, 5687.0, 5474.0, 5708.0 (number of hits: 4)
18	5510	9	1	333	1	5493.0, 5345.0, 5499.0, 5661.0, 5557.0, 5261.0, 5681.0, 5650.0, 5343.0, 5710.0, 5325.0, 5622.0, 5677.0, 5436.0, 5458.0, 5599.0, 5694.0, 5416.0, 5253.0, 5289.0, 5327.0, 5714.0, 5633.0, 5537.0, 5271.0, 5585.0, 5337.0, 5434.0, 5643.0, 5441.0, 5500.0, 5580.0, 5369.0, 5413.0, 5565.0, 5653.0, 5606.0, 5393.0, 5592.0, 5313.0, 5396.0, 5542.0, 5349.0, 5695.0, 5616.0, 5262.0, 5326.0, 5587.0, 5362.0, 5459.0, 5432.0, 5544.0, 5700.0, 5283.0, 5487.0, 5312.0, 5614.0, 5664.0, 5609.0, 5521.0, 5530.0, 5371.0, 5435.0, 5344.0, 5570.0, 5503.0, 5620.0, 5483.0, 5334.0, 5402.0, 5674.0, 5582.0, 5568.0, 5336.0, 5268.0, 5254.0, 5352.0, 5698.0, 5604.0, 5636.0, 5668.0, 5357.0, 5378.0, 5670.0, 5716.0, 5709.0, 5515.0, 5494.0, 5644.0, 5476.0, 5445.0, 5704.0, 5512.0, 5263.0, 5281.0, 5658.0, 5273.0, 5669.0, 5356.0, 5593.0 (number of hits: 8)
19	5510	9	1	333	1	5483.0, 5586.0, 5722.0, 5658.0, 5525.0, 5595.0, 5450.0, 5578.0, 5639.0, 5434.0, 5429.0, 5375.0, 5571.0, 5444.0, 5476.0, 5410.0, 5445.0, 5318.0, 5253.0, 5352.0, 5673.0, 5308.0, 5608.0, 5689.0, 5500.0, 5471.0, 5342.0, 5561.0, 5367.0, 5386.0, 5315.0, 5337.0, 5324.0, 5593.0, 5527.0, 5432.0, 5368.0, 5319.0, 5555.0, 5486.0, 5557.0, 5417.0, 5516.0, 5461.0, 5302.0, 5270.0, 5361.0, 5625.0, 5485.0, 5601.0, 5675.0, 5687.0, 5656.0, 5600.0, 5436.0, 5523.0, 5499.0, 5328.0, 5272.0, 5509.0, 5309.0, 5518.0, 5497.0, 5606.0, 5558.0, 5536.0, 5472.0, 5538.0, 5568.0, 5359.0, 5668.0, 5692.0, 5251.0, 5576.0, 5491.0, 5705.0, 5365.0, 5700.0, 5682.0, 5702.0, 5512.0, 5474.0, 5306.0, 5526.0, 5607.0, 5382.0, 5442.0, 5295.0, 5676.0, 5650.0, 5389.0, 5531.0, 5369.0, 5284.0, 5290.0, 5566.0, 5642.0, 5449.0, 5588.0, 5482.0 (number of hits: 12)
20	5510	9	1	333	1	5528.0, 5507.0, 5461.0, 5580.0, 5303.0, 5314.0, 5522.0, 5502.0, 5261.0, 5534.0, 5518.0, 5499.0, 5594.0, 5280.0, 5382.0, 5446.0, 5637.0, 5264.0, 5432.0, 5353.0, 5413.0, 5659.0, 5677.0, 5397.0, 5676.0, 5529.0, 5326.0, 5351.0, 5307.0, 5308.0, 5715.0, 5358.0, 5348.0, 5439.0, 5334.0, 5665.0, 5695.0, 5628.0, 5520.0, 5720.0,

						5524.0, 5506.0, 5357.0, 5438.0, 5269.0, 5414.0, 5624.0, 5567.0, 5313.0, 5440.0, 5436.0, 5453.0, 5360.0, 5257.0, 5709.0, 5694.0, 5479.0, 5305.0, 5459.0, 5434.0, 5429.0, 5329.0, 5339.0, 5516.0, 5345.0, 5672.0, 5669.0, 5491.0, 5556.0, 5361.0, 5427.0, 5717.0, 5387.0, 5588.0, 5445.0, 5451.0, 5641.0, 5368.0, 5681.0, 5325.0, 5570.0, 5558.0, 5696.0, 5416.0, 5544.0, 5670.0, 5606.0, 5714.0, 5498.0, 5601.0, 5288.0, 5279.0, 5590.0, 5713.0, 5380.0, 5403.0, 5289.0, 5613.0, 5722.0, 5513.0 (number of hits: 14)
21	5510	9	1	333	1	5697.0, 5606.0, 5672.0, 5525.0, 5337.0, 5412.0, 5658.0, 5278.0, 5342.0, 5628.0, 5456.0, 5558.0, 5712.0, 5520.0, 5452.0, 5604.0, 5509.0, 5257.0, 5489.0, 5321.0, 5315.0, 5538.0, 5531.0, 5549.0, 5448.0, 5264.0, 5294.0, 5599.0, 5476.0, 5597.0, 5298.0, 5542.0, 5609.0, 5290.0, 5553.0, 5389.0, 5545.0, 5632.0, 5324.0, 5363.0, 5440.0, 5266.0, 5483.0, 5645.0, 5333.0, 5576.0, 5529.0, 5662.0, 5280.0, 5605.0, 5402.0, 5585.0, 5620.0, 5277.0, 5424.0, 5382.0, 5425.0, 5686.0, 5618.0, 5546.0, 5299.0, 5594.0, 5271.0, 5453.0, 5352.0, 5441.0, 5716.0, 5675.0, 5539.0, 5261.0, 5254.0, 5634.0, 5577.0, 5629.0, 5344.0, 5322.0, 5561.0, 5643.0, 5381.0, 5490.0, 5326.0, 5373.0, 5284.0, 5319.0, 5495.0, 5669.0, 5601.0, 5311.0, 5504.0, 5469.0, 5433.0, 5276.0, 5329.0, 5438.0, 5598.0, 5366.0, 5647.0, 5544.0, 5466.0, 5422.0 (number of hits: 7)
22	5510	9	1	333	1	5614.0, 5499.0, 5374.0, 5290.0, 5649.0, 5588.0, 5302.0, 5435.0, 5561.0, 5718.0, 5692.0, 5498.0, 5577.0, 5595.0, 5351.0, 5377.0, 5693.0, 5517.0, 5657.0, 5487.0, 5543.0, 5696.0, 5270.0, 5598.0, 5471.0, 5267.0, 5536.0, 5309.0, 5527.0, 5426.0, 5378.0, 5556.0, 5328.0, 5544.0, 5481.0, 5522.0, 5353.0, 5607.0, 5587.0, 5384.0, 5591.0, 5601.0, 5411.0, 5581.0, 5600.0, 5558.0, 5676.0, 5647.0, 5573.0, 5475.0, 5449.0, 5341.0, 5528.0, 5448.0, 5486.0, 5417.0, 5708.0, 5358.0, 5492.0, 5329.0, 5674.0, 5300.0, 5441.0, 5456.0, 5478.0, 5360.0, 5644.0, 5317.0, 5567.0, 5523.0, 5454.0, 5568.0, 5679.0, 5650.0, 5540.0, 5643.0, 5375.0, 5409.0, 5510.0, 5564.0, 5608.0, 5403.0, 5477.0, 5387.0, 5437.0, 5346.0, 5254.0, 5321.0, 5689.0, 5563.0, 5325.0, 5398.0, 5466.0, 5548.0, 5292.0, 5491.0, 5310.0, 5551.0, 5706.0, 5420.0 (number of hits: 10)
23	5510	9	1	333	1	5550.0, 5309.0, 5483.0, 5307.0, 5468.0, 5666.0, 5652.0, 5580.0, 5698.0, 5610.0, 5439.0, 5630.0, 5667.0, 5389.0, 5310.0, 5328.0, 5293.0, 5549.0, 5370.0, 5374.0,

						5352.0, 5634.0, 5665.0, 5306.0, 5486.0, 5687.0, 5340.0, 5718.0, 5497.0, 5441.0, 5701.0, 5282.0, 5599.0, 5503.0, 5385.0, 5379.0, 5435.0, 5490.0, 5288.0, 5507.0, 5271.0, 5678.0, 5405.0, 5321.0, 5332.0, 5337.0, 5568.0, 5473.0, 5686.0, 5449.0, 5452.0, 5410.0, 5534.0, 5481.0, 5714.0, 5296.0, 5437.0, 5596.0, 5707.0, 5413.0, 5364.0, 5485.0, 5323.0, 5436.0, 5393.0, 5506.0, 5711.0, 5365.0, 5487.0, 5598.0, 5638.0, 5519.0, 5342.0, 5619.0, 5475.0, 5633.0, 5590.0, 5508.0, 5626.0, 5494.0, 5272.0, 5444.0, 5382.0, 5609.0, 5564.0, 5684.0, 5338.0, 5510.0, 5577.0, 5404.0, 5333.0, 5624.0, 5450.0, 5600.0, 5682.0, 5488.0, 5354.0, 5289.0, 5394.0, 5625.0 (number of hits: 9)
24	5510	9	1	333	1	5396.0, 5442.0, 5451.0, 5361.0, 5518.0, 5343.0, 5295.0, 5294.0, 5425.0, 5529.0, 5455.0, 5346.0, 5557.0, 5671.0, 5531.0, 5576.0, 5456.0, 5504.0, 5476.0, 5439.0, 5724.0, 5449.0, 5340.0, 5600.0, 5679.0, 5432.0, 5693.0, 5472.0, 5273.0, 5391.0, 5419.0, 5450.0, 5706.0, 5721.0, 5388.0, 5426.0, 5462.0, 5719.0, 5590.0, 5662.0, 5474.0, 5528.0, 5672.0, 5266.0, 5257.0, 5678.0, 5603.0, 5344.0, 5621.0, 5657.0, 5258.0, 5276.0, 5485.0, 5297.0, 5582.0, 5690.0, 5387.0, 5355.0, 5466.0, 5591.0, 5535.0, 5568.0, 5400.0, 5650.0, 5659.0, 5705.0, 5320.0, 5470.0, 5467.0, 5668.0, 5457.0, 5609.0, 5627.0, 5596.0, 5559.0, 5290.0, 5302.0, 5279.0, 5300.0, 5570.0, 5401.0, 5669.0, 5628.0, 5408.0, 5433.0, 5365.0, 5395.0, 5622.0, 5362.0, 5550.0, 5624.0, 5429.0, 5712.0, 5380.0, 5256.0, 5305.0, 5444.0, 5639.0, 5410.0, 5437.0 (number of hits: 4)
25	5510	9	1	333	1	5602.0, 5510.0, 5351.0, 5668.0, 5637.0, 5411.0, 5676.0, 5296.0, 5534.0, 5623.0, 5686.0, 5599.0, 5288.0, 5524.0, 5696.0, 5401.0, 5251.0, 5514.0, 5513.0, 5517.0, 5480.0, 5673.0, 5255.0, 5483.0, 5525.0, 5473.0, 5406.0, 5495.0, 5300.0, 5476.0, 5537.0, 5516.0, 5718.0, 5607.0, 5653.0, 5544.0, 5527.0, 5582.0, 5530.0, 5499.0, 5427.0, 5505.0, 5408.0, 5703.0, 5679.0, 5618.0, 5433.0, 5377.0, 5575.0, 5561.0, 5580.0, 5362.0, 5545.0, 5424.0, 5374.0, 5253.0, 5314.0, 5313.0, 5487.0, 5405.0, 5477.0, 5343.0, 5292.0, 5471.0, 5683.0, 5488.0, 5609.0, 5299.0, 5697.0, 5704.0, 5533.0, 5404.0, 5368.0, 5566.0, 5445.0, 5627.0, 5626.0, 5694.0, 5266.0, 5399.0, 5333.0, 5690.0, 5353.0, 5262.0, 5506.0, 5547.0, 5651.0, 5660.0, 5281.0, 5309.0, 5412.0, 5388.0, 5395.0, 5511.0, 5305.0, 5442.0, 5688.0, 5479.0, 5572.0, 5421.0 (number of hits: 13)

26	5510	9	1	333	1	5627.0, 5399.0, 5454.0, 5498.0, 5641.0, 5377.0, 5510.0, 5389.0, 5255.0, 5333.0, 5293.0, 5338.0, 5598.0, 5279.0, 5375.0, 5303.0, 5458.0, 5693.0, 5365.0, 5471.0, 5475.0, 5370.0, 5280.0, 5625.0, 5648.0, 5424.0, 5353.0, 5349.0, 5489.0, 5480.0, 5361.0, 5281.0, 5315.0, 5568.0, 5407.0, 5605.0, 5623.0, 5461.0, 5634.0, 5392.0, 5553.0, 5444.0, 5584.0, 5633.0, 5533.0, 5295.0, 5666.0, 5527.0, 5412.0, 5530.0, 5467.0, 5275.0, 5408.0, 5567.0, 5699.0, 5288.0, 5388.0, 5464.0, 5554.0, 5578.0, 5311.0, 5287.0, 5526.0, 5697.0, 5588.0, 5649.0, 5541.0, 5433.0, 5713.0, 5441.0, 5442.0, 5466.0, 5321.0, 5270.0, 5515.0, 5416.0, 5563.0, 5434.0, 5381.0, 5417.0, 5669.0, 5483.0, 5548.0, 5256.0, 5486.0, 5476.0, 5719.0, 5278.0, 5674.0, 5610.0, 5512.0, 5354.0, 5695.0, 5613.0, 5692.0, 5528.0, 5404.0, 5505.0, 5252.0, 5645.0 (number of hits: 8)
27	5510	9	1	333	1	5592.0, 5384.0, 5286.0, 5620.0, 5272.0, 5575.0, 5585.0, 5480.0, 5282.0, 5710.0, 5447.0, 5456.0, 5626.0, 5261.0, 5255.0, 5481.0, 5353.0, 5633.0, 5488.0, 5550.0, 5376.0, 5340.0, 5405.0, 5637.0, 5439.0, 5669.0, 5663.0, 5275.0, 5632.0, 5403.0, 5520.0, 5354.0, 5466.0, 5343.0, 5640.0, 5533.0, 5419.0, 5584.0, 5309.0, 5560.0, 5386.0, 5634.0, 5667.0, 5683.0, 5528.0, 5429.0, 5349.0, 5721.0, 5508.0, 5348.0, 5477.0, 5346.0, 5693.0, 5420.0, 5621.0, 5450.0, 5443.0, 5342.0, 5297.0, 5670.0, 5694.0, 5347.0, 5393.0, 5711.0, 5629.0, 5260.0, 5318.0, 5341.0, 5623.0, 5665.0, 5331.0, 5253.0, 5618.0, 5398.0, 5410.0, 5288.0, 5454.0, 5723.0, 5482.0, 5485.0, 5589.0, 5465.0, 5356.0, 5335.0, 5387.0, 5355.0, 5615.0, 5704.0, 5434.0, 5688.0, 5691.0, 5579.0, 5397.0, 5303.0, 5333.0, 5483.0, 5644.0, 5441.0, 5490.0, 5668.0 (number of hits: 4)
28	5510	9	1	333	1	5300.0, 5535.0, 5409.0, 5254.0, 5709.0, 5259.0, 5382.0, 5491.0, 5643.0, 5354.0, 5619.0, 5485.0, 5560.0, 5647.0, 5575.0, 5438.0, 5573.0, 5369.0, 5608.0, 5448.0, 5299.0, 5440.0, 5310.0, 5581.0, 5625.0, 5328.0, 5291.0, 5273.0, 5540.0, 5591.0, 5265.0, 5553.0, 5650.0, 5655.0, 5312.0, 5357.0, 5450.0, 5340.0, 5503.0, 5552.0, 5306.0, 5502.0, 5582.0, 5521.0, 5281.0, 5475.0, 5338.0, 5358.0, 5695.0, 5333.0, 5484.0, 5366.0, 5565.0, 5316.0, 5529.0, 5415.0, 5546.0, 5544.0, 5260.0, 5719.0, 5444.0, 5391.0, 5389.0, 5345.0, 5718.0, 5520.0, 5630.0, 5539.0, 5657.0, 5269.0, 5593.0, 5492.0, 5335.0, 5379.0, 5692.0, 5261.0, 5683.0, 5652.0, 5556.0, 5528.0, 5442.0, 5628.0, 5670.0, 5394.0, 5508.0,

						5405.0, 5416.0, 5276.0, 5368.0, 5669.0, 5678.0, 5487.0, 5426.0, 5388.0, 5717.0, 5257.0, 5380.0, 5289.0, 5712.0, 5399.0 (number of hits: 9)
29	5510	9	1	333	1	5296.0, 5664.0, 5483.0, 5311.0, 5343.0, 5293.0, 5695.0, 5618.0, 5667.0, 5566.0, 5585.0, 5521.0, 5286.0, 5426.0, 5367.0, 5645.0, 5683.0, 5590.0, 5419.0, 5251.0, 5587.0, 5284.0, 5632.0, 5276.0, 5442.0, 5307.0, 5568.0, 5320.0, 5315.0, 5494.0, 5711.0, 5615.0, 5518.0, 5359.0, 5630.0, 5530.0, 5280.0, 5720.0, 5600.0, 5268.0, 5405.0, 5642.0, 5453.0, 5697.0, 5519.0, 5328.0, 5488.0, 5517.0, 5637.0, 5451.0, 5508.0, 5425.0, 5613.0, 5589.0, 5327.0, 5470.0, 5629.0, 5581.0, 5347.0, 5403.0, 5536.0, 5520.0, 5397.0, 5687.0, 5599.0, 5612.0, 5450.0, 5531.0, 5486.0, 5537.0, 5340.0, 5668.0, 5271.0, 5717.0, 5572.0, 5672.0, 5608.0, 5294.0, 5561.0, 5291.0, 5601.0, 5408.0, 5310.0, 5253.0, 5479.0, 5487.0, 5369.0, 5318.0, 5660.0, 5499.0, 5533.0, 5274.0, 5544.0, 5326.0, 5309.0, 5654.0, 5430.0, 5361.0, 5468.0, 5666.0 (number of hits: 8)
30	5510	9	1	333	1	5526.0, 5273.0, 5331.0, 5495.0, 5477.0, 5270.0, 5547.0, 5382.0, 5423.0, 5424.0, 5513.0, 5398.0, 5264.0, 5638.0, 5272.0, 5663.0, 5552.0, 5668.0, 5589.0, 5509.0, 5358.0, 5441.0, 5646.0, 5392.0, 5705.0, 5430.0, 5502.0, 5258.0, 5412.0, 5530.0, 5288.0, 5327.0, 5654.0, 5538.0, 5307.0, 5252.0, 5571.0, 5300.0, 5565.0, 5320.0, 5389.0, 5421.0, 5294.0, 5262.0, 5671.0, 5637.0, 5326.0, 5420.0, 5281.0, 5362.0, 5529.0, 5606.0, 5263.0, 5664.0, 5302.0, 5427.0, 5304.0, 5537.0, 5317.0, 5707.0, 5461.0, 5532.0, 5343.0, 5544.0, 5444.0, 5257.0, 5474.0, 5492.0, 5535.0, 5365.0, 5310.0, 5442.0, 5403.0, 5536.0, 5319.0, 5349.0, 5693.0, 5563.0, 5266.0, 5659.0, 5440.0, 5422.0, 5419.0, 5283.0, 5619.0, 5269.0, 5287.0, 5657.0, 5710.0, 5414.0, 5359.0, 5279.0, 5323.0, 5711.0, 5722.0, 5528.0, 5297.0, 5369.0, 5625.0, 5541.0 (number of hits: 8)

5530 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	83.3 %	60%	Pass
Aggregate (Type1 to 4)	120	94.15 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5530 MHz, 80 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	68	1	778	1
2	5530	102	1	518	1
3	5530	95	1	558	1
4	5530	78	1	678	1
5	5530	57	1	938	1
6	5530	59	1	898	1
7	5530	89	1	598	1
8	5530	99	1	538	1
9	5530	58	1	918	1
10	5530	61	1	878	1
11	5530	62	1	858	1
12	5530	83	1	638	1
13	5530	74	1	718	1
14	5530	72	1	738	1
15	5530	63	1	838	1
16	5530	44	1	1216	1
17	5530	20	1	2750	1
18	5530	55	1	960	1
19	5530	40	1	1330	1
20	5530	20	1	2722	1
21	5530	24	1	2242	1
22	5530	31	1	1737	1
23	5530	27	1	1965	1
24	5530	42	1	1271	1
25	5530	25	1	2187	1
26	5530	25	1	2118	1
27	5530	36	1	1507	1
28	5530	31	1	1740	1
29	5530	56	1	948	1
30	5530	46	1	1168	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	27	3.2	204	1
2	5530	28	4.8	161	1
3	5530	29	1.3	205	1
4	5530	23	3.9	229	1
5	5530	26	1.1	167	1
6	5530	25	3.9	184	1
7	5530	25	2.4	163	1
8	5530	28	2.4	196	1
9	5530	24	4.1	152	1
10	5530	25	1	207	1
11	5530	27	2	196	1
12	5530	28	2.1	177	1
13	5530	23	4.8	200	1
14	5530	26	3.6	204	1
15	5530	24	4.1	223	1
16	5530	23	2.2	192	1
17	5530	29	4.4	207	1
18	5530	25	1.1	208	1
19	5530	29	3.3	203	1
20	5530	25	1.7	176	1
21	5530	26	2.9	170	1
22	5530	25	2.8	198	1
23	5530	24	1.6	214	1
24	5530	28	4.4	225	1
25	5530	26	3	221	1
26	5530	24	1.3	214	1
27	5530	28	4.7	206	1
28	5530	26	2.1	171	1
29	5530	24	2	187	1
30	5530	24	2.5	187	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	18	7.8	312	1
2	5530	17	6.1	353	1
3	5530	18	7.6	485	1
4	5530	17	8.6	252	1
5	5530	17	9.9	441	1
6	5530	16	8.2	395	1
7	5530	18	9.5	278	1
8	5530	16	6.6	302	1
9	5530	17	6.1	397	1
10	5530	17	9.5	377	1
11	5530	18	6	482	1
12	5530	16	6.3	359	1
13	5530	17	9.2	406	1
14	5530	18	6.5	240	1
15	5530	17	9.6	214	0
16	5530	17	7.9	435	1
17	5530	18	7.2	357	1
18	5530	18	7.2	298	1
19	5530	17	8.8	457	1
20	5530	17	9.9	457	1
21	5530	18	7.6	219	0
22	5530	16	9	363	1
23	5530	17	6.2	420	1
24	5530	18	7.4	300	1
25	5530	16	7.6	482	1
26	5530	18	10	425	1
27	5530	17	8.5	327	1
28	5530	16	7.2	357	1
29	5530	18	7.5	296	1
30	5530	16	8.9	280	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	5530	14	18.2	334	1
2	5530	13	13.7	475	0
3	5530	13	19	422	1
4	5530	14	19	488	1
5	5530	16	18.4	273	1
6	5530	13	18.1	328	1
7	5530	13	11.3	228	1
8	5530	15	14.9	493	1
9	5530	12	15.5	347	1
10	5530	13	18.4	500	0
11	5530	16	11.8	201	0
12	5530	15	18.8	344	1
13	5530	15	14.3	398	1
14	5530	13	19.8	386	1
15	5530	12	12.4	232	1
16	5530	14	15.8	225	0
17	5530	14	17.1	255	1
18	5530	16	13.6	299	1
19	5530	16	15.5	358	1
20	5530	14	11	347	1
21	5530	14	18.6	410	0
22	5530	13	11.9	227	1
23	5530	16	13.6	409	1
24	5530	16	12.6	464	1
25	5530	14	20	243	1
26	5530	14	17.8	250	1
27	5530	15	12.6	395	1
28	5530	12	11.9	450	1
29	5530	16	19.1	323	1
30	5530	13	19.8	350	1
Detection Percentage: 83.3 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5530	1
2	5530	1
3	5530	1
4	5530	1
5	5530	1
6	5530	1
7	5530	1
8	5530	1
9	5530	1
10	5530	1
11	5498.0	1
12	5494.8	1
13	5498.0	1
14	5496.4	1
15	5500.0	1
16	5498.8	1
17	5497.2	1
18	5496.8	1
19	5497.2	1
20	5498.8	1
21	5568.0	1
22	5564.8	1
23	5563.2	1
24	5566.4	1
25	5564.0	1
26	5563.2	1
27	5562.8	1
28	5567.6	1
29	5565.6	1
30	5563.2	1
Detection Percentage: 100 % (>80%)		

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	14	60.5			0.945681	1
1	2	14	62.7	1504		1.163685	
2	3	14	61.2	1758	1325	2.59298	
3	2	14	51.8	1438		3.316092	
4	2	14	94.5	1800		4.534201	
5	2	14	76	1335		5.439824	
6	3	14	96.7	1363	1719	6.860655	
7	1	14	54.9			7.199115	
8	3	14	90	1057	1943	8.595345	
9	1	14	76			9.073785	
10	3	14	63.6	1081	1801	10.762667	
11	2	14	80.4	1634		11.326092	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	83.3	1658		0.612822	1
1	2	10	52.4	1995		2.455771	
2	1	10	53.2			4.043721	
3	1	10	56.5			5.446853	
4	3	10	91	1403	1846	6.825741	
5	2	10	95.9	1048		8.356226	
6	1	10	83.1			9.601737	
7	1	10	50.2			10.808283	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	87.1	1750	1972	0.430347	
1	2	14	65.9	1409		1.311616	
2	2	14	75.2	1269		1.697312	
3	3	14	66	1780	1305	2.771047	
4	3	14	91.3	1155	1742	3.557822	
5	3	14	87.1	1616	1937	4.487434	
6	2	14	66.8	1014		5.503622	
7	2	14	83.2	1888		5.922892	1
8	3	14	88.1	1091	1021	6.908164	
9	3	14	68.7	1204	1597	7.242849	
10	1	14	87.4			8.633334	
11	2	14	85.5	1423		8.887203	
12	1	14	61.8			10.17903	
13	1	14	60.3			10.49552	
14	2	14	61.6	1443		11.419721	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	58.6			0.435032	
1	2	12	93.6	1403		2.055511	
2	2	12	66	1387		2.199152	
3	2	12	83.8	1532		3.568775	
4	1	12	91.6			4.488424	
5	2	12	65.2	1757		6.250482	1
6	2	12	61.2	1234		6.782853	
7	2	12	95.5	1538		7.818747	
8	3	12	64.9	1641	1374	9.152617	
9	2	12	63.5	1079		10.181501	
10	2	12	79.8	1251		11.058987	

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	6	91.6	1207		0.592194	1
1	2	6	76.3	1015		1.097553	
2	2	6	50	1695		1.550925	
3	3	6	57.8	1122	1245	2.387139	
4	1	6	93.8			3.300608	
5	3	6	57.3	1240	1456	3.700526	
6	1	6	81.5			4.430288	
7	3	6	67.4	1042	1109	5.271987	
8	3	6	76.3	1361	1163	5.833597	
9	1	6	62.8			6.283586	
10	1	6	84			7.043896	
11	1	6	92.3			7.392695	
12	2	6	84.8	1467		8.292186	
13	2	6	65.1	1728		9.09472	
14	2	6	94.2	1802		9.479229	
15	1	6	96.4			10.04939	
16	2	6	72.5	1558		10.905444	
17	2	6	55.8	1476		11.870851	

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	12	65.6	1355		1.264471	1
1	1	12	93			2.469825	
2	1	12	52.5			3.348678	
3	2	12	83.5	1544		5.807234	
4	2	12	81.8	1949		6.017704	
5	3	12	77.3	1192	1554	7.898132	
6	1	12	76.7			9.732701	
7	2	12	54.4	1949		10.924507	

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	6	90.8	1705		0.26457	1
1	1	6	78.8			1.801528	
2	2	6	85	1973		3.22623	
3	1	6	97			5.391958	
4	2	6	64.9	1948		7.475049	
5	2	6	91	1588		7.815307	
6	3	6	82.5	1963	1619	9.102036	
7	3	6	63	1755	1224	11.789373	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	92.8	1805	1398	0.269809	1
1	1	8	54.1			0.91601	
2	3	8	94.5	1175	1478	2.141034	
3	1	8	81.4			2.79612	
4	2	8	80.3	1956		3.082675	
5	3	8	71.2	1449	1509	3.87581	
6	2	8	86.2	1625		5.06573	
7	2	8	66.4	1675		5.926023	
8	1	8	100			6.597274	
9	1	8	52.8			7.250968	
10	2	8	93.7	1084		7.946634	
11	3	8	68.2	1336	1603	8.499677	
12	3	8	50.4	1817	1089	9.230676	
13	3	8	89.6	1655	1232	10.349606	
14	2	8	74.1	1607		10.549463	
15	2	8	88.5	1108		11.83857	

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	6	78.5	1824	1259	0.951007	1
1	1	6	72.4			2.414153	
2	2	6	91.2	1304		2.851958	
3	1	6	62.6			4.864891	
4	2	6	59	1267		6.224455	
5	2	6	78.4	1852		6.776697	
6	1	6	54.6			8.570613	
7	2	6	53	1158		10.323704	
8	2	6	85.9	1197		11.644446	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	50.4			0.004538	1
1	2	7	67.6	1565		0.683073	
2	2	7	93.3	1592		1.7704	
3	1	7	89			1.834869	
4	2	7	59	1746		2.547674	
5	3	7	98.2	1576	1931	3.499035	
6	3	7	53.5	1558	1770	4.079719	
7	1	7	73.2			4.216904	
8	1	7	67.4			5.082001	
9	3	7	74.2	1346	1429	5.547224	
10	3	7	70	1433	1891	6.157353	
11	2	7	65.4	1082		6.784659	
12	2	7	72.1	1429		7.764625	
13	2	7	98.8	1691		7.910133	
14	3	7	66.1	1968	1300	8.738778	
15	2	7	93.9	1390		9.456046	
16	2	7	73.3	1354		9.625549	
17	2	7	86.5	1540		10.533676	
18	1	7	64.3			11.163138	
19	2	7	81.5	1895		11.643378	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	92.9			0.070142	
1	2	15	51	1944		0.622916	
2	2	15	59.7	1721		1.399008	
3	3	15	67.3	1984	1305	2.380809	
4	2	15	64.4	1163		2.45535	
5	2	15	62.9	1829		3.258391	
6	3	15	61.2	1207	1365	4.078105	
7	1	15	63.1			4.778799	
8	1	15	88			5.020567	
9	1	15	90.6			5.929426	
10	2	15	54.7	1311		6.377823	1
11	3	15	88.9	1770	1726	6.757432	
12	3	15	72.9	1109	1640	7.617252	
13	1	15	91.7			8.31947	
14	3	15	64.4	1104	1323	8.905515	
15	3	15	91	1095	1364	9.586053	
16	3	15	83.3	1657	1673	9.892007	
17	3	15	74.3	1073	1480	10.722044	
18	1	15	78.2			10.896778	
19	3	15	98.6	1005	1745	11.682298	

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	62.1	1420		0.086365	
1	3	7	87.6	1028	1241	0.878797	
2	2	7	93.4	1888		1.976636	
3	1	7	83.1			2.306634	
4	1	7	74.6			2.853958	
5	1	7	70.5			3.512175	
6	2	7	52.4	1211		4.113927	
7	2	7	77.3	1902		5.120757	
8	1	7	80.4			5.419868	1
9	2	7	76.2	1939		6.280192	
10	2	7	60.9	1659		7.146411	
11	2	7	76	1073		7.621574	
12	3	7	86.5	1162	1142	8.458015	
13	1	7	66.6			8.882965	
14	2	7	80.8	1861		9.900999	
15	2	7	87.5	1356		10.383785	
16	3	7	89.3	1660	1255	10.818059	
17	2	7	99.9	1183		11.711487	

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	15	50.9			0.408864	
1	2	15	62.2	1864		1.727749	
2	2	15	61.4	1573		2.792562	
3	1	15	63.8			3.518785	
4	1	15	85.2			5.397922	
5	1	15	50.3			5.901893	1
6	2	15	56.8	1746		6.706351	
7	1	15	64.3			8.624317	
8	2	15	93.7	1324		9.072819	
9	1	15	66.2			10.02392	
10	2	15	79.2	1309		11.407113	

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	11	66.3	1228	1368	0.316409	
1	2	11	57	1879		1.10195	
2	2	11	87.1	1753		1.843674	
3	1	11	88.3			2.275652	
4	1	11	58.7			2.945256	
5	2	11	95.3	1938		3.624663	
6	2	11	77.5	1297		4.127622	
7	2	11	73.4	1730		4.834095	
8	2	11	57	1536		5.327553	
9	2	11	94.8	1080		6.020806	1
10	1	11	61.8			6.531614	
11	3	11	67.7	1888	1653	7.132898	
12	2	11	77.6	1523		7.821467	
13	3	11	52.4	1765	1934	8.57181	
14	2	11	97.6	1048		9.398254	
15	1	11	63.6			10.058134	
16	2	11	85.1	1339		10.131652	
17	3	11	53.6	1550	1804	11.015183	
18	1	11	95.3			11.403339	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	20	55.2	1593	1813	0.39993	1
1	1	20	87			1.098184	
2	1	20	78.9			1.790017	
3	2	20	63.5	1355		2.092471	
4	3	20	69	1535	1865	2.718202	
5	2	20	63.7	1052		3.407774	
6	3	20	83.2	1115	1381	4.136177	
7	3	20	84.2	1320	1066	4.689459	
8	2	20	71.3	1172		5.39299	
9	1	20	91.4			5.987187	
10	2	20	59	1738		6.239689	
11	2	20	64.5	1899		6.837872	
12	3	20	93.1	1961	1521	7.633588	
13	1	20	67.7			8.135325	
14	1	20	87.7			8.847506	
15	3	20	70.2	1307	1802	9.591608	
16	2	20	77.9	1650		9.615706	
17	2	20	80.3	1823		10.640597	
18	2	20	52.2	1466		11.000665	
19	2	20	93	1511		11.772181	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	52.9	1067	1900	0.496217	1
1	3	17	76	1544	1191	1.67231	
2	2	17	83	1518		3.6031	
3	1	17	93.3			4.450863	
4	2	17	56.5	1816		6.1159	
5	3	17	72	1824	1081	6.97423	
6	3	17	74.6	1645	1388	8.800504	
7	2	17	58.2	1699		9.742187	
8	3	17	69.2	1070	1212	11.540382	

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	13	87.1	1131	1552	0.707662	1
1	3	13	62.1	1871	1857	1.685549	
2	3	13	50.5	1262	1626	2.225879	
3	2	13	50	1994		3.066623	
4	2	13	57.7	1278		4.035481	
5	1	13	55.7			5.066888	
6	3	13	57.1	1450	1402	5.517615	
7	3	13	65.2	1557	1466	6.730886	
8	3	13	73.8	1183	1816	6.887924	
9	1	13	95.5			8.320643	
10	2	13	76.2	1343		9.374535	
11	2	13	72.2	1552		9.724348	
12	3	13	64.5	1470	1365	10.51555	
13	2	13	61.1	1789		11.70786	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	81.1	1889	1447	0.307114	1
1	1	12	71			1.046879	
2	1	12	51.3			2.267608	
3	3	12	75.8	1388	1421	2.593535	
4	3	12	71.2	1979	1010	3.811678	
5	3	12	91.8	1491	1428	4.719877	
6	1	12	57.1			5.006057	
7	3	12	60.7	1929	1475	6.02538	
8	2	12	87.1	1005		6.405342	
9	1	12	72.3			7.238295	
10	2	12	79.3	1058		8.224997	
11	2	12	61.7	1470		8.878886	
12	2	12	70.2	1333		10.027308	
13	2	12	64.5	1259		10.791928	
14	2	12	93.1	1245		11.867212	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	94.6			1.112428	1
1	3	13	57.7	1267	1213	2.032753	
2	2	13	89	1546		2.623514	
3	2	13	96.8	1552		3.860567	
4	3	13	85.4	1444	1807	5.551143	
5	3	13	95	1163	1522	6.089326	
6	1	13	59			7.822678	
7	2	13	96.5	1119		9.296329	
8	1	13	69.3			9.711142	
9	1	13	80.3			11.756781	

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	75.7	1777		0.604616	1
1	2	17	50.7	1460		0.922171	
2	1	17	52.1			2.099566	
3	3	17	50.3	1902	1818	3.010391	
4	2	17	59.7	1109		3.505555	
5	1	17	51.6			4.724883	
6	2	17	64.8	1707		5.481626	
7	3	17	57.5	1121	1834	6.269956	
8	1	17	51.6			6.75447	
9	1	17	67.4			7.713393	
10	1	17	81.1			8.592101	
11	3	17	70.7	1714	1761	9.435161	
12	2	17	64.7	1246		10.014455	
13	3	17	56.4	1664	1052	10.564936	
14	2	17	75.7	1948		11.441457	

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	5	69	1208		0.619738	1
1	2	5	89.3	1248		1.648622	
2	1	5	65.1			2.769865	
3	2	5	82.5	1067		3.798724	
4	2	5	67.6	1153		4.932744	
5	1	5	70.9			5.73969	
6	1	5	52.4			6.689597	
7	3	5	90.5	1915	1378	7.121701	
8	1	5	83.6			8.503033	
9	2	5	60.9	1825		9.854925	
10	3	5	81.2	1117	1543	10.265905	
11	2	5	56	1027		11.90217	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	97.9	1122	1831	0.221201	1
1	2	13	95.1	1559		1.405576	
2	1	13	87.2			1.744001	
3	1	13	81.5			2.660282	
4	2	13	78.1	1936		4.029955	
5	3	13	95.7	1824	1082	4.319523	
6	2	13	59.7	1245		5.27979	
7	2	13	73	1703		6.411099	
8	2	13	93.5	1090		7.241778	
9	1	13	70.1			7.978517	
10	2	13	67.2	1618		8.80506	
11	2	13	85.4	1416		10.111659	
12	2	13	53.3	1506		10.991837	
13	2	13	69.7	1996		11.262041	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	95.3	1958		1.29581	1
1	3	17	81.3	1678	1238	1.957314	
2	1	17	63			3.701849	
3	1	17	78			4.480792	
4	3	17	91.4	1216	1851	6.295217	
5	3	17	92.7	1399	1392	7.956315	
6	1	17	91.9			9.293741	
7	2	17	68.6	1949		10.542919	
8	2	17	55.7	1894		11.069333	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	77.6	1062	1439	0.433331	1
1	1	9	54.5			1.436823	
2	1	9	99.6			2.807326	
3	2	9	54.5	1492		3.841421	
4	3	9	91.8	1613	1514	4.749993	
5	3	9	68.3	1585	1509	5.718741	
6	2	9	69.2	1610		6.886553	
7	1	9	69			7.339604	
8	2	9	78.8	1550		8.813368	
9	2	9	71.9	1725		9.506711	
10	1	9	78.3			10.5576	
11	3	9	62	1892	1811	11.898743	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	50	1856		1.153195	1
1	2	15	58.9	1468		2.692379	
2	2	15	51	1746		4.146294	
3	2	15	66	1499		5.072223	
4	3	15	60.9	1514	1367	6.970922	
5	1	15	61.2			7.734215	
6	2	15	57.8	1264		9.984057	
7	2	15	99.9	1341		10.954592	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	54.6			0.697119	1
1	1	17	58.6			1.563211	
2	2	17	86.8	1804		2.191633	
3	2	17	79.8	1531		3.315079	
4	2	17	76	1812		4.108315	
5	2	17	56.4	1508		4.864946	
6	2	17	78.2	1050		5.677374	
7	2	17	80.8	1179		6.187	
8	2	17	59.5	1889		7.126337	
9	1	17	63.9			8.391786	
10	2	17	57.3	1780		8.946889	
11	2	17	73	1897		9.840154	
12	2	17	82.3	1621		10.642351	
13	2	17	88.2	1802		11.81178	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	67.1	1490		0.852008	1
1	3	18	63.8	1085	1838	0.994769	
2	1	18	69.6			1.985653	
3	2	18	65.2	1574		2.834111	
4	1	18	59.6			4.491029	
5	2	18	52.6	1040		5.53025	
6	3	18	57.4	1409	1904	5.837505	
7	1	18	76.1			6.540462	
8	2	18	68.2	1386		7.810223	
9	3	18	59.9	1773	1310	9.078981	
10	2	18	56.5	1525		9.989462	
11	2	18	86.2	1610		10.175341	
12	1	18	76.7			11.79929	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	90	1671	1249	0.689781	1
1	3	6	94.3	1180	1757	1.670802	
2	1	6	56.8			2.765155	
3	2	6	96.2	1897		3.436508	
4	3	6	68	1019	1107	4.501641	
5	3	6	96.5	1016	1590	4.901067	
6	1	6	83.3			6.299623	
7	2	6	93.1	1199		6.883827	
8	2	6	95.8	1582		7.415749	
9	3	6	74.1	1685	1252	8.748155	
10	2	6	72	1524		10.132258	
11	2	6	64.9	1681		10.67281	
12	2	6	83.3	1246		11.093863	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	66.6	1397		0.598727	1
1	2	11	53.7	1462		1.444223	
2	3	11	76.8	1876	1203	2.183924	
3	3	11	63.2	1918	1313	3.129523	
4	3	11	91.8	1842	1860	3.900012	
5	2	11	57.1	1189		4.340478	
6	1	11	66.3			5.46023	
7	1	11	95.2			6.328633	
8	2	11	81.6	1195		6.591604	
9	1	11	76.9			7.955783	
10	2	11	60.5	1903		8.408339	
11	2	11	93	1111		9.146224	
12	1	11	59.9			9.708311	
13	2	11	72.9	1469		10.714545	
14	3	11	97.2	1585	1631	11.778129	

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	17	70.7	1314		0.013594	1
1	2	17	72	1326		1.513285	
2	1	17	84			2.273049	
3	3	17	86.9	1628	1424	3.002918	
4	3	17	68.2	1545	1090	3.510981	
5	1	17	86.1			4.591107	
6	2	17	93.9	1206		4.910496	
7	2	17	95.9	1490		5.901701	
8	3	17	83.9	1380	1554	6.925557	
9	2	17	70.7	1256		7.861305	
10	1	17	61.3			8.374882	
11	3	17	96.4	1015	1451	9.127488	
12	2	17	69.3	1460		10.31282	
13	3	17	94.3	1664	1634	10.584516	
14	2	17	77.1	1711		11.54668	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5530	9	1	333	1	5327.0, 5492.0, 5346.0, 5695.0, 5518.0, 5706.0, 5653.0, 5459.0, 5680.0, 5377.0, 5403.0, 5565.0, 5579.0, 5364.0, 5599.0, 5443.0, 5650.0, 5410.0, 5317.0, 5603.0, 5723.0, 5640.0, 5457.0, 5301.0, 5392.0, 5559.0, 5575.0, 5508.0, 5291.0, 5274.0, 5503.0, 5561.0, 5380.0, 5522.0, 5397.0, 5482.0, 5402.0, 5662.0, 5585.0, 5586.0, 5563.0, 5276.0, 5314.0, 5629.0, 5544.0, 5528.0, 5460.0, 5414.0, 5371.0, 5355.0, 5435.0, 5517.0, 5423.0, 5404.0, 5654.0, 5466.0, 5427.0, 5689.0, 5450.0, 5537.0, 5661.0, 5412.0, 5469.0, 5511.0, 5700.0, 5713.0, 5373.0, 5609.0, 5670.0, 5345.0, 5699.0, 5273.0, 5721.0, 5553.0, 5545.0, 5311.0, 5300.0, 5643.0, 5571.0, 5324.0, 5574.0, 5340.0, 5348.0, 5648.0, 5453.0, 5696.0, 5595.0, 5472.0, 5452.0, 5393.0, 5694.0, 5477.0, 5598.0, 5262.0, 5697.0, 5357.0, 5470.0, 5655.0, 5445.0, 5284.0 (number of hits: 16)
2	5530	9	1	333	1	5507.0, 5656.0, 5381.0, 5405.0, 5595.0, 5685.0, 5421.0, 5648.0, 5607.0, 5703.0, 5563.0, 5374.0, 5280.0, 5384.0, 5301.0, 5419.0, 5580.0, 5355.0, 5721.0, 5478.0, 5571.0, 5346.0, 5486.0, 5603.0, 5627.0, 5279.0, 5352.0, 5437.0, 5305.0, 5708.0, 5472.0, 5512.0, 5716.0, 5552.0, 5315.0, 5638.0, 5462.0, 5442.0, 5647.0, 5413.0, 5508.0, 5653.0, 5391.0, 5560.0, 5623.0, 5683.0, 5707.0, 5414.0, 5411.0, 5705.0, 5680.0, 5625.0, 5582.0, 5428.0, 5568.0, 5503.0, 5494.0, 5475.0, 5688.0, 5314.0, 5359.0, 5340.0, 5497.0, 5306.0, 5262.0, 5257.0, 5522.0, 5416.0, 5597.0, 5254.0, 5534.0, 5644.0, 5401.0, 5646.0, 5589.0, 5525.0, 5304.0, 5474.0, 5345.0, 5545.0, 5308.0, 5350.0, 5655.0, 5694.0, 5434.0, 5650.0, 5574.0, 5689.0, 5365.0, 5698.0, 5250.0, 5722.0, 5412.0, 5504.0, 5645.0, 5484.0, 5540.0, 5318.0, 5256.0, 5587.0 (number of hits: 16)
3	5530	9	1	333	1	5313.0, 5543.0, 5395.0, 5420.0, 5626.0, 5693.0, 5639.0, 5455.0, 5573.0, 5265.0, 5689.0, 5422.0, 5331.0, 5352.0, 5606.0, 5558.0, 5299.0, 5419.0, 5397.0, 5391.0, 5645.0, 5580.0, 5669.0, 5259.0, 5371.0, 5531.0, 5605.0, 5377.0, 5542.0, 5279.0, 5612.0, 5324.0, 5406.0, 5353.0, 5615.0, 5611.0, 5493.0, 5325.0, 5587.0, 5304.0, 5336.0, 5349.0, 5563.0, 5384.0, 5266.0, 5539.0, 5318.0, 5454.0, 5256.0, 5663.0, 5298.0, 5701.0, 5423.0, 5370.0, 5280.0,

						5608.0, 5441.0, 5484.0, 5570.0, 5586.0, 5673.0, 5361.0, 5296.0, 5332.0, 5270.0, 5631.0, 5623.0, 5636.0, 5429.0, 5660.0, 5277.0, 5487.0, 5520.0, 5448.0, 5647.0, 5287.0, 5460.0, 5656.0, 5581.0, 5653.0, 5702.0, 5272.0, 5480.0, 5552.0, 5320.0, 5564.0, 5664.0, 5381.0, 5483.0, 5619.0, 5482.0, 5583.0, 5392.0, 5675.0, 5293.0, 5519.0, 5253.0, 5462.0, 5456.0, 5367.0 (number of hits: 11)
4	5530	9	1	333	1	5294.0, 5262.0, 5477.0, 5680.0, 5398.0, 5708.0, 5700.0, 5494.0, 5714.0, 5676.0, 5458.0, 5259.0, 5316.0, 5474.0, 5623.0, 5625.0, 5312.0, 5617.0, 5502.0, 5719.0, 5322.0, 5263.0, 5424.0, 5439.0, 5664.0, 5346.0, 5628.0, 5718.0, 5365.0, 5361.0, 5320.0, 5438.0, 5319.0, 5379.0, 5658.0, 5694.0, 5697.0, 5684.0, 5372.0, 5698.0, 5413.0, 5355.0, 5277.0, 5640.0, 5528.0, 5686.0, 5532.0, 5592.0, 5390.0, 5290.0, 5663.0, 5279.0, 5602.0, 5591.0, 5333.0, 5654.0, 5546.0, 5469.0, 5456.0, 5583.0, 5391.0, 5409.0, 5717.0, 5562.0, 5626.0, 5261.0, 5595.0, 5376.0, 5360.0, 5526.0, 5318.0, 5509.0, 5523.0, 5380.0, 5571.0, 5608.0, 5321.0, 5313.0, 5327.0, 5306.0, 5682.0, 5388.0, 5645.0, 5721.0, 5473.0, 5673.0, 5519.0, 5696.0, 5367.0, 5584.0, 5344.0, 5342.0, 5549.0, 5542.0, 5493.0, 5421.0, 5383.0, 5335.0, 5575.0, 5285.0 (number of hits: 13)
5	5530	9	1	333	1	5460.0, 5550.0, 5457.0, 5423.0, 5487.0, 5405.0, 5651.0, 5591.0, 5615.0, 5702.0, 5289.0, 5678.0, 5609.0, 5558.0, 5526.0, 5392.0, 5299.0, 5398.0, 5483.0, 5290.0, 5589.0, 5302.0, 5482.0, 5628.0, 5283.0, 5564.0, 5594.0, 5356.0, 5601.0, 5531.0, 5569.0, 5263.0, 5599.0, 5713.0, 5407.0, 5515.0, 5499.0, 5317.0, 5365.0, 5484.0, 5400.0, 5326.0, 5267.0, 5581.0, 5315.0, 5439.0, 5467.0, 5488.0, 5346.0, 5376.0, 5578.0, 5477.0, 5362.0, 5287.0, 5555.0, 5533.0, 5293.0, 5553.0, 5539.0, 5682.0, 5557.0, 5606.0, 5655.0, 5618.0, 5579.0, 5258.0, 5605.0, 5422.0, 5436.0, 5675.0, 5308.0, 5687.0, 5602.0, 5456.0, 5454.0, 5387.0, 5498.0, 5469.0, 5680.0, 5543.0, 5510.0, 5597.0, 5611.0, 5668.0, 5566.0, 5364.0, 5519.0, 5610.0, 5435.0, 5320.0, 5528.0, 5339.0, 5424.0, 5613.0, 5310.0, 5444.0, 5380.0, 5300.0, 5514.0, 5411.0 (number of hits: 20)
6	5530	9	1	333	1	5530.0, 5537.0, 5470.0, 5618.0, 5447.0, 5418.0, 5337.0, 5262.0, 5493.0, 5339.0, 5603.0, 5275.0, 5518.0, 5585.0, 5527.0, 5314.0, 5523.0, 5282.0, 5583.0, 5294.0, 5552.0, 5525.0, 5616.0, 5512.0, 5703.0, 5379.0, 5668.0, 5634.0, 5623.0, 5473.0, 5264.0, 5625.0, 5288.0, 5434.0, 5341.0,

						5592.0, 5501.0, 5492.0, 5316.0, 5507.0, 5440.0, 5428.0, 5406.0, 5713.0, 5656.0, 5256.0, 5425.0, 5287.0, 5412.0, 5596.0, 5357.0, 5365.0, 5335.0, 5481.0, 5283.0, 5655.0, 5491.0, 5553.0, 5684.0, 5522.0, 5517.0, 5391.0, 5528.0, 5343.0, 5265.0, 5711.0, 5276.0, 5529.0, 5421.0, 5503.0, 5535.0, 5469.0, 5660.0, 5612.0, 5390.0, 5313.0, 5568.0, 5486.0, 5695.0, 5534.0, 5510.0, 5427.0, 5376.0, 5718.0, 5407.0, 5397.0, 5500.0, 5375.0, 5351.0, 5635.0, 5598.0, 5694.0, 5498.0, 5420.0, 5676.0, 5410.0, 5489.0, 5720.0, 5580.0, 5546.0 (number of hits: 26)
7	5530	9	1	333	1	5694.0, 5331.0, 5306.0, 5463.0, 5360.0, 5457.0, 5413.0, 5260.0, 5622.0, 5352.0, 5620.0, 5438.0, 5546.0, 5504.0, 5473.0, 5689.0, 5396.0, 5531.0, 5720.0, 5664.0, 5367.0, 5301.0, 5645.0, 5688.0, 5406.0, 5619.0, 5692.0, 5466.0, 5325.0, 5357.0, 5534.0, 5538.0, 5450.0, 5298.0, 5439.0, 5637.0, 5350.0, 5440.0, 5648.0, 5691.0, 5393.0, 5423.0, 5452.0, 5526.0, 5557.0, 5644.0, 5491.0, 5587.0, 5287.0, 5543.0, 5682.0, 5719.0, 5518.0, 5535.0, 5401.0, 5443.0, 5618.0, 5345.0, 5498.0, 5544.0, 5596.0, 5317.0, 5485.0, 5456.0, 5419.0, 5330.0, 5626.0, 5454.0, 5398.0, 5497.0, 5582.0, 5707.0, 5522.0, 5400.0, 5418.0, 5295.0, 5276.0, 5402.0, 5712.0, 5709.0, 5591.0, 5293.0, 5455.0, 5647.0, 5561.0, 5315.0, 5341.0, 5675.0, 5412.0, 5354.0, 5678.0, 5311.0, 5364.0, 5458.0, 5277.0, 5610.0, 5503.0, 5493.0, 5554.0, 5267.0 (number of hits: 19)
8	5530	9	1	333	1	5345.0, 5284.0, 5445.0, 5473.0, 5373.0, 5423.0, 5714.0, 5693.0, 5490.0, 5305.0, 5349.0, 5501.0, 5559.0, 5268.0, 5496.0, 5392.0, 5397.0, 5326.0, 5290.0, 5380.0, 5598.0, 5653.0, 5377.0, 5471.0, 5307.0, 5575.0, 5410.0, 5528.0, 5458.0, 5336.0, 5465.0, 5586.0, 5494.0, 5617.0, 5300.0, 5526.0, 5512.0, 5484.0, 5555.0, 5287.0, 5356.0, 5711.0, 5297.0, 5641.0, 5258.0, 5663.0, 5619.0, 5452.0, 5600.0, 5278.0, 5436.0, 5314.0, 5346.0, 5453.0, 5424.0, 5288.0, 5510.0, 5280.0, 5631.0, 5706.0, 5459.0, 5609.0, 5479.0, 5554.0, 5507.0, 5683.0, 5419.0, 5579.0, 5325.0, 5593.0, 5667.0, 5422.0, 5321.0, 5469.0, 5615.0, 5611.0, 5622.0, 5313.0, 5514.0, 5319.0, 5438.0, 5720.0, 5616.0, 5341.0, 5566.0, 5701.0, 5330.0, 5643.0, 5629.0, 5679.0, 5432.0, 5602.0, 5411.0, 5561.0, 5649.0, 5694.0, 5443.0, 5539.0, 5310.0, 5267.0 (number of hits: 16)
9	5530	9	1	333	1	5708.0, 5291.0, 5507.0, 5297.0, 5480.0, 5705.0, 5377.0, 5382.0, 5342.0, 5477.0, 5678.0, 5444.0, 5271.0, 5636.0, 5363.0,

						5642.0, 5584.0, 5646.0, 5503.0, 5723.0, 5427.0, 5335.0, 5709.0, 5485.0, 5553.0, 5658.0, 5283.0, 5596.0, 5562.0, 5559.0, 5615.0, 5329.0, 5397.0, 5351.0, 5573.0, 5621.0, 5280.0, 5681.0, 5331.0, 5661.0, 5416.0, 5425.0, 5364.0, 5443.0, 5440.0, 5488.0, 5704.0, 5282.0, 5580.0, 5365.0, 5649.0, 5622.0, 5694.0, 5337.0, 5609.0, 5293.0, 5345.0, 5500.0, 5543.0, 5324.0, 5447.0, 5448.0, 5284.0, 5308.0, 5504.0, 5575.0, 5616.0, 5599.0, 5640.0, 5557.0, 5454.0, 5487.0, 5721.0, 5691.0, 5320.0, 5579.0, 5551.0, 5641.0, 5288.0, 5663.0, 5468.0, 5359.0, 5252.0, 5270.0, 5675.0, 5600.0, 5253.0, 5667.0, 5266.0, 5633.0, 5702.0, 5465.0, 5715.0, 5400.0, 5696.0, 5570.0, 5317.0, 5355.0, 5451.0, 5722.0 (number of hits: 10)
10	5530	9	1	333	1	5691.0, 5570.0, 5330.0, 5365.0, 5712.0, 5623.0, 5296.0, 5710.0, 5519.0, 5561.0, 5483.0, 5722.0, 5421.0, 5520.0, 5564.0, 5329.0, 5430.0, 5617.0, 5547.0, 5352.0, 5278.0, 5472.0, 5441.0, 5442.0, 5485.0, 5457.0, 5493.0, 5297.0, 5255.0, 5439.0, 5515.0, 5624.0, 5307.0, 5681.0, 5416.0, 5557.0, 5650.0, 5287.0, 5345.0, 5660.0, 5545.0, 5460.0, 5436.0, 5348.0, 5456.0, 5593.0, 5284.0, 5556.0, 5620.0, 5410.0, 5362.0, 5356.0, 5536.0, 5382.0, 5418.0, 5637.0, 5631.0, 5553.0, 5517.0, 5342.0, 5290.0, 5292.0, 5692.0, 5469.0, 5537.0, 5586.0, 5306.0, 5704.0, 5401.0, 5523.0, 5526.0, 5625.0, 5350.0, 5578.0, 5359.0, 5657.0, 5308.0, 5324.0, 5721.0, 5327.0, 5270.0, 5701.0, 5656.0, 5698.0, 5538.0, 5529.0, 5274.0, 5635.0, 5579.0, 5622.0, 5717.0, 5413.0, 5671.0, 5373.0, 5713.0, 5709.0, 5640.0, 5433.0, 5437.0, 5554.0 (number of hits: 19)
11	5530	9	1	333	1	5634.0, 5668.0, 5654.0, 5522.0, 5388.0, 5288.0, 5620.0, 5296.0, 5572.0, 5613.0, 5294.0, 5335.0, 5553.0, 5360.0, 5520.0, 5456.0, 5366.0, 5332.0, 5425.0, 5269.0, 5401.0, 5501.0, 5588.0, 5552.0, 5301.0, 5708.0, 5407.0, 5454.0, 5439.0, 5589.0, 5563.0, 5346.0, 5461.0, 5402.0, 5495.0, 5302.0, 5637.0, 5479.0, 5357.0, 5719.0, 5527.0, 5285.0, 5399.0, 5692.0, 5282.0, 5560.0, 5618.0, 5616.0, 5513.0, 5266.0, 5283.0, 5267.0, 5256.0, 5334.0, 5353.0, 5412.0, 5342.0, 5446.0, 5354.0, 5567.0, 5545.0, 5396.0, 5655.0, 5631.0, 5615.0, 5561.0, 5531.0, 5607.0, 5698.0, 5299.0, 5413.0, 5609.0, 5297.0, 5450.0, 5584.0, 5581.0, 5629.0, 5509.0, 5555.0, 5696.0, 5583.0, 5468.0, 5318.0, 5630.0, 5568.0, 5542.0, 5326.0, 5257.0, 5262.0, 5521.0, 5437.0, 5688.0, 5322.0, 5623.0, 5433.0, 5383.0, 5271.0, 5515.0, 5255.0, 5577.0

						(number of hits: 20)
12	5530	9	1	333	1	5582.0, 5401.0, 5561.0, 5664.0, 5405.0, 5640.0, 5547.0, 5347.0, 5696.0, 5466.0, 5381.0, 5368.0, 5271.0, 5467.0, 5666.0, 5343.0, 5496.0, 5517.0, 5449.0, 5482.0, 5277.0, 5532.0, 5506.0, 5652.0, 5255.0, 5483.0, 5604.0, 5612.0, 5684.0, 5289.0, 5592.0, 5559.0, 5468.0, 5610.0, 5599.0, 5516.0, 5370.0, 5316.0, 5546.0, 5380.0, 5451.0, 5361.0, 5342.0, 5714.0, 5568.0, 5638.0, 5349.0, 5650.0, 5359.0, 5283.0, 5718.0, 5491.0, 5616.0, 5319.0, 5630.0, 5525.0, 5396.0, 5447.0, 5431.0, 5677.0, 5632.0, 5631.0, 5542.0, 5614.0, 5576.0, 5426.0, 5583.0, 5268.0, 5700.0, 5253.0, 5337.0, 5265.0, 5266.0, 5672.0, 5292.0, 5291.0, 5513.0, 5697.0, 5341.0, 5440.0, 5274.0, 5346.0, 5446.0, 5518.0, 5290.0, 5427.0, 5486.0, 5692.0, 5495.0, 5428.0, 5676.0, 5403.0, 5439.0, 5475.0, 5474.0, 5387.0, 5379.0, 5701.0, 5562.0, 5369.0 (number of hits: 17)
13	5530	9	1	333	1	5368.0, 5512.0, 5563.0, 5453.0, 5518.0, 5411.0, 5361.0, 5261.0, 5610.0, 5521.0, 5323.0, 5416.0, 5396.0, 5309.0, 5383.0, 5434.0, 5638.0, 5506.0, 5395.0, 5341.0, 5468.0, 5625.0, 5622.0, 5310.0, 5612.0, 5674.0, 5475.0, 5657.0, 5632.0, 5456.0, 5446.0, 5463.0, 5273.0, 5397.0, 5439.0, 5520.0, 5284.0, 5297.0, 5345.0, 5591.0, 5692.0, 5369.0, 5343.0, 5262.0, 5679.0, 5601.0, 5460.0, 5287.0, 5391.0, 5481.0, 5366.0, 5540.0, 5619.0, 5673.0, 5268.0, 5570.0, 5360.0, 5444.0, 5604.0, 5339.0, 5471.0, 5253.0, 5689.0, 5509.0, 5697.0, 5588.0, 5510.0, 5277.0, 5485.0, 5537.0, 5365.0, 5458.0, 5359.0, 5654.0, 5258.0, 5305.0, 5379.0, 5650.0, 5457.0, 5267.0, 5683.0, 5716.0, 5639.0, 5352.0, 5616.0, 5263.0, 5435.0, 5349.0, 5449.0, 5274.0, 5695.0, 5389.0, 5281.0, 5515.0, 5259.0, 5286.0, 5528.0, 5532.0, 5356.0, 5542.0 (number of hits: 14)
14	5530	9	1	333	1	5710.0, 5607.0, 5512.0, 5718.0, 5700.0, 5265.0, 5348.0, 5507.0, 5439.0, 5536.0, 5260.0, 5603.0, 5640.0, 5394.0, 5615.0, 5421.0, 5263.0, 5339.0, 5673.0, 5590.0, 5271.0, 5452.0, 5402.0, 5654.0, 5636.0, 5701.0, 5691.0, 5477.0, 5325.0, 5449.0, 5371.0, 5526.0, 5541.0, 5509.0, 5522.0, 5566.0, 5667.0, 5300.0, 5583.0, 5440.0, 5510.0, 5476.0, 5508.0, 5622.0, 5528.0, 5438.0, 5331.0, 5411.0, 5621.0, 5308.0, 5422.0, 5568.0, 5638.0, 5493.0, 5280.0, 5543.0, 5646.0, 5609.0, 5580.0, 5686.0, 5365.0, 5434.0, 5428.0, 5699.0, 5688.0, 5417.0, 5381.0, 5663.0, 5471.0, 5382.0, 5305.0, 5455.0, 5484.0, 5332.0, 5424.0, 5514.0, 5542.0, 5314.0, 5431.0, 5649.0,

						5388.0, 5349.0, 5501.0, 5398.0, 5489.0, 5610.0, 5297.0, 5676.0, 5500.0, 5251.0, 5554.0, 5576.0, 5458.0, 5637.0, 5602.0, 5340.0, 5475.0, 5487.0, 5513.0, 5311.0 (number of hits: 20)
15	5530	9	1	333	1	5675.0, 5586.0, 5278.0, 5353.0, 5615.0, 5592.0, 5482.0, 5463.0, 5549.0, 5286.0, 5596.0, 5525.0, 5412.0, 5464.0, 5602.0, 5648.0, 5382.0, 5319.0, 5312.0, 5686.0, 5253.0, 5270.0, 5332.0, 5552.0, 5655.0, 5411.0, 5595.0, 5323.0, 5389.0, 5261.0, 5610.0, 5718.0, 5600.0, 5645.0, 5630.0, 5717.0, 5637.0, 5524.0, 5262.0, 5661.0, 5437.0, 5710.0, 5393.0, 5392.0, 5467.0, 5543.0, 5522.0, 5555.0, 5664.0, 5448.0, 5466.0, 5713.0, 5314.0, 5284.0, 5659.0, 5276.0, 5672.0, 5422.0, 5477.0, 5472.0, 5268.0, 5570.0, 5566.0, 5445.0, 5564.0, 5481.0, 5579.0, 5479.0, 5441.0, 5453.0, 5395.0, 5485.0, 5624.0, 5424.0, 5598.0, 5562.0, 5547.0, 5666.0, 5346.0, 5446.0, 5331.0, 5662.0, 5344.0, 5277.0, 5532.0, 5706.0, 5460.0, 5275.0, 5414.0, 5432.0, 5335.0, 5606.0, 5660.0, 5451.0, 5380.0, 5388.0, 5309.0, 5697.0, 5322.0, 5291.0 (number of hits: 12)
16	5530	9	1	333	1	5627.0, 5338.0, 5380.0, 5634.0, 5602.0, 5498.0, 5709.0, 5511.0, 5440.0, 5470.0, 5579.0, 5705.0, 5294.0, 5269.0, 5293.0, 5469.0, 5591.0, 5411.0, 5403.0, 5694.0, 5341.0, 5415.0, 5566.0, 5382.0, 5326.0, 5679.0, 5423.0, 5391.0, 5626.0, 5394.0, 5365.0, 5264.0, 5434.0, 5598.0, 5573.0, 5388.0, 5286.0, 5597.0, 5325.0, 5442.0, 5419.0, 5717.0, 5716.0, 5600.0, 5274.0, 5299.0, 5678.0, 5601.0, 5308.0, 5312.0, 5289.0, 5433.0, 5496.0, 5698.0, 5369.0, 5438.0, 5484.0, 5501.0, 5695.0, 5307.0, 5291.0, 5455.0, 5662.0, 5344.0, 5386.0, 5279.0, 5420.0, 5718.0, 5613.0, 5357.0, 5632.0, 5425.0, 5437.0, 5522.0, 5427.0, 5489.0, 5435.0, 5631.0, 5456.0, 5253.0, 5339.0, 5389.0, 5584.0, 5495.0, 5680.0, 5458.0, 5549.0, 5623.0, 5588.0, 5424.0, 5405.0, 5255.0, 5615.0, 5643.0, 5524.0, 5547.0, 5642.0, 5331.0, 5254.0, 5336.0 (number of hits: 10)
17	5530	9	1	333	1	5540.0, 5268.0, 5646.0, 5375.0, 5525.0, 5661.0, 5523.0, 5607.0, 5585.0, 5391.0, 5384.0, 5581.0, 5518.0, 5629.0, 5534.0, 5610.0, 5544.0, 5265.0, 5700.0, 5501.0, 5561.0, 5402.0, 5427.0, 5461.0, 5345.0, 5620.0, 5367.0, 5637.0, 5538.0, 5573.0, 5669.0, 5698.0, 5643.0, 5676.0, 5648.0, 5362.0, 5505.0, 5639.0, 5332.0, 5515.0, 5360.0, 5282.0, 5446.0, 5393.0, 5472.0, 5269.0, 5558.0, 5409.0, 5435.0, 5517.0, 5597.0, 5401.0, 5566.0, 5512.0, 5412.0, 5694.0, 5577.0, 5626.0, 5382.0, 5548.0,

						5555.0, 5713.0, 5398.0, 5546.0, 5476.0, 5261.0, 5410.0, 5677.0, 5438.0, 5290.0, 5363.0, 5342.0, 5521.0, 5300.0, 5602.0, 5674.0, 5612.0, 5445.0, 5659.0, 5432.0, 5575.0, 5663.0, 5477.0, 5453.0, 5644.0, 5319.0, 5702.0, 5539.0, 5361.0, 5654.0, 5328.0, 5262.0, 5449.0, 5645.0, 5683.0, 5478.0, 5253.0, 5642.0, 5257.0, 5462.0 (number of hits: 20)
18	5530	9	1	333	1	5258.0, 5267.0, 5524.0, 5588.0, 5616.0, 5400.0, 5349.0, 5610.0, 5377.0, 5551.0, 5521.0, 5591.0, 5436.0, 5279.0, 5321.0, 5721.0, 5331.0, 5272.0, 5684.0, 5452.0, 5395.0, 5262.0, 5481.0, 5410.0, 5561.0, 5694.0, 5540.0, 5280.0, 5535.0, 5371.0, 5458.0, 5681.0, 5683.0, 5251.0, 5663.0, 5468.0, 5316.0, 5443.0, 5618.0, 5454.0, 5422.0, 5306.0, 5288.0, 5559.0, 5451.0, 5569.0, 5511.0, 5495.0, 5384.0, 5324.0, 5715.0, 5490.0, 5584.0, 5525.0, 5447.0, 5640.0, 5548.0, 5718.0, 5620.0, 5356.0, 5427.0, 5352.0, 5538.0, 5674.0, 5664.0, 5266.0, 5671.0, 5533.0, 5431.0, 5517.0, 5641.0, 5380.0, 5611.0, 5673.0, 5415.0, 5298.0, 5383.0, 5273.0, 5570.0, 5338.0, 5391.0, 5387.0, 5270.0, 5596.0, 5497.0, 5479.0, 5271.0, 5361.0, 5339.0, 5598.0, 5581.0, 5429.0, 5585.0, 5704.0, 5615.0, 5669.0, 5549.0, 5367.0, 5509.0, 5523.0 (number of hits: 20)
19	5530	9	1	333	1	5494.0, 5427.0, 5715.0, 5568.0, 5357.0, 5459.0, 5322.0, 5394.0, 5364.0, 5373.0, 5492.0, 5543.0, 5251.0, 5720.0, 5315.0, 5466.0, 5382.0, 5499.0, 5293.0, 5329.0, 5583.0, 5695.0, 5495.0, 5698.0, 5714.0, 5603.0, 5670.0, 5458.0, 5422.0, 5379.0, 5261.0, 5625.0, 5306.0, 5441.0, 5534.0, 5615.0, 5257.0, 5645.0, 5409.0, 5417.0, 5488.0, 5362.0, 5559.0, 5439.0, 5471.0, 5274.0, 5576.0, 5694.0, 5395.0, 5626.0, 5599.0, 5478.0, 5365.0, 5326.0, 5323.0, 5288.0, 5461.0, 5582.0, 5298.0, 5275.0, 5408.0, 5454.0, 5555.0, 5310.0, 5472.0, 5255.0, 5262.0, 5345.0, 5497.0, 5515.0, 5533.0, 5535.0, 5286.0, 5363.0, 5637.0, 5512.0, 5372.0, 5399.0, 5349.0, 5377.0, 5290.0, 5520.0, 5304.0, 5686.0, 5416.0, 5437.0, 5624.0, 5482.0, 5469.0, 5606.0, 5523.0, 5321.0, 5536.0, 5318.0, 5486.0, 5660.0, 5508.0, 5361.0, 5600.0, 5553.0 (number of hits: 19)
20	5530	9	1	333	1	5561.0, 5420.0, 5662.0, 5396.0, 5377.0, 5497.0, 5636.0, 5300.0, 5268.0, 5445.0, 5264.0, 5555.0, 5691.0, 5386.0, 5373.0, 5404.0, 5472.0, 5281.0, 5326.0, 5414.0, 5519.0, 5443.0, 5290.0, 5372.0, 5506.0, 5549.0, 5712.0, 5602.0, 5548.0, 5358.0, 5521.0, 5674.0, 5364.0, 5475.0, 5270.0, 5653.0, 5711.0, 5417.0, 5410.0, 5494.0,

						5305.0, 5508.0, 5542.0, 5455.0, 5294.0, 5500.0, 5532.0, 5582.0, 5661.0, 5312.0, 5328.0, 5619.0, 5272.0, 5682.0, 5390.0, 5459.0, 5511.0, 5512.0, 5616.0, 5487.0, 5330.0, 5571.0, 5594.0, 5589.0, 5702.0, 5604.0, 5697.0, 5288.0, 5683.0, 5637.0, 5425.0, 5572.0, 5339.0, 5504.0, 5292.0, 5397.0, 5569.0, 5453.0, 5287.0, 5556.0, 5450.0, 5647.0, 5273.0, 5448.0, 5309.0, 5473.0, 5703.0, 5523.0, 5623.0, 5672.0, 5307.0, 5626.0, 5332.0, 5376.0, 5552.0, 5698.0, 5295.0, 5437.0, 5558.0, 5400.0 (number of hits: 21)
21	5530	9	1	333	1	5255.0, 5614.0, 5270.0, 5574.0, 5665.0, 5621.0, 5655.0, 5400.0, 5567.0, 5598.0, 5499.0, 5602.0, 5428.0, 5408.0, 5272.0, 5620.0, 5661.0, 5290.0, 5331.0, 5603.0, 5365.0, 5257.0, 5388.0, 5307.0, 5360.0, 5534.0, 5259.0, 5414.0, 5289.0, 5715.0, 5404.0, 5471.0, 5459.0, 5670.0, 5393.0, 5484.0, 5698.0, 5521.0, 5680.0, 5631.0, 5506.0, 5295.0, 5511.0, 5482.0, 5475.0, 5588.0, 5479.0, 5674.0, 5658.0, 5382.0, 5352.0, 5592.0, 5606.0, 5688.0, 5434.0, 5351.0, 5313.0, 5522.0, 5623.0, 5609.0, 5668.0, 5656.0, 5496.0, 5339.0, 5654.0, 5445.0, 5513.0, 5326.0, 5549.0, 5637.0, 5723.0, 5577.0, 5716.0, 5301.0, 5591.0, 5369.0, 5488.0, 5669.0, 5555.0, 5627.0, 5696.0, 5425.0, 5548.0, 5325.0, 5332.0, 5392.0, 5273.0, 5536.0, 5595.0, 5441.0, 5529.0, 5503.0, 5686.0, 5707.0, 5525.0, 5532.0, 5633.0, 5251.0, 5467.0, 5530.0 (number of hits: 18)
22	5530	9	1	333	1	5317.0, 5325.0, 5718.0, 5648.0, 5628.0, 5302.0, 5431.0, 5399.0, 5380.0, 5704.0, 5563.0, 5713.0, 5367.0, 5714.0, 5383.0, 5480.0, 5344.0, 5717.0, 5624.0, 5646.0, 5712.0, 5358.0, 5401.0, 5338.0, 5685.0, 5371.0, 5612.0, 5305.0, 5625.0, 5550.0, 5269.0, 5663.0, 5702.0, 5619.0, 5544.0, 5382.0, 5289.0, 5603.0, 5647.0, 5318.0, 5694.0, 5538.0, 5397.0, 5661.0, 5314.0, 5506.0, 5406.0, 5578.0, 5622.0, 5670.0, 5541.0, 5673.0, 5429.0, 5654.0, 5533.0, 5456.0, 5459.0, 5589.0, 5691.0, 5354.0, 5332.0, 5587.0, 5511.0, 5262.0, 5283.0, 5486.0, 5280.0, 5447.0, 5373.0, 5293.0, 5487.0, 5294.0, 5678.0, 5349.0, 5682.0, 5613.0, 5310.0, 5320.0, 5504.0, 5649.0, 5530.0, 5477.0, 5252.0, 5652.0, 5402.0, 5721.0, 5365.0, 5638.0, 5395.0, 5585.0, 5639.0, 5653.0, 5651.0, 5432.0, 5551.0, 5558.0, 5369.0, 5679.0, 5443.0, 5684.0 (number of hits: 12)
23	5530	9	1	333	1	5546.0, 5638.0, 5323.0, 5668.0, 5265.0, 5694.0, 5273.0, 5375.0, 5655.0, 5371.0, 5523.0, 5256.0, 5489.0, 5517.0, 5469.0, 5553.0, 5605.0, 5430.0, 5466.0, 5691.0,

						5660.0, 5569.0, 5705.0, 5451.0, 5591.0, 5532.0, 5494.0, 5662.0, 5428.0, 5514.0, 5666.0, 5331.0, 5550.0, 5716.0, 5338.0, 5413.0, 5326.0, 5250.0, 5378.0, 5661.0, 5402.0, 5487.0, 5650.0, 5289.0, 5646.0, 5439.0, 5327.0, 5433.0, 5426.0, 5503.0, 5424.0, 5386.0, 5301.0, 5472.0, 5499.0, 5284.0, 5443.0, 5524.0, 5486.0, 5461.0, 5678.0, 5607.0, 5687.0, 5408.0, 5342.0, 5404.0, 5588.0, 5622.0, 5606.0, 5708.0, 5298.0, 5436.0, 5513.0, 5580.0, 5693.0, 5711.0, 5684.0, 5350.0, 5518.0, 5598.0, 5715.0, 5686.0, 5481.0, 5664.0, 5374.0, 5579.0, 5549.0, 5399.0, 5642.0, 5531.0, 5483.0, 5592.0, 5442.0, 5281.0, 5405.0, 5389.0, 5407.0, 5709.0, 5478.0, 5359.0 (number of hits: 16)
24	5530	9	1	333	1	5510.0, 5296.0, 5584.0, 5689.0, 5447.0, 5385.0, 5299.0, 5603.0, 5458.0, 5369.0, 5309.0, 5557.0, 5665.0, 5691.0, 5454.0, 5666.0, 5374.0, 5253.0, 5411.0, 5576.0, 5505.0, 5320.0, 5276.0, 5419.0, 5274.0, 5616.0, 5372.0, 5344.0, 5630.0, 5640.0, 5436.0, 5539.0, 5361.0, 5379.0, 5529.0, 5517.0, 5334.0, 5471.0, 5532.0, 5627.0, 5362.0, 5613.0, 5432.0, 5703.0, 5534.0, 5313.0, 5473.0, 5330.0, 5622.0, 5469.0, 5424.0, 5695.0, 5552.0, 5513.0, 5515.0, 5485.0, 5333.0, 5520.0, 5507.0, 5655.0, 5406.0, 5591.0, 5389.0, 5396.0, 5438.0, 5521.0, 5321.0, 5678.0, 5633.0, 5533.0, 5530.0, 5329.0, 5683.0, 5474.0, 5417.0, 5654.0, 5465.0, 5484.0, 5357.0, 5259.0, 5626.0, 5395.0, 5637.0, 5306.0, 5470.0, 5368.0, 5376.0, 5439.0, 5370.0, 5451.0, 5673.0, 5611.0, 5295.0, 5625.0, 5701.0, 5682.0, 5543.0, 5681.0, 5423.0, 5482.0 (number of hits: 17)
25	5530	9	1	333	1	5597.0, 5434.0, 5616.0, 5566.0, 5635.0, 5279.0, 5517.0, 5669.0, 5513.0, 5328.0, 5492.0, 5711.0, 5612.0, 5645.0, 5541.0, 5311.0, 5327.0, 5508.0, 5643.0, 5415.0, 5647.0, 5587.0, 5255.0, 5310.0, 5663.0, 5687.0, 5391.0, 5448.0, 5601.0, 5699.0, 5308.0, 5575.0, 5522.0, 5661.0, 5626.0, 5379.0, 5518.0, 5413.0, 5617.0, 5504.0, 5553.0, 5685.0, 5284.0, 5628.0, 5253.0, 5682.0, 5280.0, 5686.0, 5722.0, 5301.0, 5516.0, 5406.0, 5694.0, 5425.0, 5672.0, 5714.0, 5543.0, 5593.0, 5631.0, 5335.0, 5486.0, 5521.0, 5283.0, 5600.0, 5632.0, 5297.0, 5609.0, 5443.0, 5551.0, 5325.0, 5362.0, 5302.0, 5578.0, 5269.0, 5585.0, 5330.0, 5268.0, 5514.0, 5666.0, 5680.0, 5380.0, 5350.0, 5681.0, 5369.0, 5539.0, 5441.0, 5299.0, 5704.0, 5656.0, 5257.0, 5358.0, 5333.0, 5696.0, 5423.0, 5623.0, 5288.0, 5387.0, 5507.0, 5368.0, 5606.0 (number of hits: 17)

26	5530	9	1	333	1	5292.0, 5647.0, 5510.0, 5660.0, 5587.0, 5412.0, 5411.0, 5450.0, 5332.0, 5646.0, 5307.0, 5260.0, 5370.0, 5605.0, 5459.0, 5670.0, 5520.0, 5630.0, 5484.0, 5718.0, 5509.0, 5323.0, 5320.0, 5408.0, 5589.0, 5460.0, 5401.0, 5256.0, 5629.0, 5499.0, 5529.0, 5671.0, 5355.0, 5502.0, 5668.0, 5347.0, 5531.0, 5316.0, 5623.0, 5708.0, 5341.0, 5272.0, 5359.0, 5691.0, 5486.0, 5677.0, 5560.0, 5485.0, 5340.0, 5576.0, 5521.0, 5350.0, 5365.0, 5432.0, 5434.0, 5385.0, 5276.0, 5570.0, 5698.0, 5684.0, 5546.0, 5474.0, 5602.0, 5634.0, 5720.0, 5547.0, 5430.0, 5296.0, 5416.0, 5338.0, 5709.0, 5377.0, 5607.0, 5472.0, 5723.0, 5311.0, 5339.0, 5268.0, 5352.0, 5461.0, 5675.0, 5679.0, 5542.0, 5290.0, 5435.0, 5489.0, 5558.0, 5363.0, 5681.0, 5581.0, 5422.0, 5366.0, 5442.0, 5586.0, 5561.0, 5614.0, 5513.0, 5374.0, 5532.0, 5373.0 (number of hits: 16)
27	5530	9	1	333	1	5481.0, 5458.0, 5303.0, 5442.0, 5701.0, 5450.0, 5503.0, 5627.0, 5380.0, 5341.0, 5540.0, 5589.0, 5694.0, 5711.0, 5657.0, 5316.0, 5291.0, 5674.0, 5489.0, 5578.0, 5688.0, 5519.0, 5707.0, 5670.0, 5429.0, 5370.0, 5593.0, 5598.0, 5277.0, 5313.0, 5292.0, 5595.0, 5279.0, 5413.0, 5500.0, 5508.0, 5486.0, 5477.0, 5681.0, 5449.0, 5312.0, 5624.0, 5460.0, 5653.0, 5621.0, 5631.0, 5322.0, 5259.0, 5478.0, 5302.0, 5362.0, 5685.0, 5423.0, 5461.0, 5375.0, 5435.0, 5314.0, 5596.0, 5615.0, 5364.0, 5390.0, 5361.0, 5496.0, 5543.0, 5630.0, 5565.0, 5514.0, 5286.0, 5497.0, 5339.0, 5319.0, 5495.0, 5700.0, 5671.0, 5673.0, 5517.0, 5456.0, 5665.0, 5586.0, 5672.0, 5704.0, 5281.0, 5501.0, 5591.0, 5491.0, 5527.0, 5474.0, 5446.0, 5667.0, 5634.0, 5447.0, 5437.0, 5455.0, 5335.0, 5567.0, 5709.0, 5290.0, 5317.0, 5635.0, 5526.0 (number of hits: 17)
28	5530	9	1	333	1	5614.0, 5527.0, 5408.0, 5625.0, 5609.0, 5676.0, 5412.0, 5520.0, 5288.0, 5666.0, 5468.0, 5594.0, 5370.0, 5627.0, 5470.0, 5720.0, 5624.0, 5686.0, 5598.0, 5273.0, 5635.0, 5418.0, 5425.0, 5658.0, 5384.0, 5386.0, 5700.0, 5714.0, 5572.0, 5711.0, 5361.0, 5326.0, 5374.0, 5629.0, 5554.0, 5355.0, 5702.0, 5436.0, 5639.0, 5438.0, 5553.0, 5522.0, 5457.0, 5717.0, 5623.0, 5563.0, 5261.0, 5300.0, 5681.0, 5481.0, 5282.0, 5394.0, 5298.0, 5508.0, 5580.0, 5610.0, 5364.0, 5677.0, 5544.0, 5541.0, 5353.0, 5616.0, 5496.0, 5371.0, 5354.0, 5297.0, 5316.0, 5267.0, 5257.0, 5387.0, 5685.0, 5440.0, 5671.0, 5266.0, 5511.0, 5631.0, 5565.0, 5329.0, 5612.0, 5583.0, 5393.0, 5347.0, 5638.0, 5542.0, 5562.0,

						5661.0, 5319.0, 5607.0, 5472.0, 5290.0, 5264.0, 5689.0, 5568.0, 5342.0, 5507.0, 5516.0, 5397.0, 5339.0, 5380.0, 5312.0 (number of hits: 17)
29	5530	9	1	333	1	5706.0, 5483.0, 5278.0, 5534.0, 5379.0, 5552.0, 5560.0, 5522.0, 5370.0, 5634.0, 5434.0, 5562.0, 5462.0, 5295.0, 5555.0, 5467.0, 5460.0, 5596.0, 5357.0, 5508.0, 5708.0, 5371.0, 5308.0, 5502.0, 5685.0, 5565.0, 5715.0, 5574.0, 5307.0, 5681.0, 5340.0, 5273.0, 5282.0, 5661.0, 5405.0, 5355.0, 5539.0, 5598.0, 5504.0, 5532.0, 5695.0, 5622.0, 5558.0, 5523.0, 5531.0, 5700.0, 5356.0, 5446.0, 5477.0, 5296.0, 5352.0, 5662.0, 5617.0, 5549.0, 5495.0, 5515.0, 5442.0, 5251.0, 5457.0, 5302.0, 5650.0, 5378.0, 5572.0, 5646.0, 5459.0, 5338.0, 5611.0, 5603.0, 5290.0, 5429.0, 5705.0, 5279.0, 5320.0, 5304.0, 5501.0, 5569.0, 5643.0, 5683.0, 5431.0, 5276.0, 5513.0, 5420.0, 5403.0, 5503.0, 5718.0, 5669.0, 5332.0, 5389.0, 5299.0, 5297.0, 5566.0, 5697.0, 5624.0, 5417.0, 5713.0, 5665.0, 5710.0, 5428.0, 5626.0, 5635.0 (number of hits: 23)
30	5530	9	1	333	1	5512.0, 5645.0, 5507.0, 5366.0, 5258.0, 5458.0, 5698.0, 5451.0, 5563.0, 5302.0, 5685.0, 5261.0, 5635.0, 5312.0, 5402.0, 5271.0, 5579.0, 5619.0, 5276.0, 5576.0, 5721.0, 5492.0, 5361.0, 5433.0, 5467.0, 5703.0, 5646.0, 5343.0, 5528.0, 5405.0, 5283.0, 5566.0, 5331.0, 5298.0, 5263.0, 5505.0, 5277.0, 5663.0, 5501.0, 5349.0, 5375.0, 5553.0, 5523.0, 5409.0, 5612.0, 5454.0, 5547.0, 5355.0, 5641.0, 5325.0, 5680.0, 5509.0, 5351.0, 5455.0, 5554.0, 5284.0, 5545.0, 5675.0, 5422.0, 5311.0, 5414.0, 5356.0, 5297.0, 5573.0, 5413.0, 5457.0, 5511.0, 5288.0, 5497.0, 5514.0, 5482.0, 5270.0, 5272.0, 5266.0, 5335.0, 5548.0, 5706.0, 5466.0, 5629.0, 5723.0, 5379.0, 5598.0, 5673.0, 5527.0, 5651.0, 5700.0, 5443.0, 5624.0, 5468.0, 5544.0, 5537.0, 5502.0, 5434.0, 5387.0, 5552.0, 5299.0, 5586.0, 5540.0, 5668.0, 5640.0 (number of hits: 24)

10 Annex A (Normative) - Test Setup Photographs

Please refer to R1709086-DFS-Photo Report

11 Annex B (Normative) - EUT Photographs

Please refer to R1709086-DFS-Photo Report

12 Annex C (Informative) - Declaration of Similarity

FORTINET

Declaration of Similarity

January 31, 2017

We *Fortinet, Inc.* hereby declare that products in the table below are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics except for the following hardware design changes:

	FAP-221E	FAP-223E	FAP-S221E	FAP-S223E
Antenna Type	Internal	External	Internal	External
RF chipset	Qualcomm IPQ4018	Qualcomm IPQ4018	Qualcomm IPQ4029	Qualcomm IPQ4029
RJ45	1x GbE RJ45 support PoE power input	1x GbE RJ45 support PoE power input	2x GbE RJ45 support PoE power input	2x GbE RJ45 support PoE power input
USB 2.0	N/A	N/A	1	1
Enclosure size	round	square	round	square
Enclosure material	Top :Plastic Bottom: Die casting.	Top :Plastic Bottom: Die casting.	Top/bottom: Plastic	Top/bottom: Plastic

Product Models covered are:

FORTIAP-221Exxxxxx, FAP-221Exxxxxx
FORTIAP-223Exxxxxx, FAP-223Exxxxxx
FORTIAP-S221Exxxxxx, FAP-S221Exxxxxx
FORTIAP-S223Exxxxxx, FAP-S223Exxxxxx

(where "x" can be "0-9", or "A-Z", or "-", or blank for marketing purposes or software changes only and no Safety or EMC related changes)

Please contact me should there be need for any additional clarification or information.

Sincerely,

Andrew Ji
Fortinet, Inc.
Director

899 Kifer Road, Sunnyvale, CA 94086
Tel: 408.235.7700 Fax: 408.235.7737

13 Annex D (Informative) - A2LA Electrical Testing Certificate

Accredited Laboratory

A2LA has accredited

BAY AREA COMPLIANCE LABORATORIES CORP.

Sunnyvale, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA *R222 - Specific Requirements - EPA ENERGY STAR Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 30th day of August 2016.

Senior Director of Quality & Communications
For the Accreditation Council
Certificate Number 3297.02
Valid to September 30, 2018

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

---END OF REPORT ---