



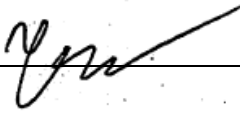
FCC PART 15.407  
DYNAMIC FREQUENCY SELECTION  
TEST REPORT

For

**Cisco System, Inc.**

125 W Tasman Drive  
San Jose, CA 94134, USA

**FCC ID: LDKEDAC92157**  
**IC: 2461N-EDAC92157**

|                                                                                                                                      |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Report Type:</b><br>Original Report                                                                                               | <b>Product Type:</b><br>Cisco 802.11ax Access Point                                   |
| <b>Prepared By</b><br>Tri Pham<br>Test Engineer                                                                                      |  |
| <b>Report Number</b><br>R1909242-DFS                                                                                                 |                                                                                       |
| <b>Report Date</b><br>2019-10-14                                                                                                     |                                                                                       |
| <b>Reviewed By</b><br>Frank Wang<br>RF Lead                                                                                          |  |
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\* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "\*" 08/15

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**DOCUMENT REVISION HISTORY**

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|---------------|-------------------------|------------------|
| 0               | R1909242-DFS  | Original Report         | 2019-10-14       |

## 1 General Description

### 1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Cisco Systems Inc.*, and their product model: *C9120AXE-B (USA)*, *C1920AXE-A (Canada)*, as referred to as EUT in this report. The product is an 802.11ax Dual Band Access Point.

### 1.2 Mechanical Description of EUT

| Length<br>(mm) | Width<br>(mm) | Height<br>(mm) | Weight<br>(g) |
|----------------|---------------|----------------|---------------|
| 180            | 55            | 235            | 1150          |

### 1.3 Objective

This report is prepared on behalf of *Cisco System Inc.* in accordance with FCC CFR47 §15.407 (h), 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)

FCC 15.407 Reports

### 1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

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, 3<sup>rd</sup>-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2005 by A2LA (Test Laboratory Accreditation Certificate Number 3279.02),** 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 3279.03)** 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 3279.01) 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: (Innovation, Science and Economic development Canada - ISED) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China – Taiwan):
  - o BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
  - o NCC (National Communications Commission) APEC Tel MRA -Phase I;

- European Union:
  - o EMC Directive 2014/30/EU US-EU EMC & Telecom MRA CAB (NB)
  - o Radio Equipment (RE) Directive 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
  - o Low Voltage Directive (LVD) 2014/35/EU
- 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 Media Development Authority - IMDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI - Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
  - o ENERGY STAR Recognized Test Laboratory – US EPA
  - o Telecommunications Certification Body (TCB) – US FCC;
  - o Nationally Recognized Test Laboratory (NRTL) – US OSHA

Vietnam: APEC Tel MRA -Phase I;

## 2 EUT Test Configuration

### 2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

### 2.2 EUT Exercise Software

The test firmware used was CRT and test commands, provided by *Cisco System Inc.*, the software is compliant with the standard requirements being tested against.

### 2.3 Equipment Modifications

N/A

### 2.4 Local Support Equipment

| Manufacturer | Description | Model           | Serial Number    |
|--------------|-------------|-----------------|------------------|
| Sony         | Laptop      | Vaio SVE151D11L | 54269366 0002588 |
| ASUS         | Laptop      | FX504G          | J6NRCX037440249  |

### 2.5 Interface Ports and Cables

| Cable Description | Length | To            | From   |
|-------------------|--------|---------------|--------|
| Power cable       | 2 m    | Power Adapter | EUT    |
| Ethernet cable    | 2 m    | EUT           | Laptop |

### 3 Summary of Test Results

The following result table represents the list of measurements required under the FCC CFR47 §15.407 (h), 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) 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                                         |
| <b>Note:</b> 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 $\geq$ 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                      |
| <p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                              |

**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 <i>See Note 1.</i>                                                                                 |
| Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. <i>See Notes 1 and 2.</i> |
| U-NII Detection Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Minimum 100% of the UNII 99% transmission power bandwidth. <i>See Note 3.</i>                                 |
| <p><b>Note 1:</b> 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.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note 3:</b> 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.</p> |                                                                                                               |

**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<br>Test B: 15 unique PRI values randomly selected within the range of 518-3066 $\mu$ sec, with a minimum increment of 1 $\mu$ sec, excluding PRI values selected in Test A | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 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                      |
| <b>Note 1:</b> 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                       |

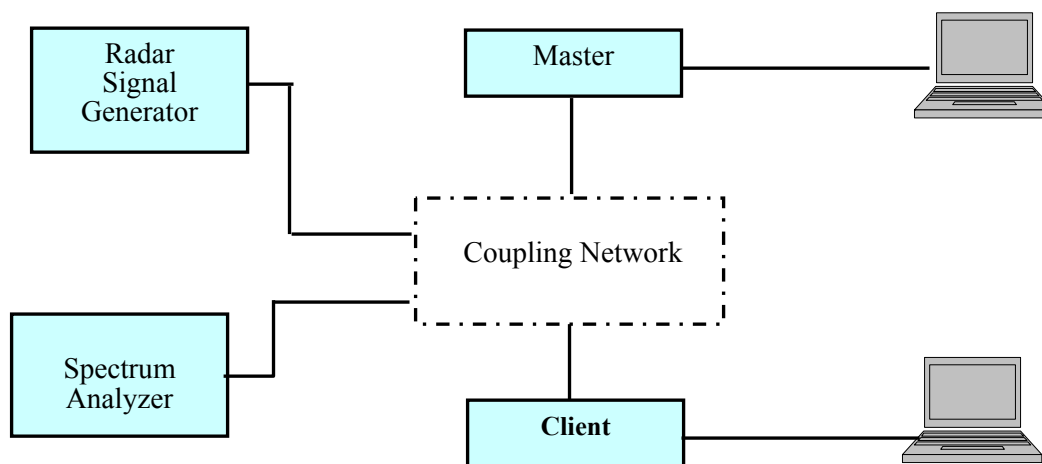
**Table 7: Frequency Hopping Radar Test Signal**

| 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                       |

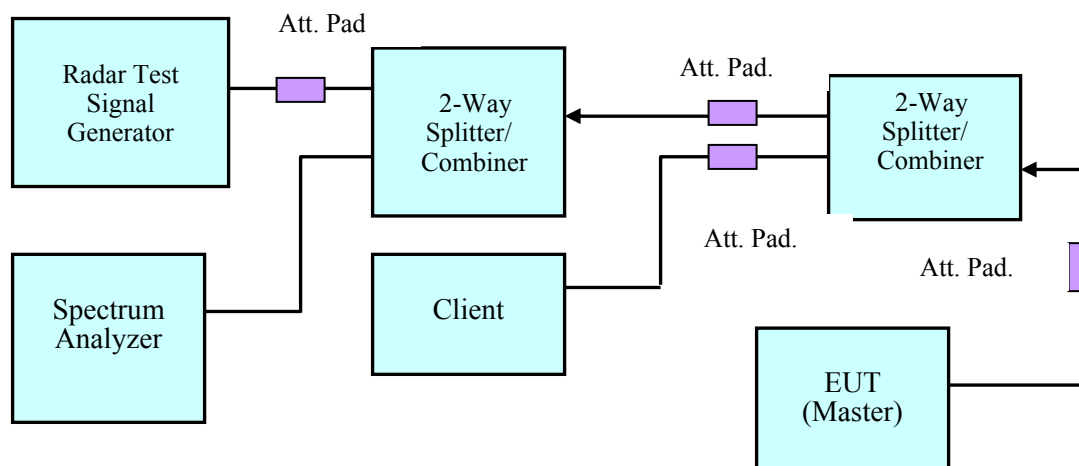
## 4.2 DFS Measurement System

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

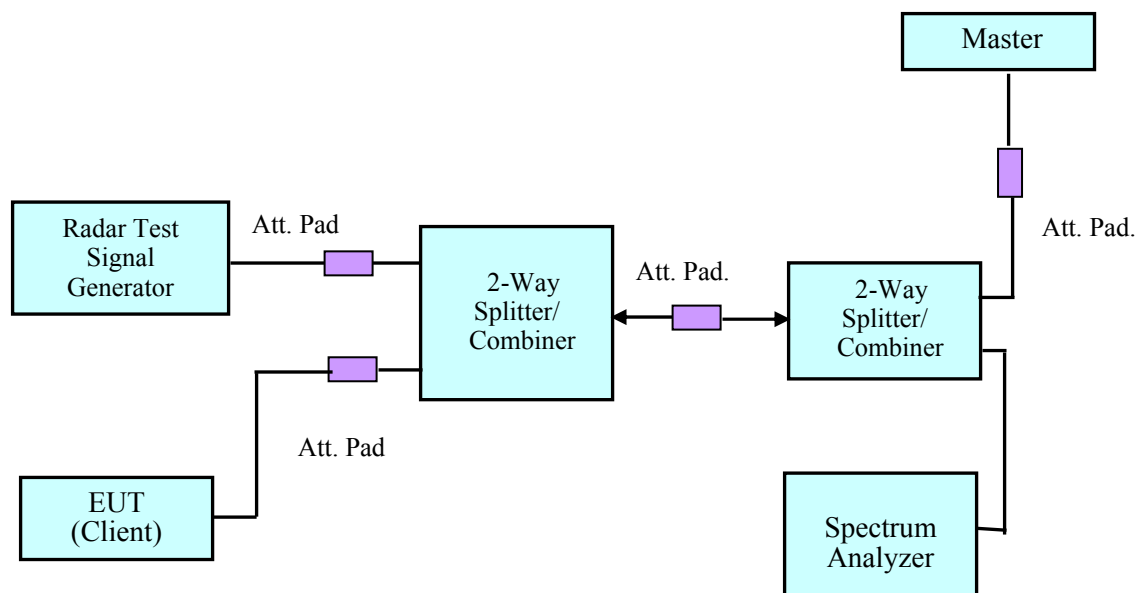
## 4.3 System Block Diagram



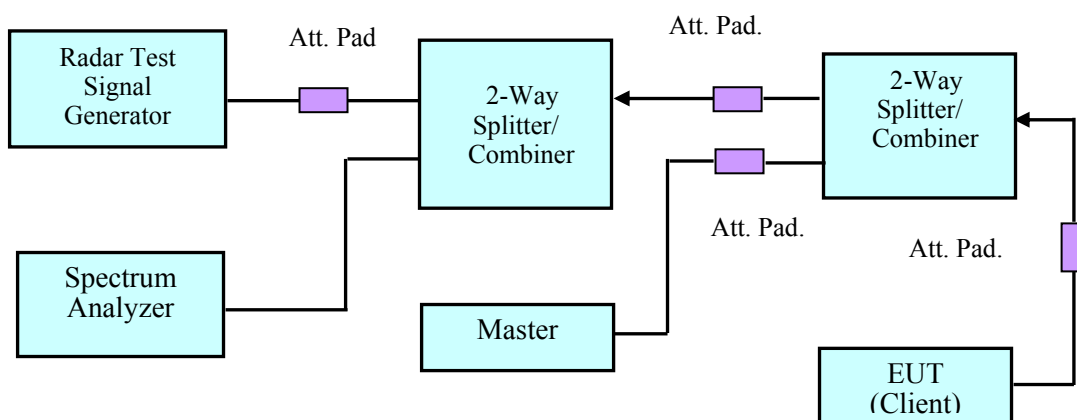
## 4.4 Conducted Method



**Setup for Master with injection at the Master**

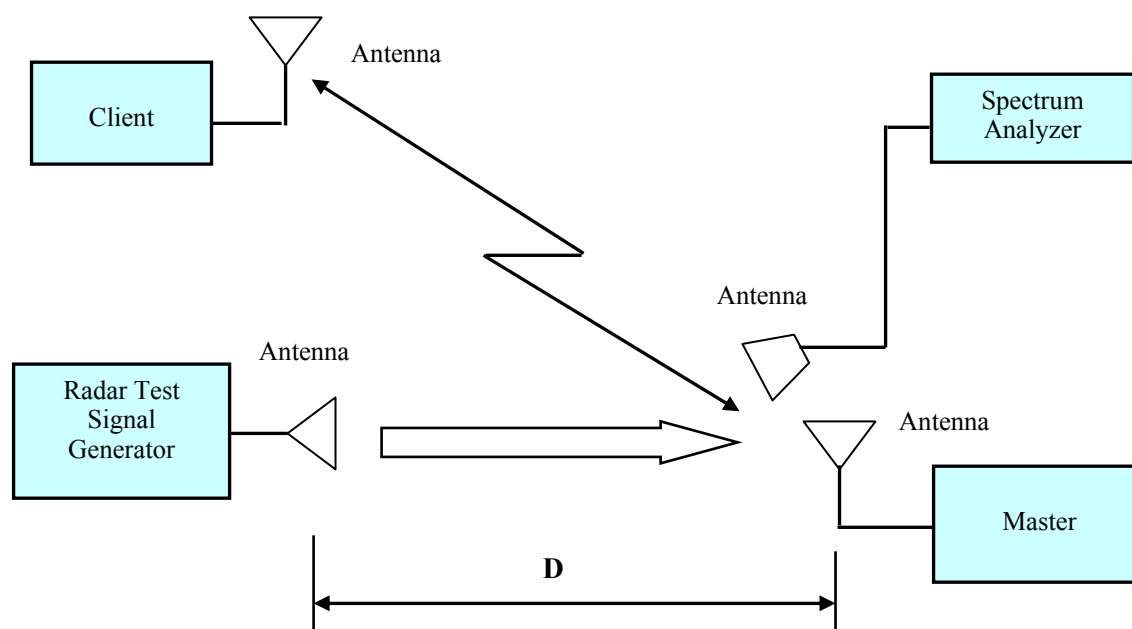


**Setup for Client with injection at the Master**



**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

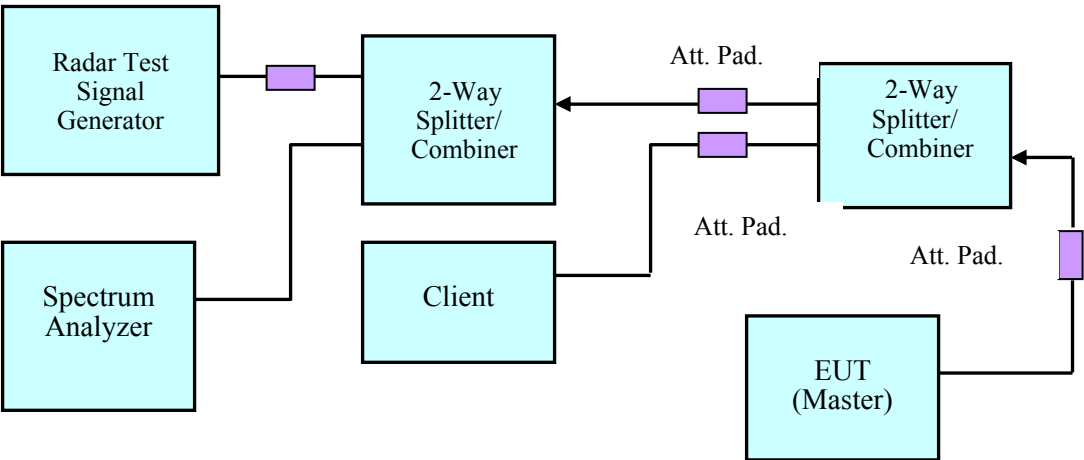
| Radio | Antenna Type | Antenna Gain (dBi)<br>@ 5 GHz |
|-------|--------------|-------------------------------|
| 5 GHz | External     | 4                             |

### 5.3 Test Equipment List and Details

| Manufacturer         | Equipment Description        | Model Number | S/N        | Calibration Date | Calibration Interval |
|----------------------|------------------------------|--------------|------------|------------------|----------------------|
| National Instruments | NI PXI-1042 8-Slot chassis   | PXI-1042     | V08X01EE1  | N/A              | N/A                  |
| National Instruments | Arbitrary Waveform Generator | PXI-5421     | N/A        | N/A              | N/A                  |
| National Instruments | RF Upconverter               | PXI-5610     | N/A        | N/A              | N/A                  |
| ASCOR                | Upconverter                  | AS-7206      | N/A        | N/A              | N/A                  |
| Agilent              | Analyzer, Spectrum           | E4440A       | US45303156 | 2019-03-04       | 1 year               |
| A. H. Systems        | Antenna, Horn                | SAS-200/571  | 261        | 2018-02-13       | 2 years              |
| EMCO                 | Antenna, Horn                | 3115         | 9511-4627  | 2018-03-28       | 2 years              |
| Mini-Circuits        | Splitter/Combiner            | ZFSC-2-9G+   | 0349       | N/A              | N/A                  |
| Mini-Circuits        | Splitter/Combiner            | ZFRSC-183-S+ | N/A        | N/A              | N/A                  |
| Mini-Circuits        | Splitter/Combiner            | ZFSC-2-10G   | 15542      | N/A              | N/A                  |
| Mini-Circuits        | Splitter/Combiner            | ZFSC-3-42    | N/A        | N/A              | N/A                  |
| Trescal              | Splitter/Combiner            | CIS-55365    | N/A        | 2018-05-03       | 1 year               |
| Trescal              | Splitter/Combiner            | CIS-55368    | N/A        | 2018-04-11       | 1 year               |
| Hewlett Packard      | Attenuator                   | 8495B        | N/A        | N/A              | N/A                  |
| Hewlett Packard      | Attenuator                   | 8404B        | 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



Conducted Calibration Setup Block Diagram

5.5 Test Environmental Conditions

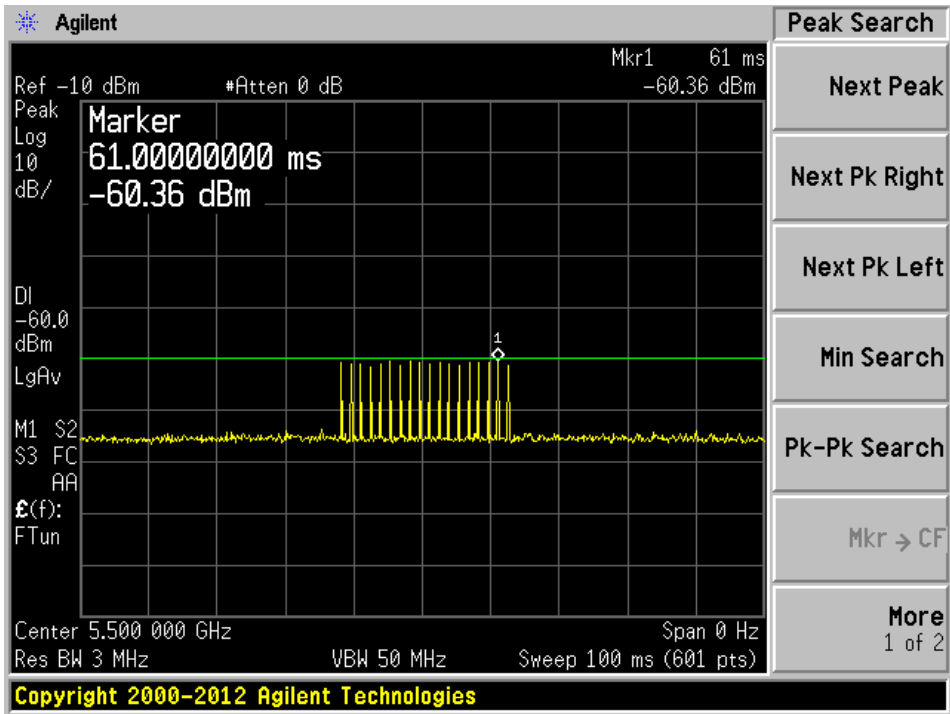
|                    |           |
|--------------------|-----------|
| Temperature:       | 22-25° C  |
| Relative Humidity: | 45-48 %   |
| ATM Pressure:      | 102.1 kPa |

Testing was performed by Tri Pham on 2019-09-28 to 2019-10- in the DFS Test Site.

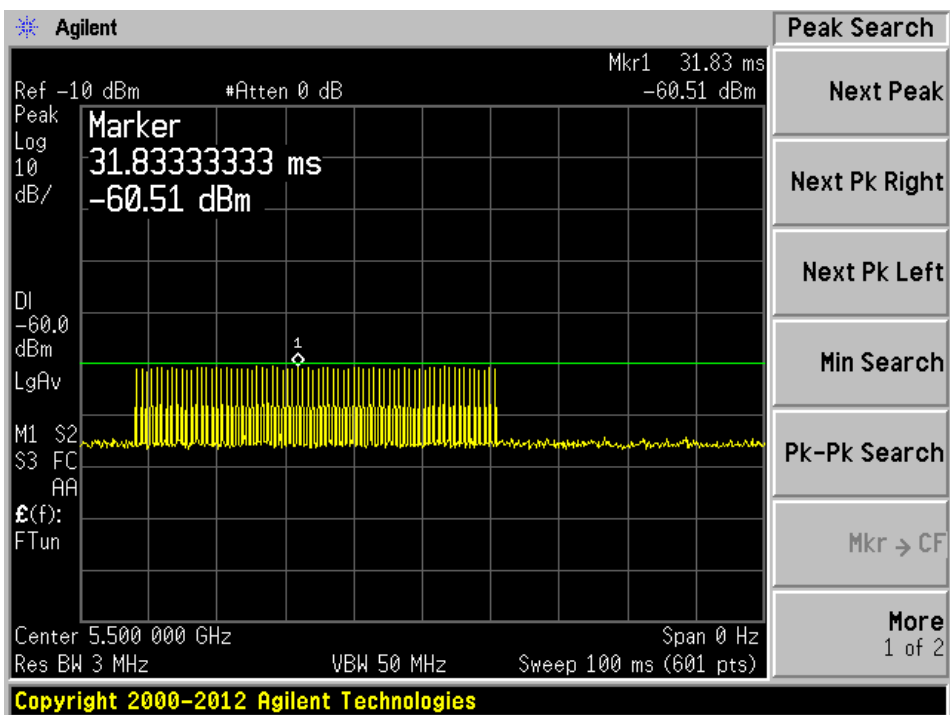
Plots of Radar Waveforms

5500 MHz

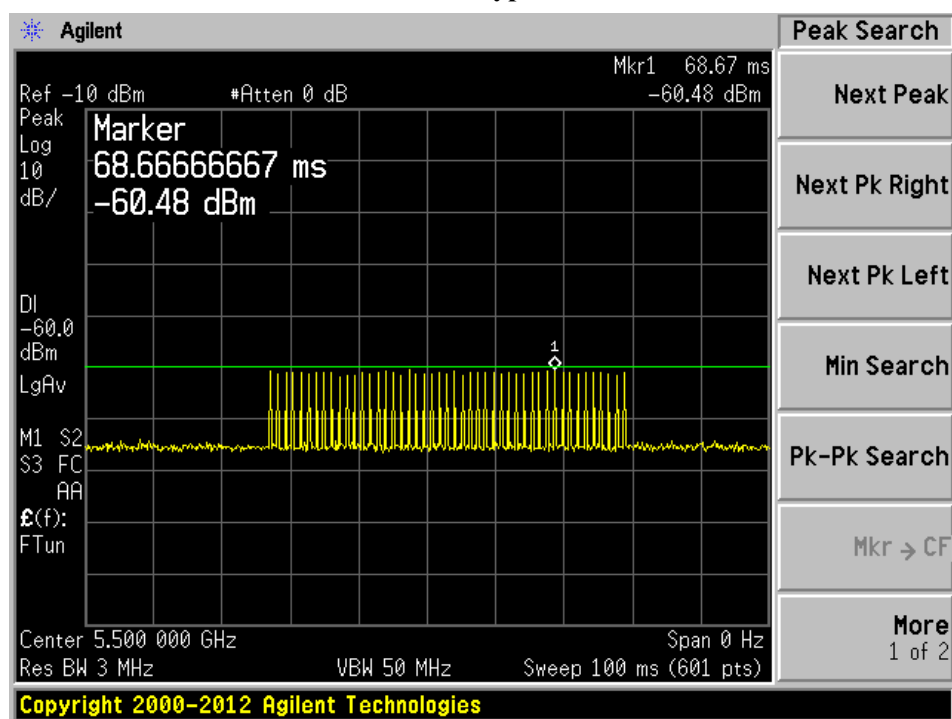
Radar Type 0



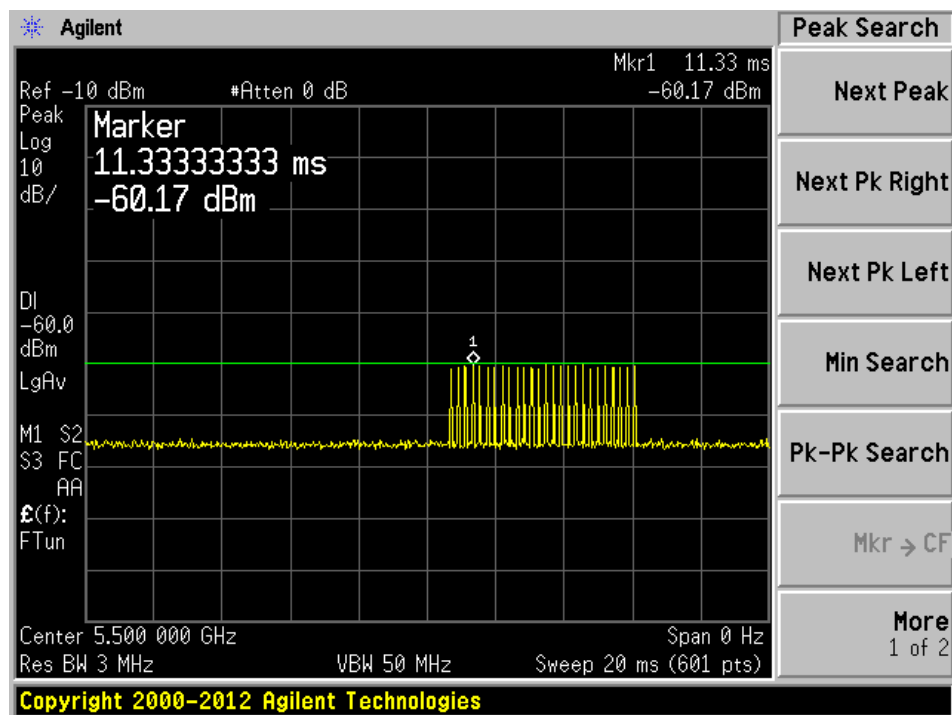
Radar Type 1A



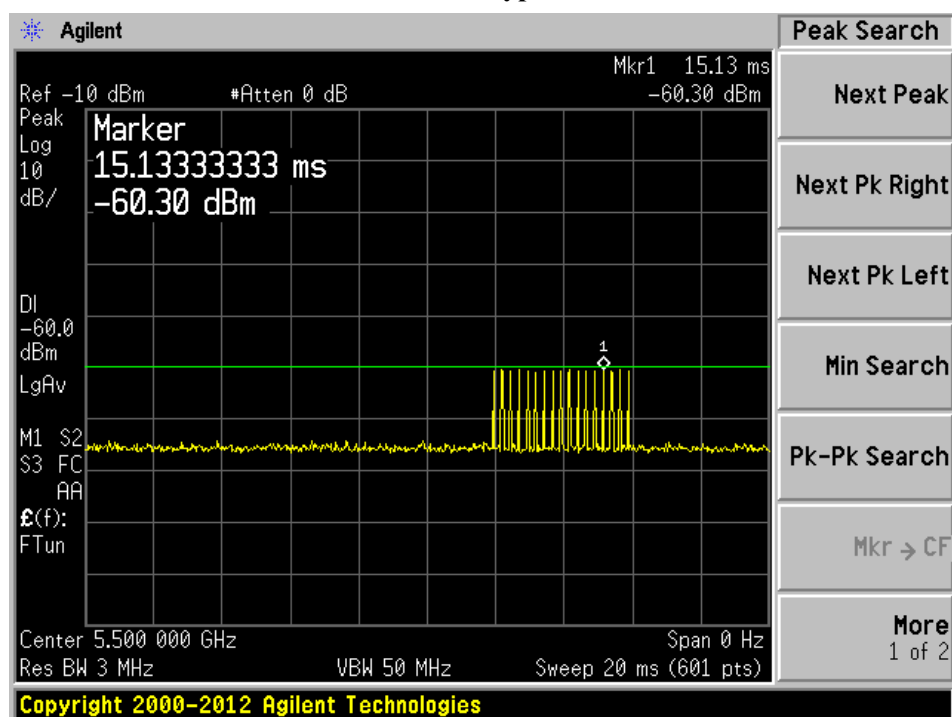
## Radar Type 1B



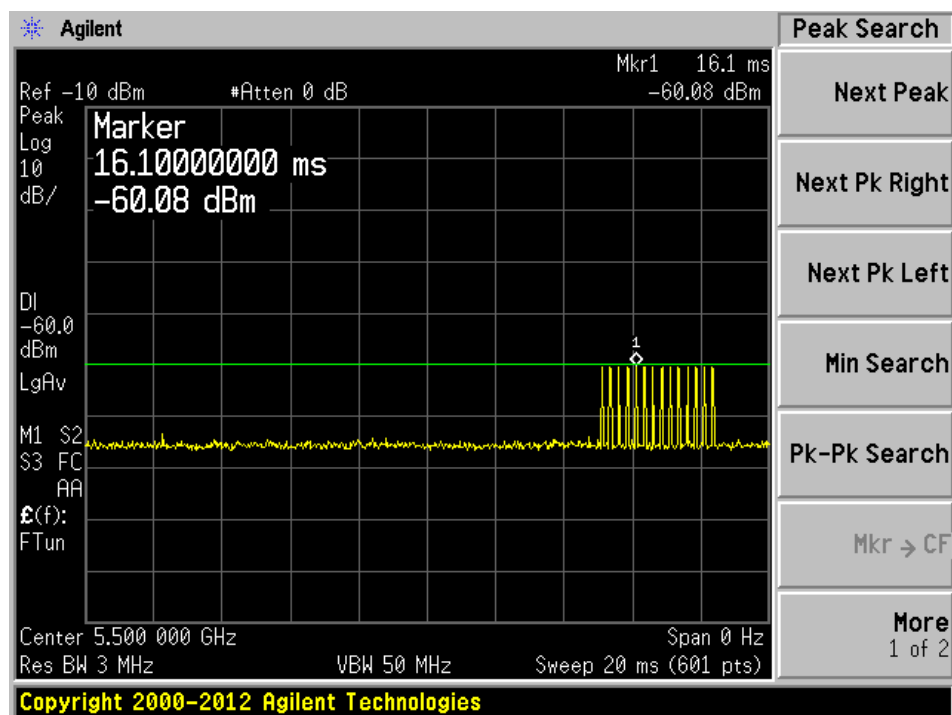
## Radar Type 2



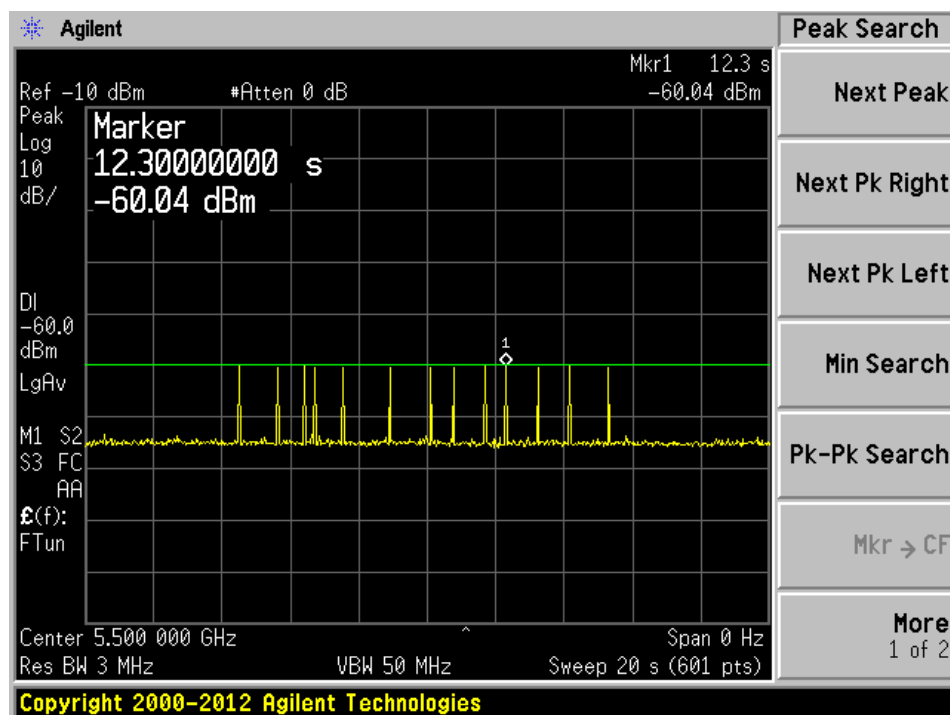
## Radar Type 3



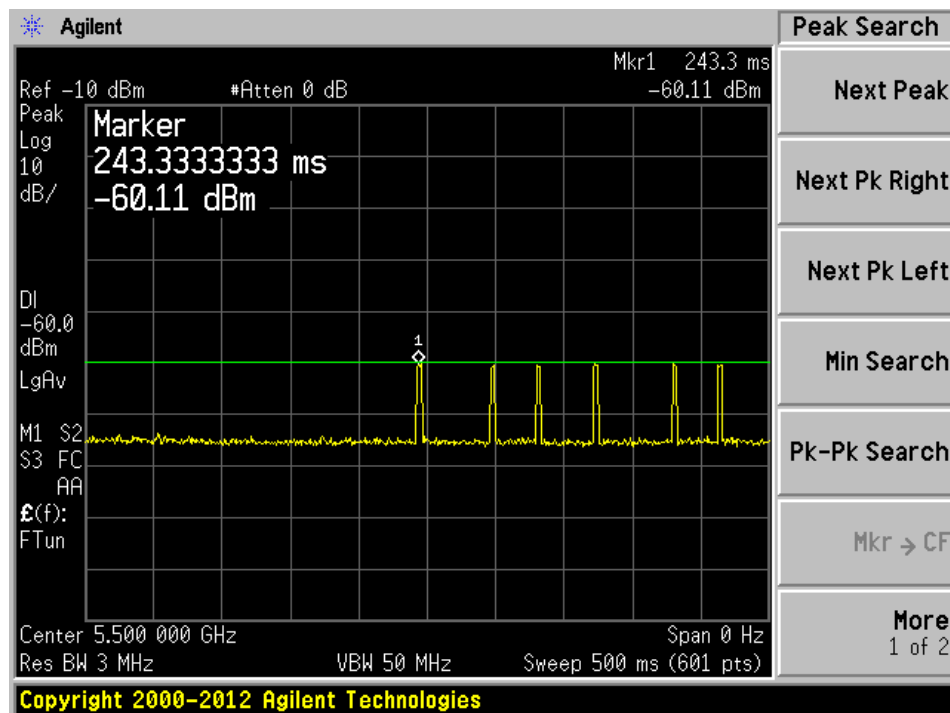
## Radar Type 4



## Radar Type 5

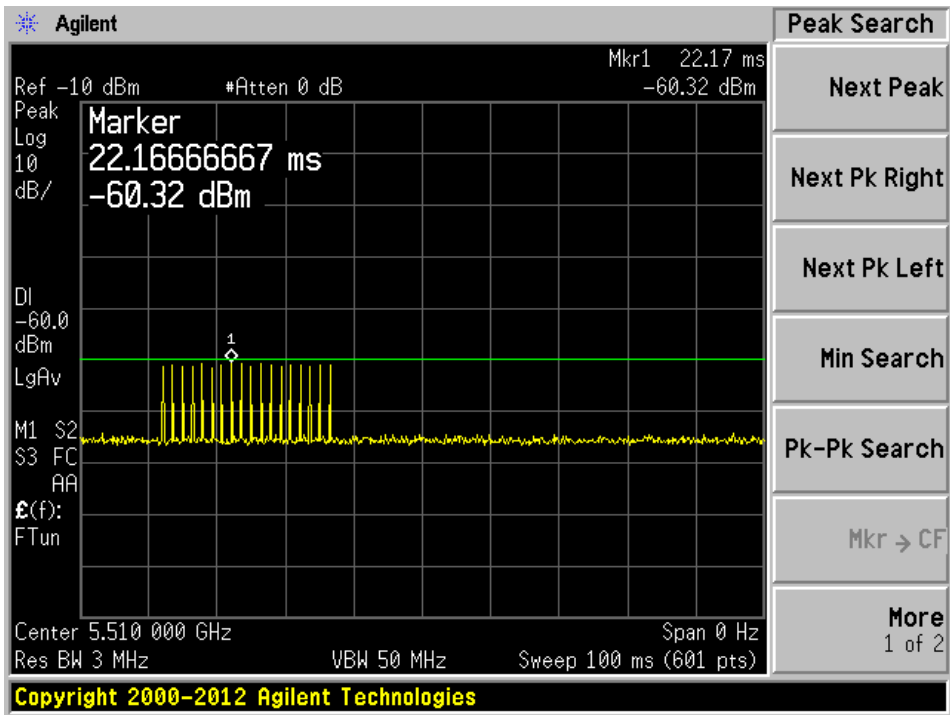


## Radar Type 6

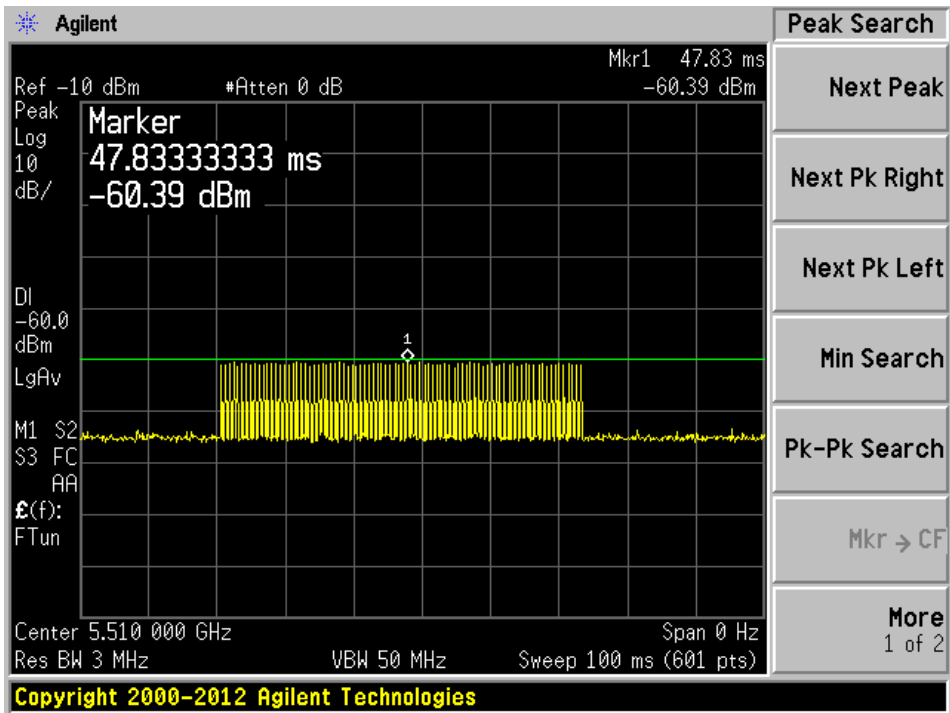


5510 MHz

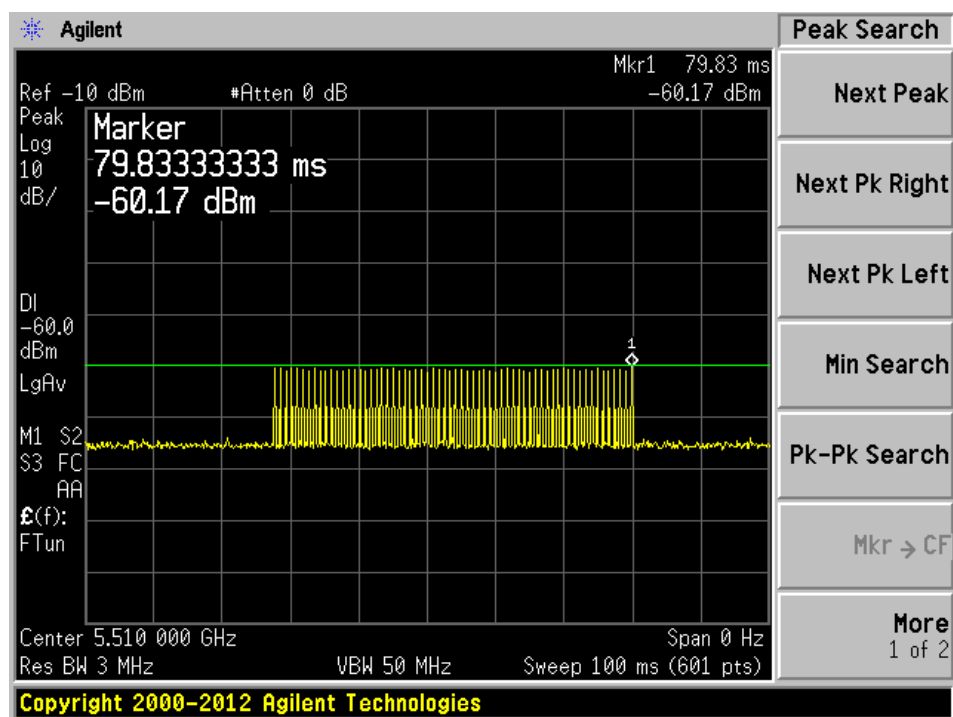
Radar Type 0



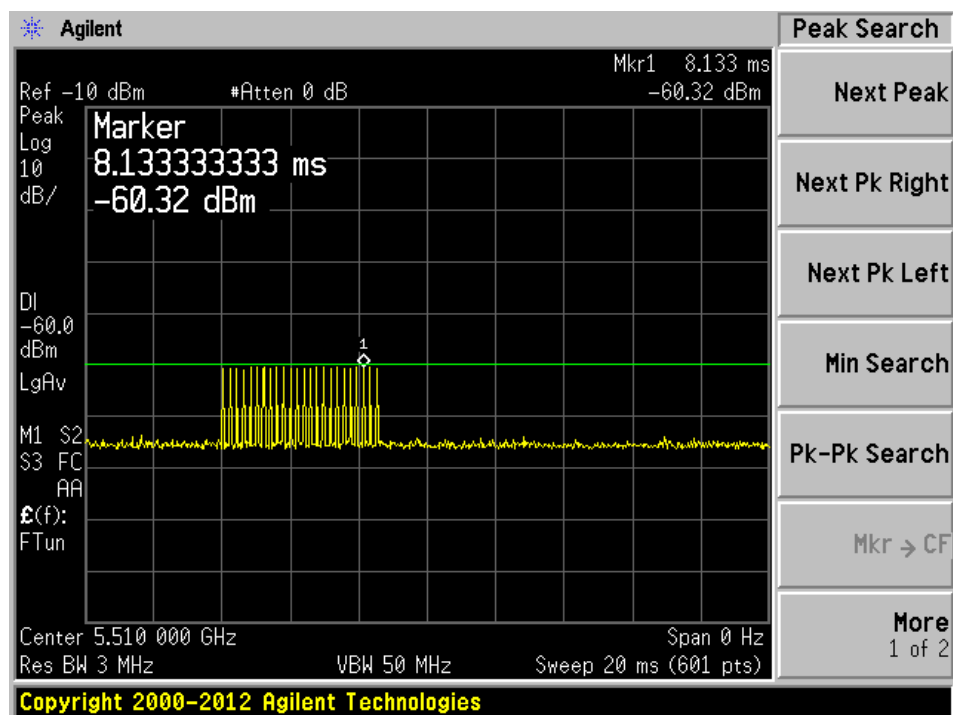
Radar Type 1A



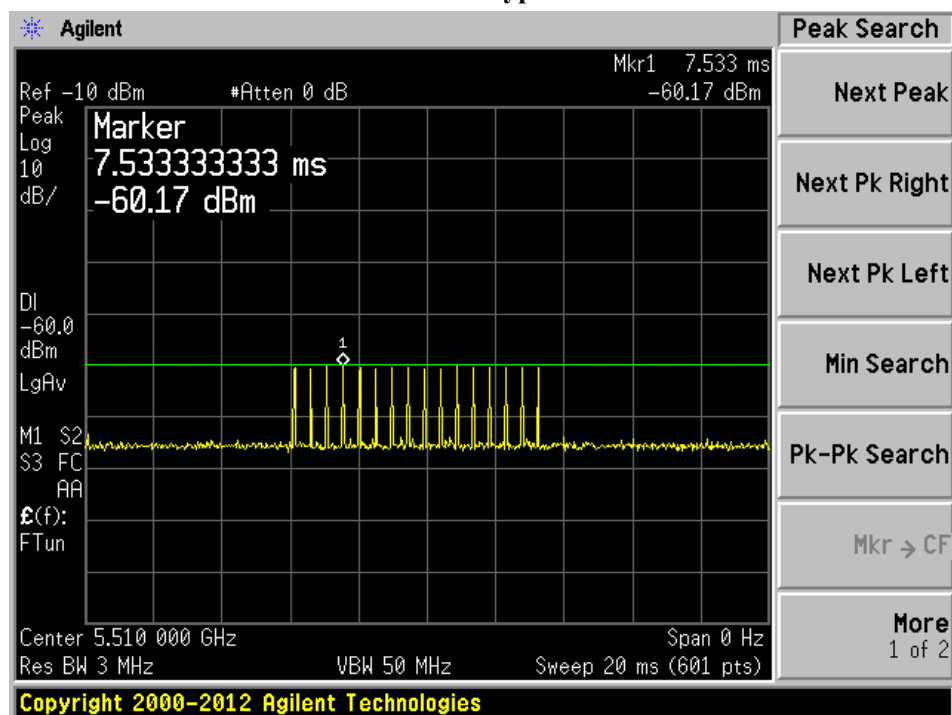
## Radar Type 1B



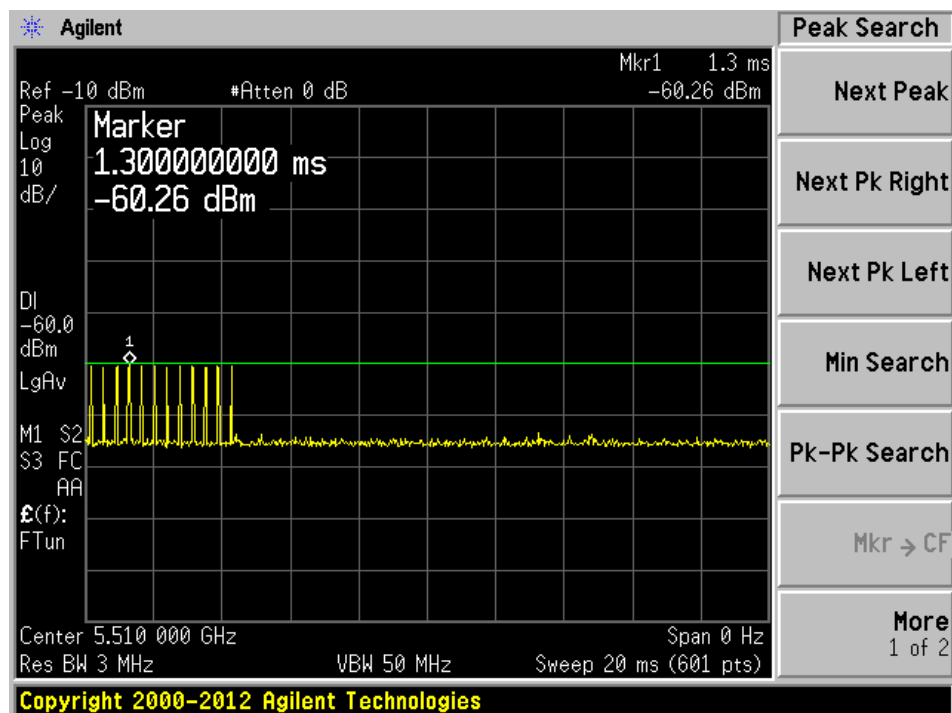
## Radar Type 2



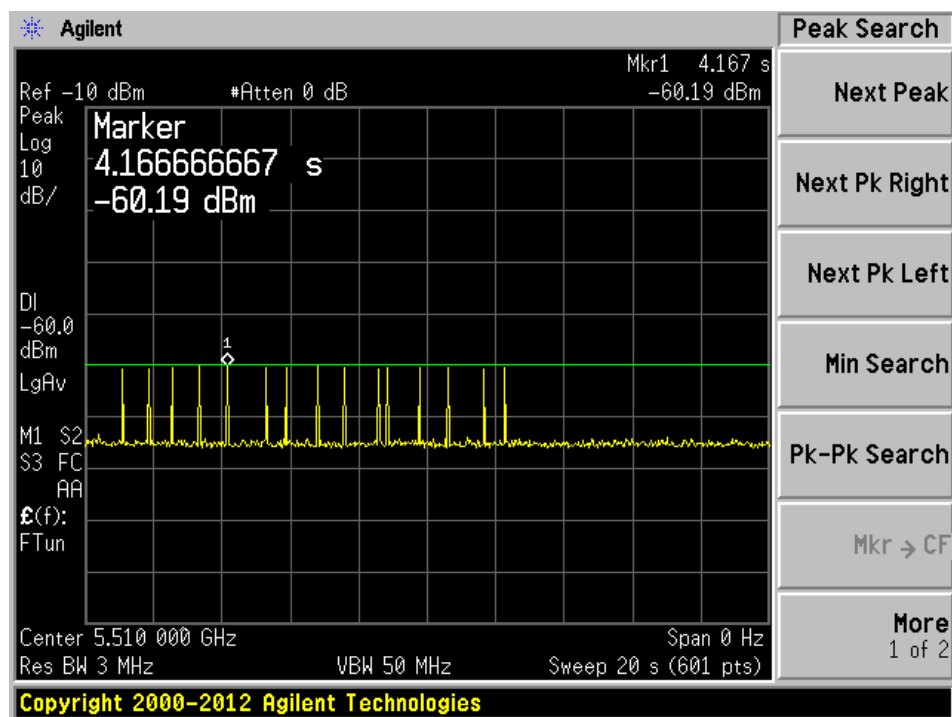
### Radar Type 3



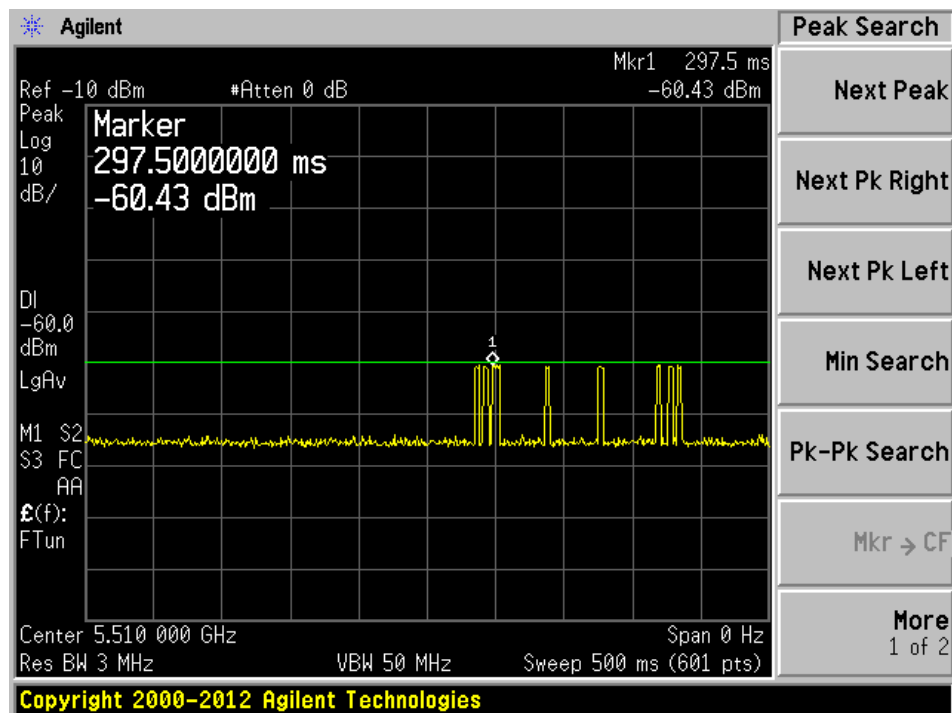
## Radar Type 4



## Radar Type 5

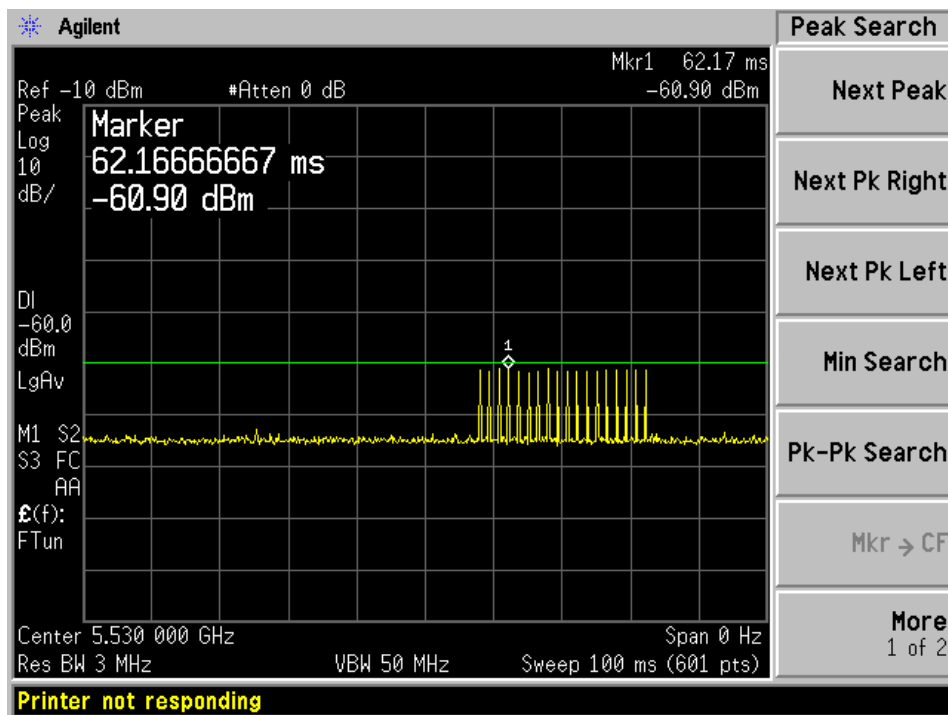


## Radar Type 6

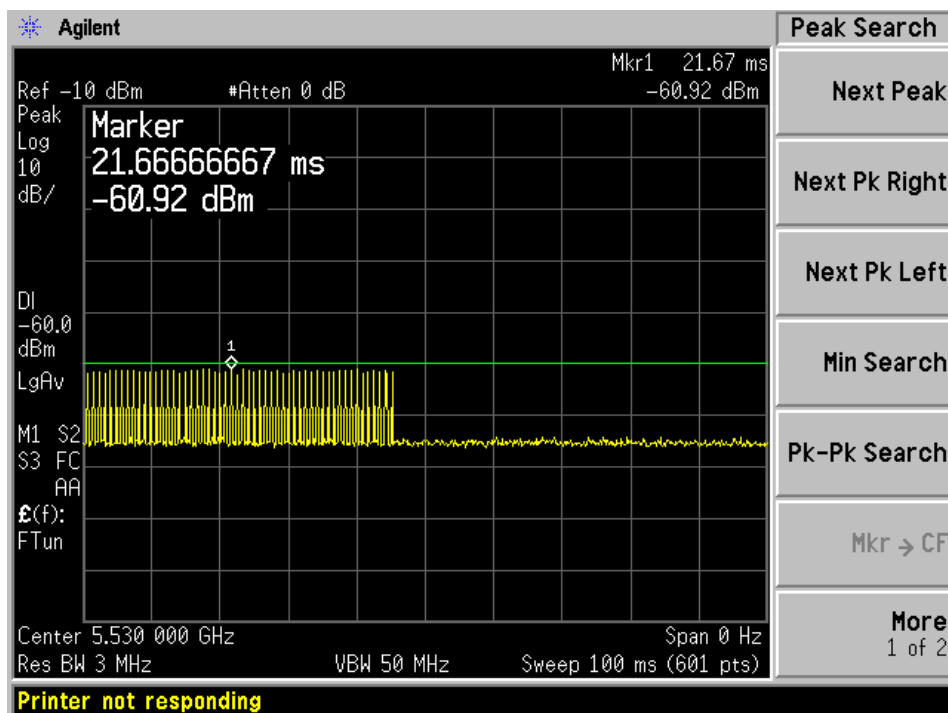


5530 MHz

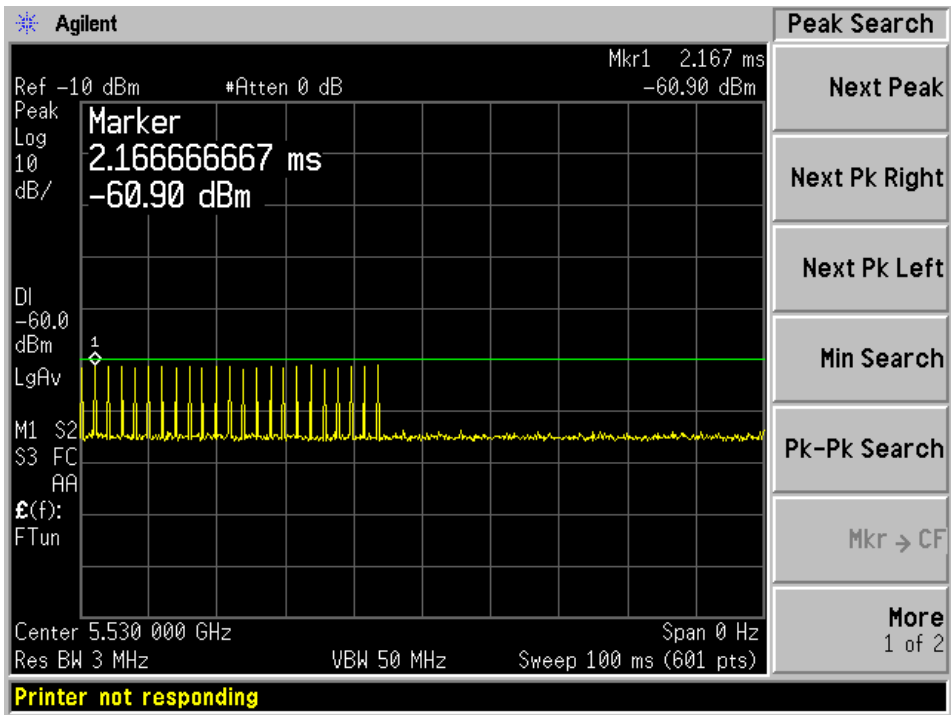
## Radar Type 0



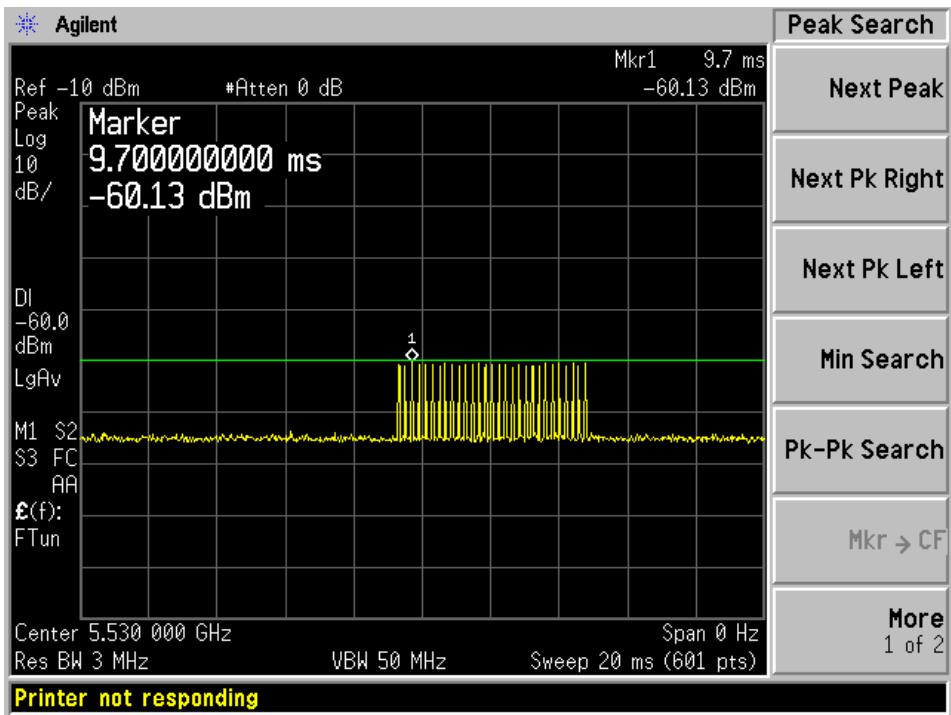
## Radar Type 1A



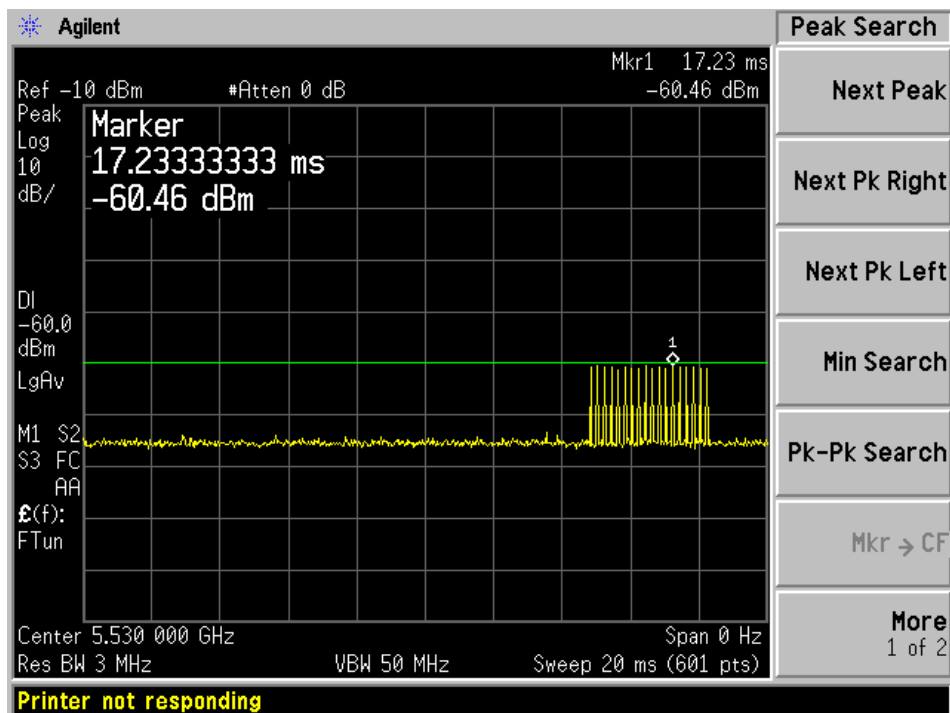
Radar Type 1B



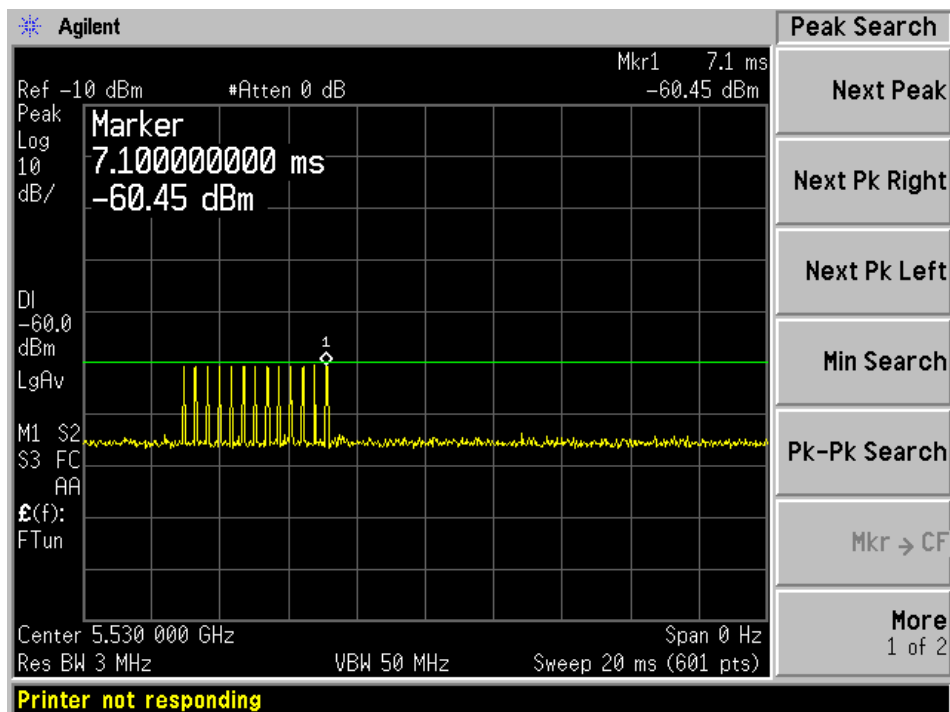
Radar Type 2



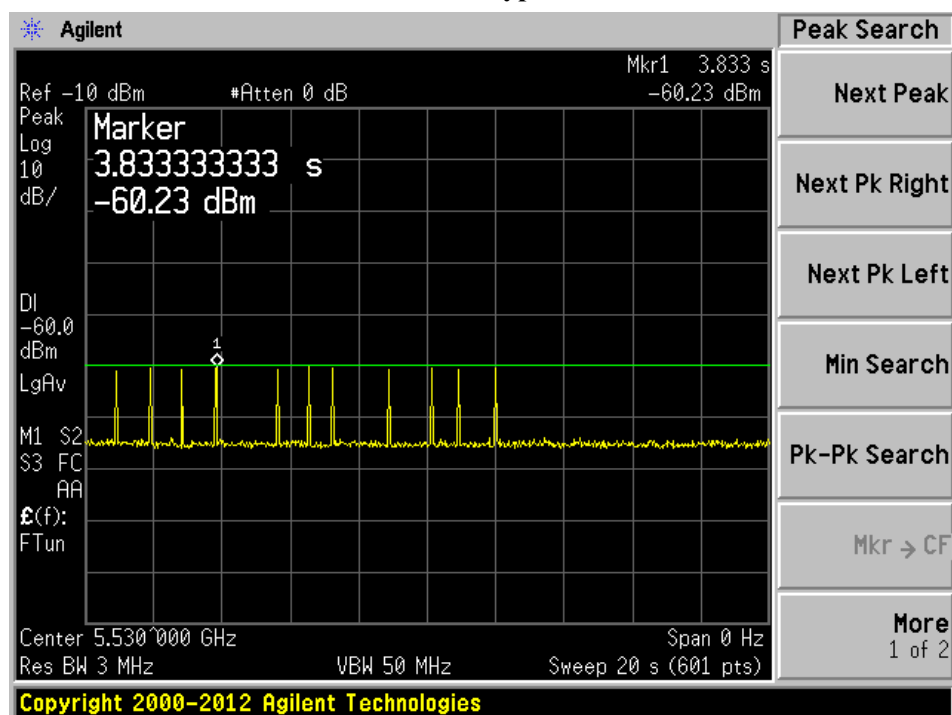
## Radar Type 3



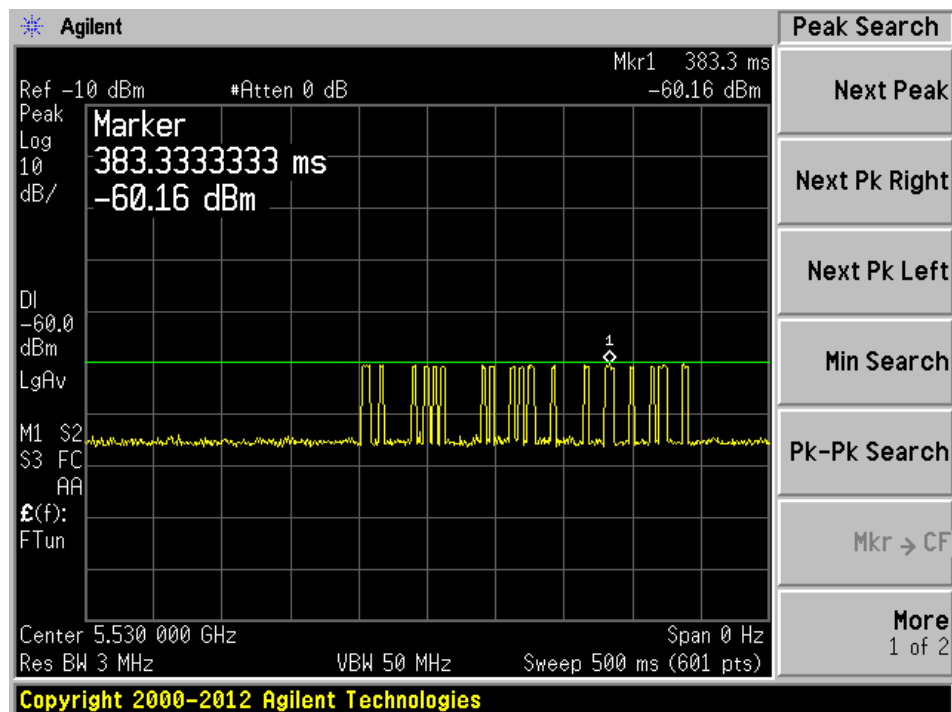
## Radar Type 4



## Radar Type 5

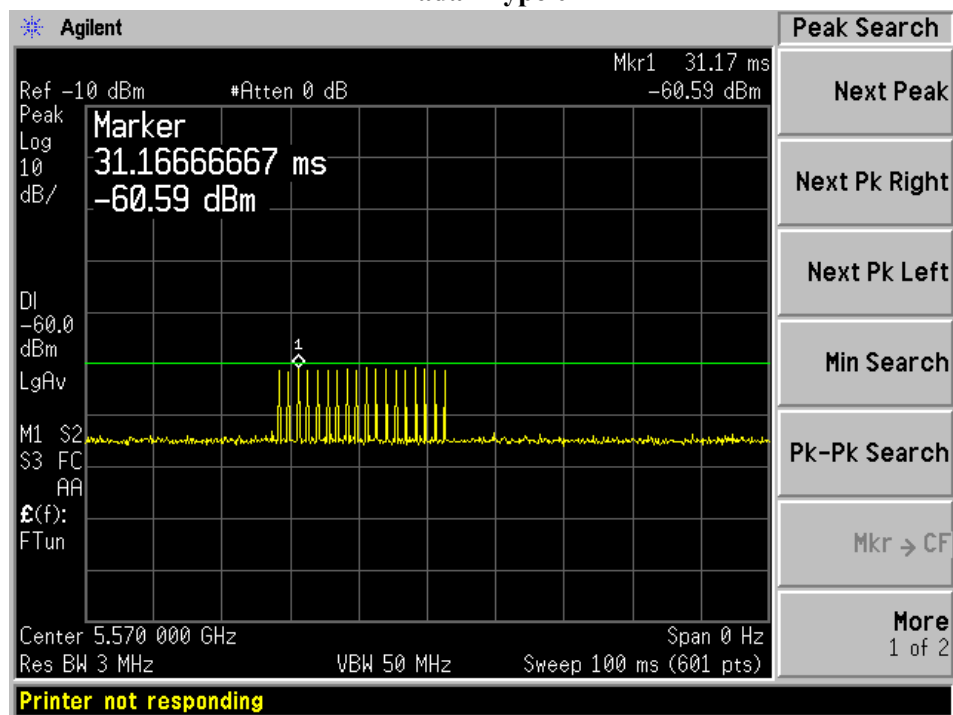


## Radar Type 6

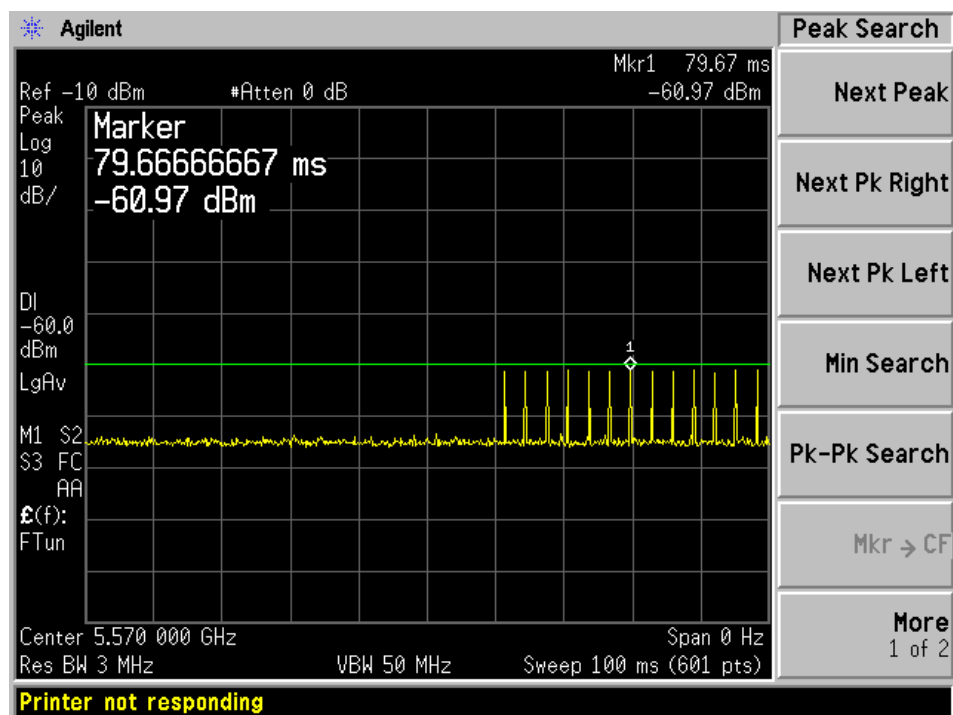


## 5570 MHz

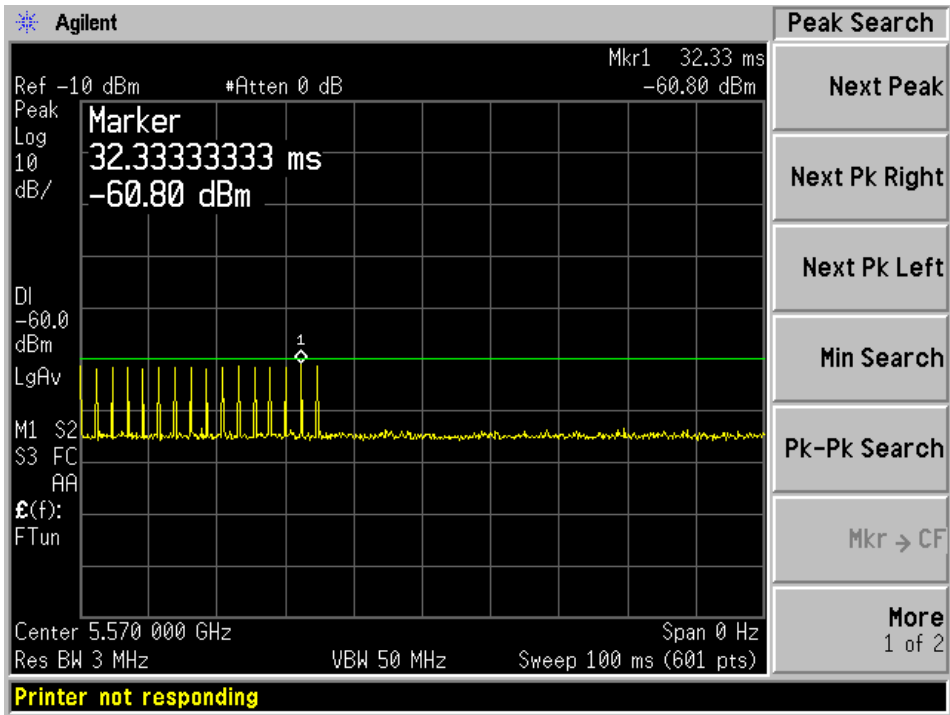
## Radar Type 0



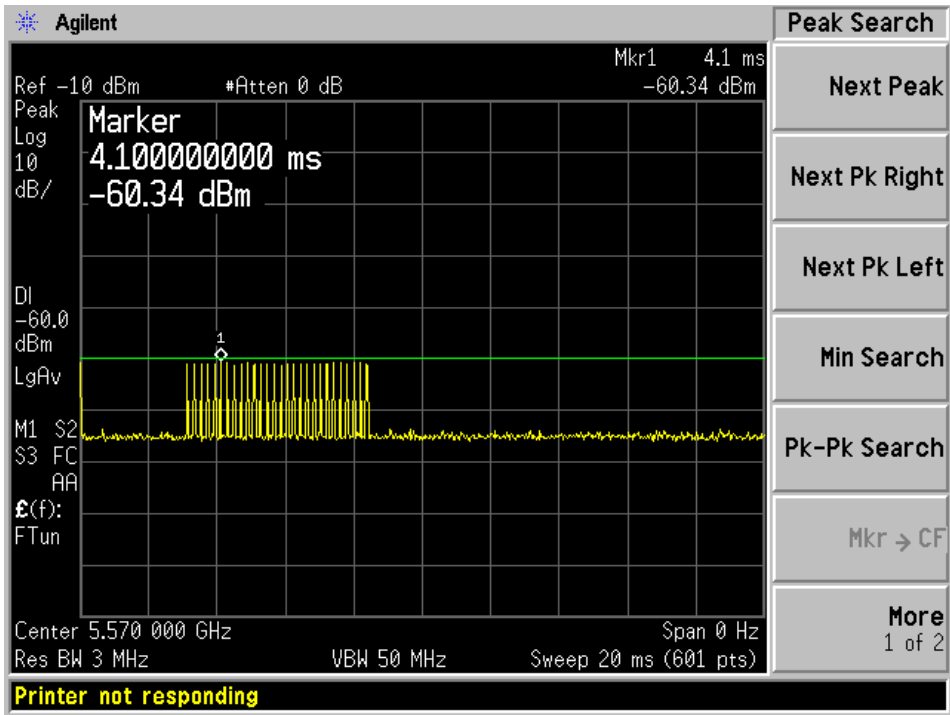
## Radar Type 1A



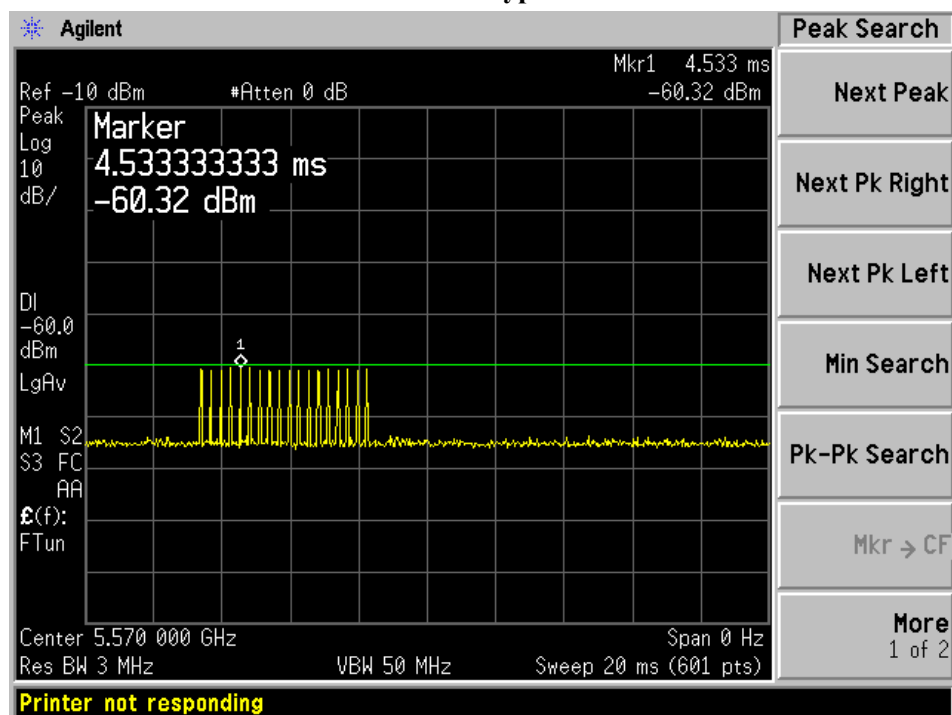
Radar Type 1B



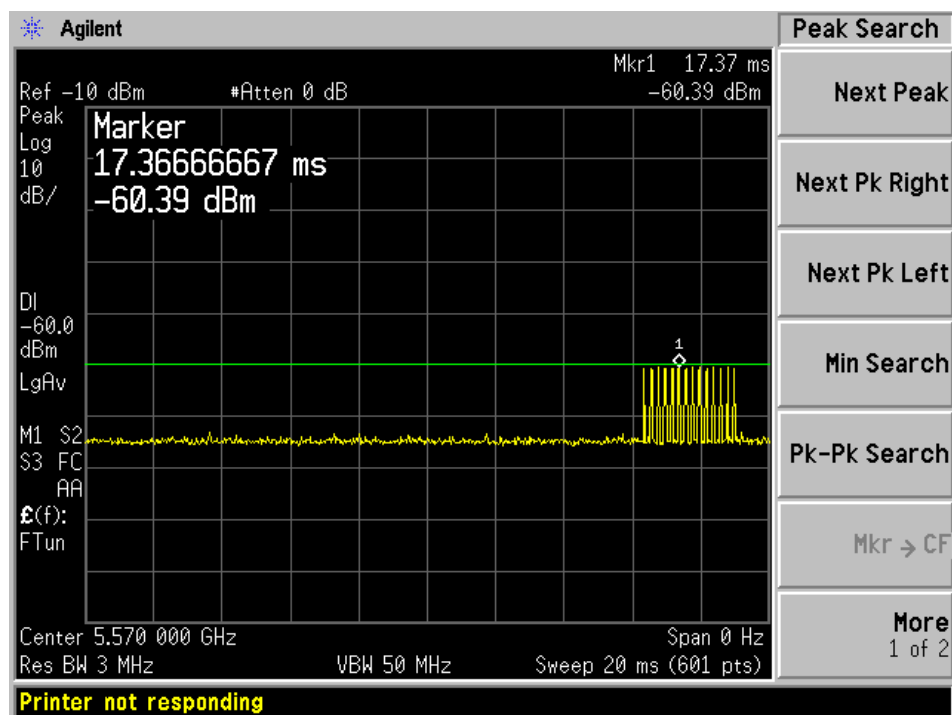
Radar Type 2



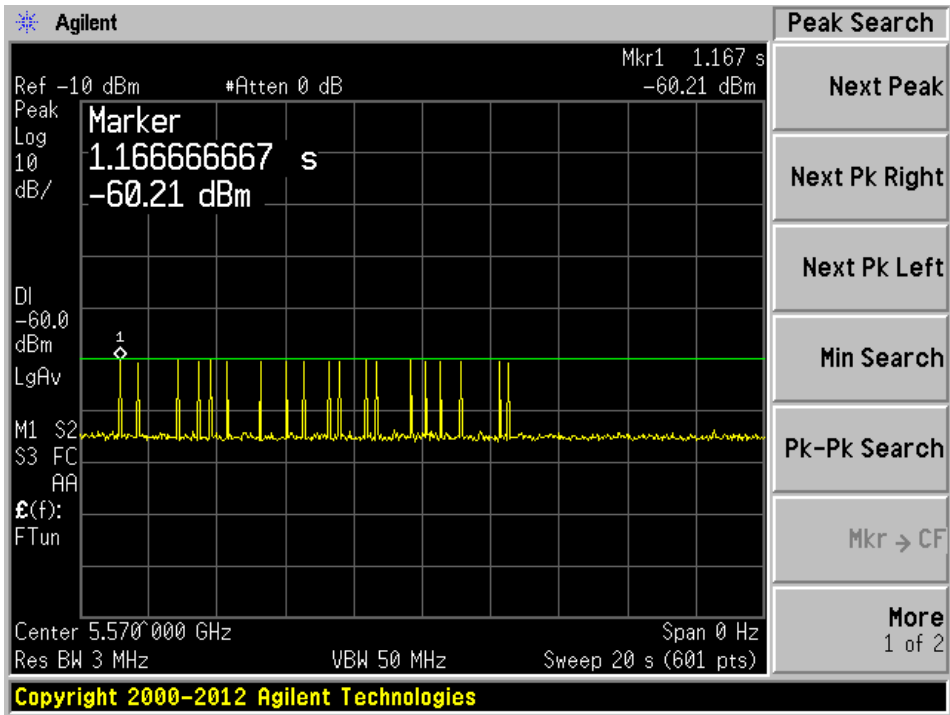
## Radar Type 3



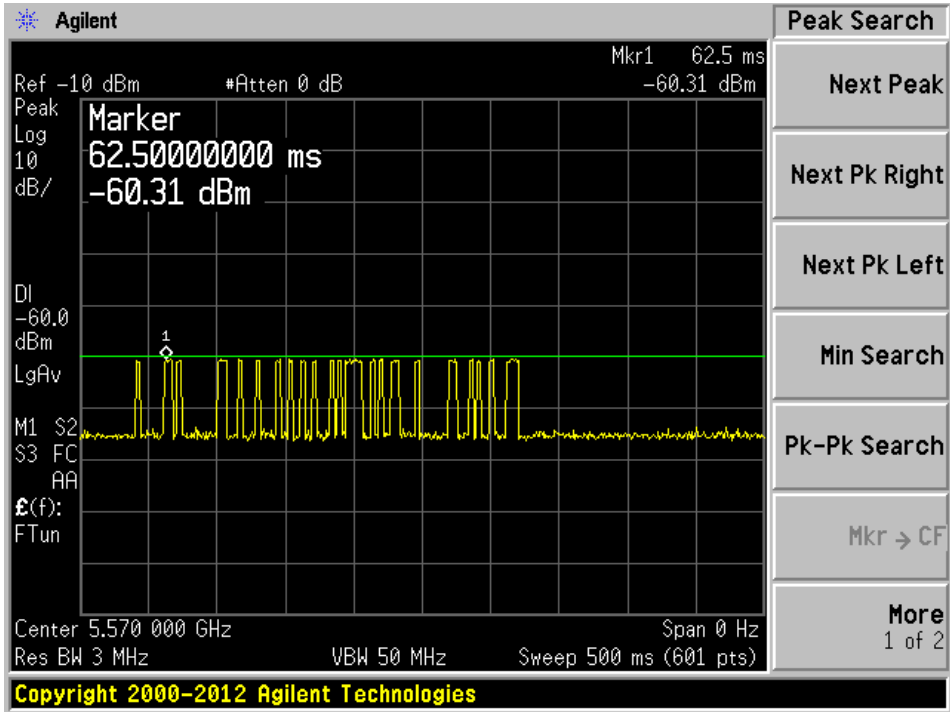
## Radar Type 4



Radar Type 5



Radar Type 6



## 6 Channel Availability Check Time (CAC)

### 6.1 Test Procedure

- 1) Measure the CAC time period after executing the initiating CAC command.
- 2) With link established on channel, apply a radar signal within first 6 seconds after CAC starts; monitor the transmissions on channel from the spectrum analyzer.
- 3) With a link established on channel, apply a radar signal within last 6 seconds before CAC ends, and monitor the transmission on channel from the spectrum analyzer.

Note: EUT has command to initiate CAC

### 6.2 Results:

#### 5 GHz – Regular Radio

| Timing of Radar Burst                | Spectrum Analyzer Display  | Result |
|--------------------------------------|----------------------------|--------|
| No Radar Triggered                   | Total CAC Period 61 second | Pass   |
| Within 6 seconds of the CAC starting | No transmission            | Pass   |
| Within the last 6 seconds of the CAC | No transmission            | Pass   |

#### 5 GHz – Xor Radio

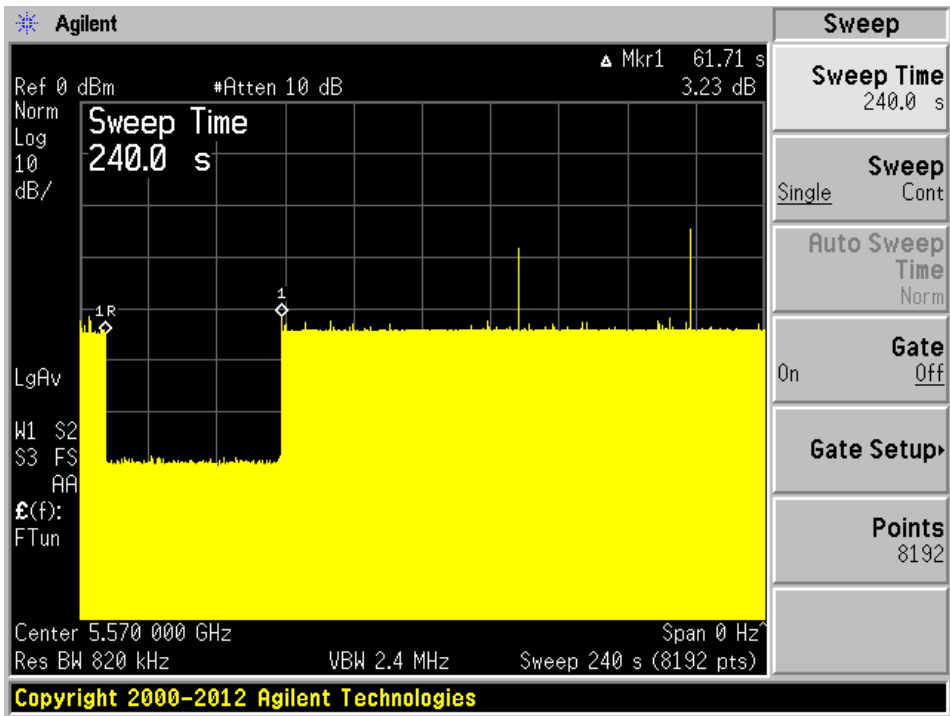
| Timing of Radar Burst                | Spectrum Analyzer Display  | Result |
|--------------------------------------|----------------------------|--------|
| No Radar Triggered                   | Total CAC Period 61 second | Pass   |
| Within 6 seconds of the CAC starting | No transmission            | Pass   |
| Within the last 6 seconds of the CAC | No transmission            | Pass   |

Note: The CAC was tested with the Radar type 0.

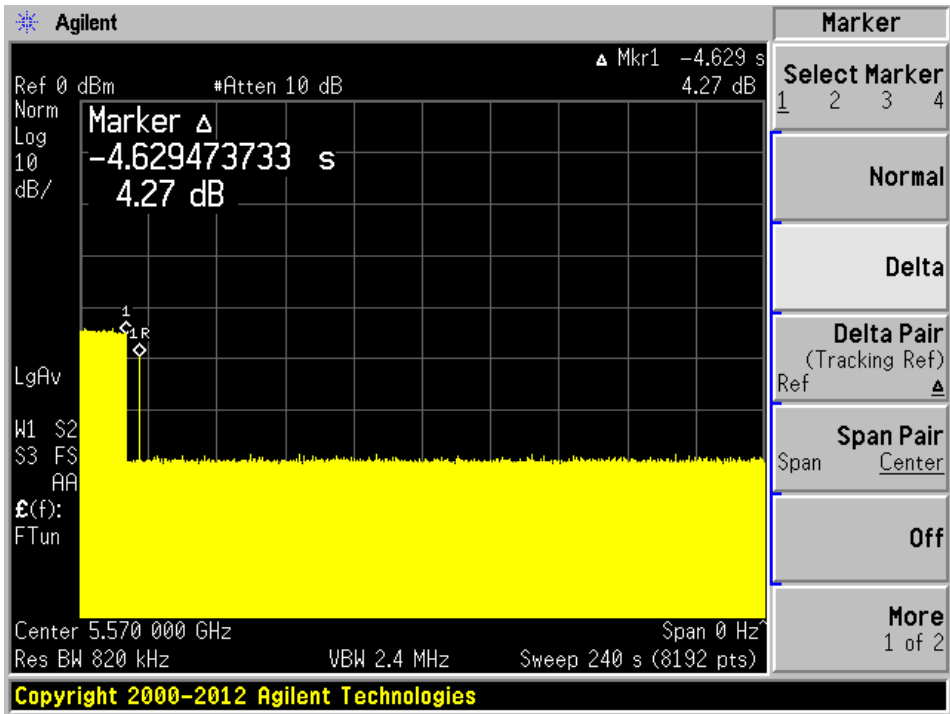
5 GHz – Regular Radio

5570 MHz

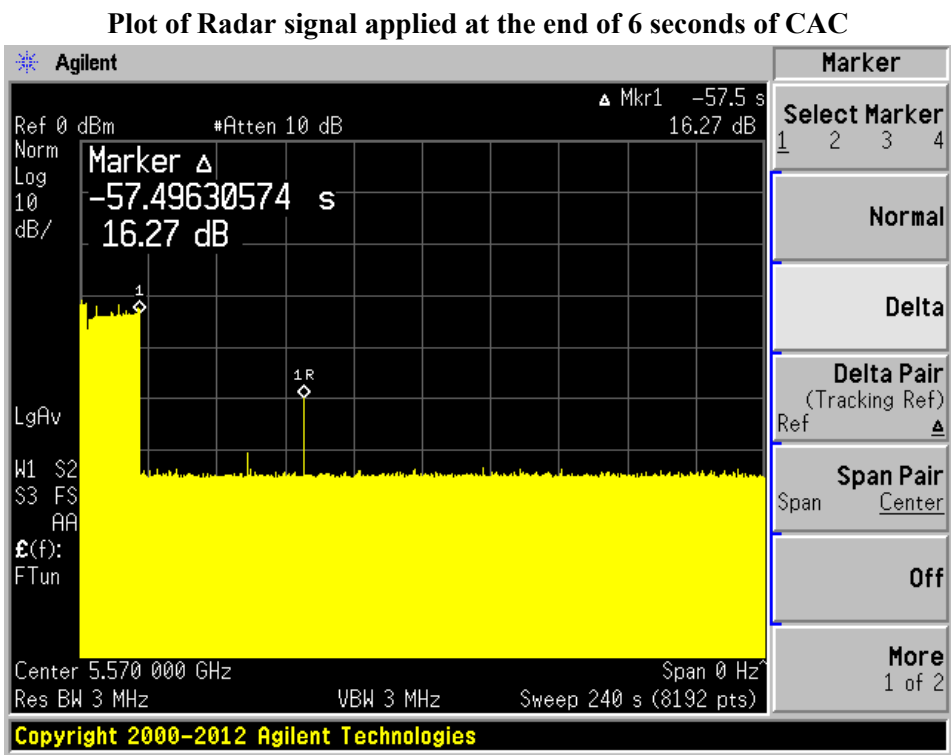
Plot of CAC Time Period



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



No transmissions found after radar signal applied.

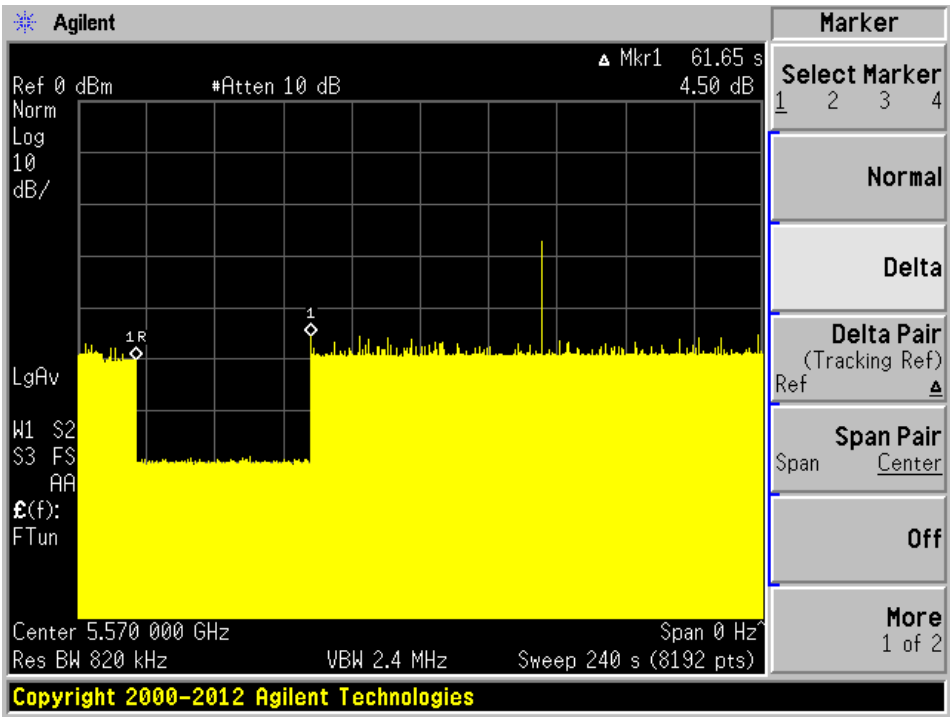


No transmissions found after radar signal applied.

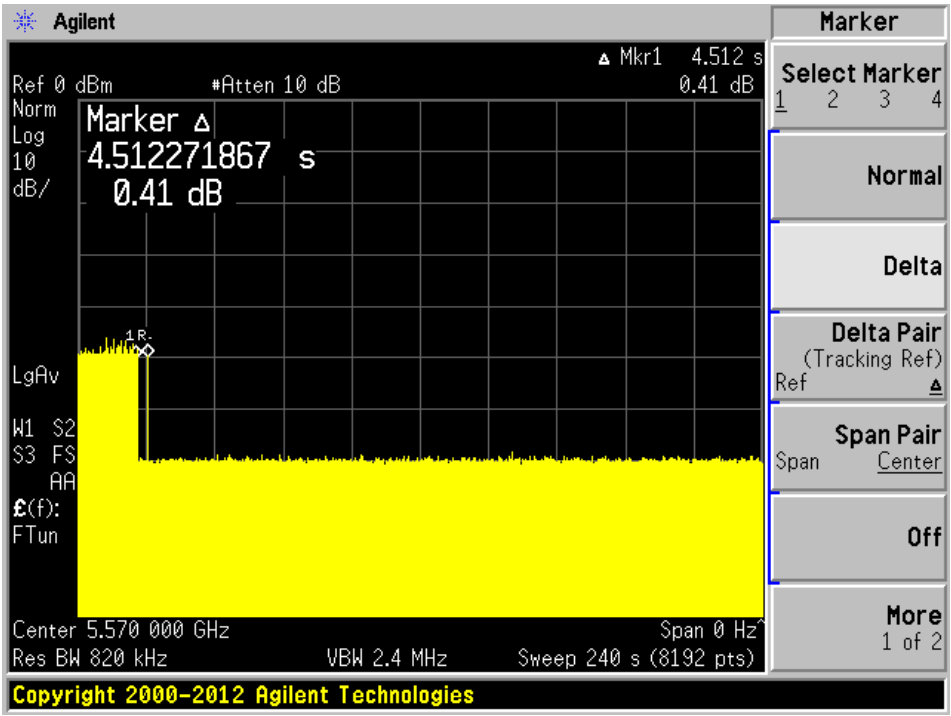
5 GHz – XOR Radio

5570 MHz

Plot of CAC Time Period

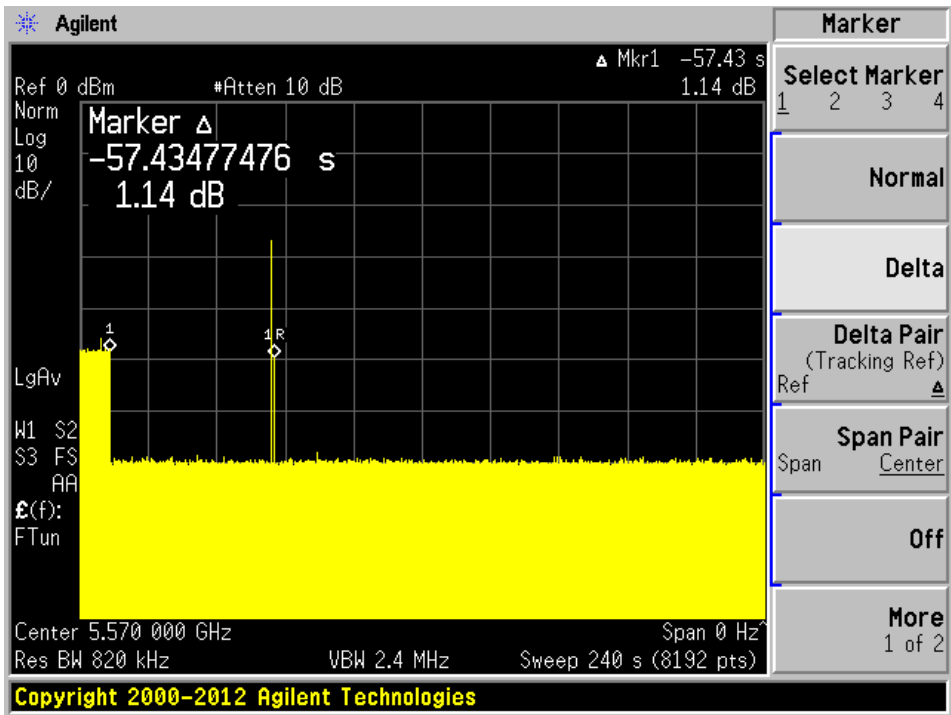


Plot of Radar signal applied within 6 seconds of start of CAC



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

#### 5 GHz – Regular Radio

| Frequency (MHz) | Bandwidth (MHz) | Radar Type | Results   |
|-----------------|-----------------|------------|-----------|
| 5570            | 160             | Type 0     | Compliant |

#### 5 GHz – Xor Radio

| Frequency (MHz) | Bandwidth (MHz) | Radar Type | Results   |
|-----------------|-----------------|------------|-----------|
| 5570            | 160             | Type 0     | Compliant |

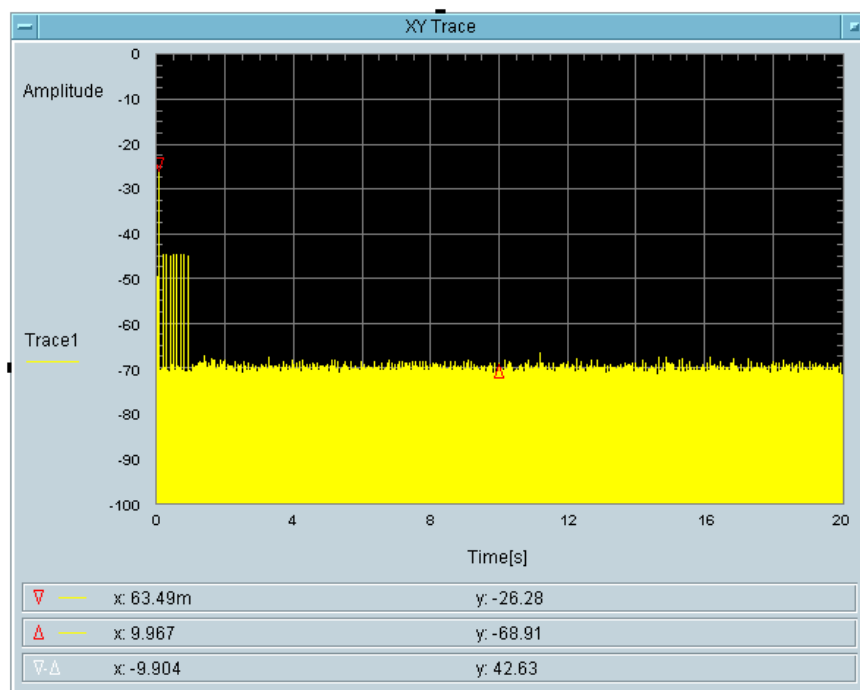
Please refer to the following tables and plots.

**5 GHz – Regular Radio****5570 MHz, Bandwidth 160 MHz**

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

| Channel closing transmitting time (ms) | Limit (ms) | Result |
|----------------------------------------|------------|--------|
| 46.39 + 17.09                          | 200+60     | Pass   |

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



Total On Time [s]  
46.39m

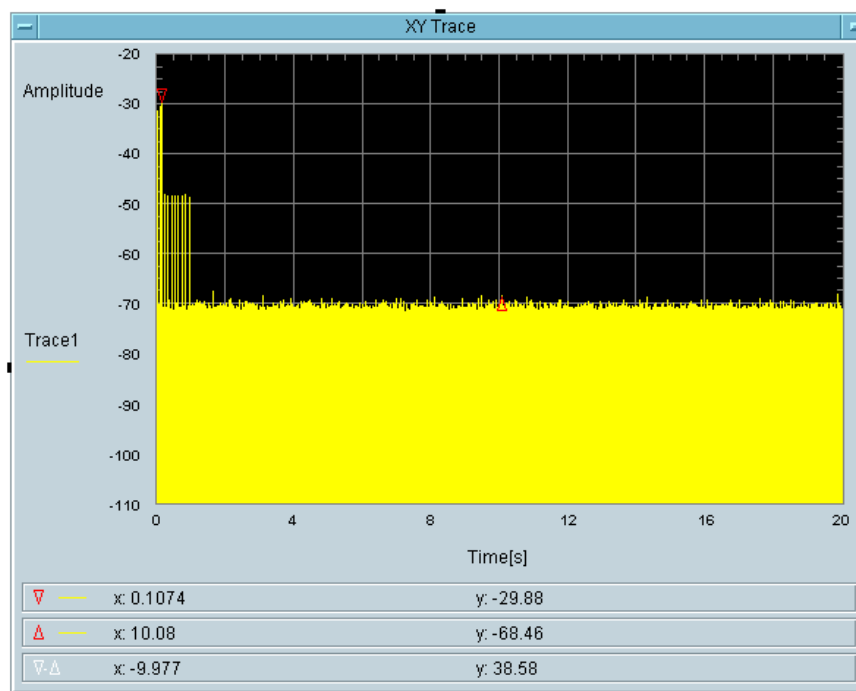
Total On Time After Delay [s]  
17.09m

**5 GHz – XOR Radio****5570 MHz, Bandwidth 160 MHz**

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

| Channel closing transmitting time (ms) | Limit (ms) | Result |
|----------------------------------------|------------|--------|
| 53.71 + 26.86                          | 200+60     | Pass   |

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



Total On Time [s]  
53.71m

Total On Time After Delay [s]  
26.86m

## 8 Non-Occupancy Period

### 8.1 Test Procedure

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

### 8.2 Test Results

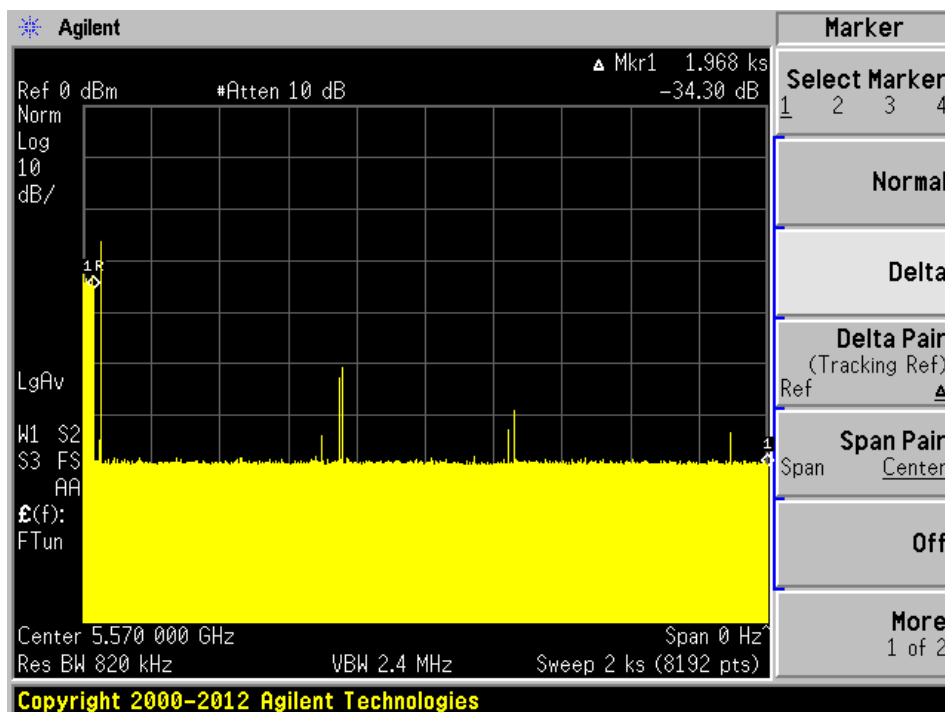
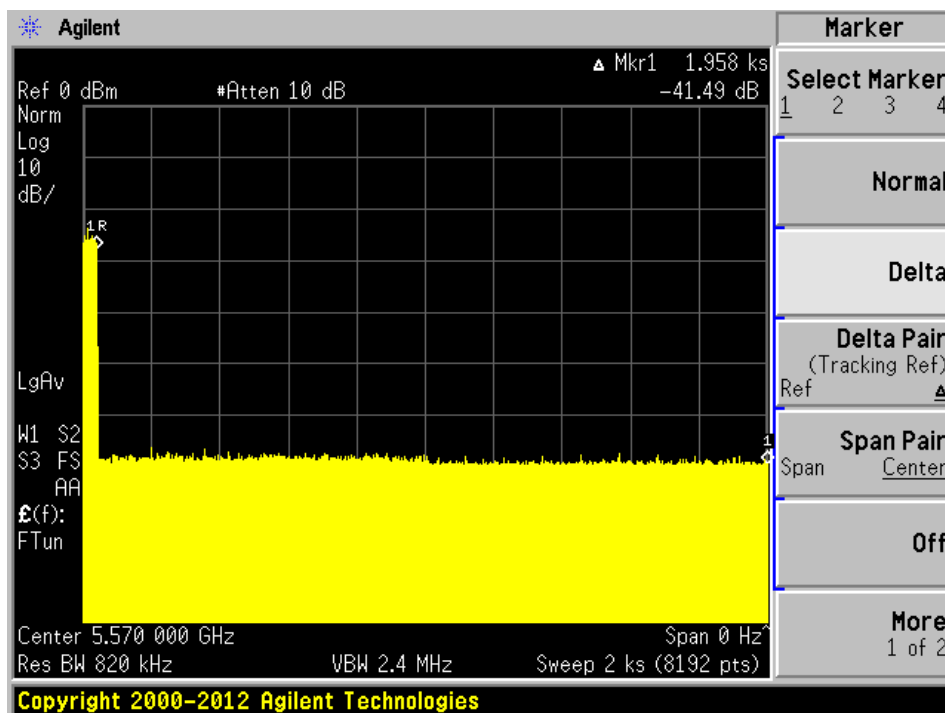
5 GHz – Regular Radio

| Frequency (MHz) | Bandwidth (MHz) | Spectrum Analyzer Display         |
|-----------------|-----------------|-----------------------------------|
| 5570            | 160             | No transmission within 30 minutes |

5 GHz – XOR Radio

| Frequency (MHz) | Bandwidth (MHz) | Spectrum Analyzer Display         |
|-----------------|-----------------|-----------------------------------|
| 5570            | 160             | No transmission within 30 minutes |

Please refer to the following plots.

**5 GHz – Regular Radio****5570 MHz, Bandwidth 160 MHz****5 GHz – XOR Radio****5570 MHz, Bandwidth 160 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 UUT 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  $F_H$ ) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above  $F_H$  is not required to demonstrate compliance.

Starting at the center frequency of the UUT 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  $F_L$ ) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below  $F_L$  is not required to demonstrate compliance.

The U-NII Detection Bandwidth is calculated as follows: U-NII Detection Bandwidth =  $F_H - F_L$

#### Test Results

##### 5 GHz – Regular Radio

| Frequency (MHz) | $F_L$ (MHz) | $F_H$ (MHz) | Detection Bandwidth (MHz) | Minimum Limit (MHz) | Result     |
|-----------------|-------------|-------------|---------------------------|---------------------|------------|
| 5500            | 5491        | 5509        | 18                        | 17                  | Compliance |
| 5510            | 5492        | 5529        | 37                        | 36                  | Compliance |
| 5530            | 5492        | 5568        | 76                        | 76                  | Compliance |
| 5570            | 5490        | 5650        | 160                       | 155                 | Compliance |

##### 5 GHz – XOR Radio

| Frequency (MHz) | $F_L$ (MHz) | $F_H$ (MHz) | Detection Bandwidth (MHz) | Minimum Limit (MHz) | Result     |
|-----------------|-------------|-------------|---------------------------|---------------------|------------|
| 5500            | 5491        | 5508        | 17                        | 17                  | Compliance |
| 5510            | 5492        | 5528        | 36                        | 36                  | Compliance |
| 5530            | 5492        | 5568        | 76                        | 76                  | Compliance |
| 5570            | 5491        | 5650        | 159                       | 155                 | Compliance |

Please refer to the following tables.

**5 GHz – Regular Radio****Results of Detection Bandwidth:**

| <b>EUT Frequency = 5500 MHz</b>                                             |          |          |          |          |          |                |          |          |          |           |                           |
|-----------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------------|----------|----------|----------|-----------|---------------------------|
| <b>DFS Detection Trials ( 1 = Detected, 0 = No Detected)</b>                |          |          |          |          |          |                |          |          |          |           |                           |
| <b>Radar Frequency (MHz)</b>                                                | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b>       | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>Detection Rate (%)</b> |
| 5490                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| <b>5491(F<sub>L</sub>)</b>                                                  | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5495                                                                        | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5500(F <sub>c</sub> )                                                       | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5505                                                                        | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| <b>5509(F<sub>H</sub>)</b>                                                  | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5510                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| <b>Detection Bandwidth = F<sub>H</sub> – F<sub>L</sub>=5509-5491=18 MHz</b> |          |          |          |          |          |                |          |          |          |           |                           |
| <b>EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz</b>                             |          |          |          |          |          | <b>Result:</b> |          | Pass     |          |           |                           |

| <b>EUT Frequency = 5510 MHz</b>                                             |          |          |          |          |          |                |          |          |          |           |                           |
|-----------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------------|----------|----------|----------|-----------|---------------------------|
| <b>DFS Detection Trials ( 1 = Detected, 0 = No Detected)</b>                |          |          |          |          |          |                |          |          |          |           |                           |
| <b>Radar Frequency (MHz)</b>                                                | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b>       | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>Detection Rate (%)</b> |
| 5490                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| 5491                                                                        | 1        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 10 %                      |
| <b>5492(F<sub>L</sub>)</b>                                                  | 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(F <sub>c</sub> )                                                       | 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 %                     |
| <b>5529(F<sub>H</sub>)</b>                                                  | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5530                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| <b>Detection Bandwidth = F<sub>H</sub> – F<sub>L</sub>=5529-5492=37 MHz</b> |          |          |          |          |          |                |          |          |          |           |                           |
| <b>EUT 99% OBW = 36 MHz; 36 x 100% = 36 MHz</b>                             |          |          |          |          |          | <b>Result:</b> |          | 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 (%) |
| 5490                                                                           | 0 | 0 | 0 | 0 | 0 | 0              | 0 | 0    | 0 | 0  | 0 %                |
| 5491                                                                           | 0 | 0 | 0 | 0 | 0 | 0              | 0 | 0    | 0 | 0  | 0 %                |
| <b>5492(F<sub>L</sub>)</b>                                                     | 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(F <sub>c</sub> )                                                          | 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 %              |
| <b>5568(F<sub>H</sub>)</b>                                                     | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5569                                                                           | 0 | 0 | 0 | 0 | 0 | 0              | 0 | 0    | 0 | 0  | 0 %                |
| 5570                                                                           | 0 | 0 | 0 | 0 | 0 | 0              | 0 | 0    | 0 | 0  | 0 %                |
| <b>Detection Bandwidth</b> = F <sub>H</sub> – F <sub>L</sub> =5568-5492=76 MHz |   |   |   |   |   |                |   |      |   |    |                    |
| <b>EUT 99% OBW</b> = 76 MHz; 76 x 100% = 76 MHz                                |   |   |   |   |   | <b>Result:</b> |   | Pass |   |    |                    |

| EUT Frequency = 5570 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 %                |
| <b>5490(F<sub>L</sub>)</b>                                                      | 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                                                                            | 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 <sub>C</sub> )                                                           | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5575                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5580                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5585                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5590                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5595                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5600                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5605                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5610                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5615                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5620                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5625                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5630                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5635                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5640                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5645                                                                            | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| <b>5650(F<sub>H</sub>)</b>                                                      | 1 | 1 | 1 | 1 | 1 | 1              | 1 | 1    | 1 | 1  | 100 %              |
| 5651                                                                            | 0 | 0 | 0 | 0 | 0 | 0              | 0 | 0    | 0 | 0  | 0 %                |
| <b>Detection Bandwidth</b> = F <sub>H</sub> – F <sub>L</sub> =5650-5490=160 MHz |   |   |   |   |   |                |   |      |   |    |                    |
| <b>EUT 99% OBW</b> = 155 MHz; 155 x 100% = 155 MHz                              |   |   |   |   |   | <b>Result:</b> |   | Pass |   |    |                    |

**5 GHz – XOR Radio****Results of Detection Bandwidth:**

| <b>EUT Frequency = 5500 MHz</b>                                             |          |          |          |          |          |                |          |          |          |           |                           |
|-----------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------------|----------|----------|----------|-----------|---------------------------|
| <b>DFS Detection Trials ( 1 = Detected, 0 = No Detected)</b>                |          |          |          |          |          |                |          |          |          |           |                           |
| <b>Radar Frequency (MHz)</b>                                                | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b>       | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>Detection Rate (%)</b> |
| 5490                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| <b>5491(F<sub>L</sub>)</b>                                                  | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5495                                                                        | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5500(F <sub>c</sub> )                                                       | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5505                                                                        | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| <b>5508(F<sub>H</sub>)</b>                                                  | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5509                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| 5510                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| <b>Detection Bandwidth = F<sub>H</sub> – F<sub>L</sub>=5509-5491=17 MHz</b> |          |          |          |          |          |                |          |          |          |           |                           |
| <b>EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz</b>                             |          |          |          |          |          | <b>Result:</b> |          | Pass     |          |           |                           |

| <b>EUT Frequency = 5510 MHz</b>                                             |          |          |          |          |          |                |          |          |          |           |                           |
|-----------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------------|----------|----------|----------|-----------|---------------------------|
| <b>DFS Detection Trials ( 1 = Detected, 0 = No Detected)</b>                |          |          |          |          |          |                |          |          |          |           |                           |
| <b>Radar Frequency (MHz)</b>                                                | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b>       | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>Detection Rate (%)</b> |
| 5490                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| 5491                                                                        | 0        | 1        | 0        | 0        | 1        | 0              | 0        | 0        | 1        | 0         | 30 %                      |
| <b>5492(F<sub>L</sub>)</b>                                                  | 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(F <sub>c</sub> )                                                       | 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 %                     |
| <b>5528(F<sub>H</sub>)</b>                                                  | 1        | 1        | 1        | 1        | 1        | 1              | 1        | 1        | 1        | 1         | 100 %                     |
| 5529                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 1        | 1        | 0        | 1         | 30 %                      |
| 5530                                                                        | 0        | 0        | 0        | 0        | 0        | 0              | 0        | 0        | 0        | 0         | 0 %                       |
| <b>Detection Bandwidth = F<sub>H</sub> – F<sub>L</sub>=5529-5492=36 MHz</b> |          |          |          |          |          |                |          |          |          |           |                           |
| <b>EUT 99% OBW = 36 MHz; 36 x 100% = 36 MHz</b>                             |          |          |          |          |          | <b>Result:</b> |          | 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 (%) |
| 5490                                                                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0 %                |
| 5491                                                                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0 %                |
| <b>5492(F<sub>L</sub>)</b>                                                     | 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(F <sub>c</sub> )                                                          | 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 %              |
| <b>5568(F<sub>H</sub>)</b>                                                     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100 %              |
| 5569                                                                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0 %                |
| 5570                                                                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0 %                |
| <b>Detection Bandwidth</b> = F <sub>H</sub> – F <sub>L</sub> =5568-5492=76 MHz |   |   |   |   |   |   |   |   |   |    |                    |
| <b>EUT 99% OBW</b> = 76 MHz; 76 x 100% = 76 MHz <b>Result:</b> Pass            |   |   |   |   |   |   |   |   |   |    |                    |

| EUT Frequency = 5570 MHz                                                 |   |   |   |   |   |         |   |      |   |    |                    |
|--------------------------------------------------------------------------|---|---|---|---|---|---------|---|------|---|----|--------------------|
| DFS Detection Trials ( 1 = Detected, 0 = No Detected)                    |   |   |   |   |   |         |   |      |   |    |                    |
| Radar Frequency (MHz)                                                    | 1 | 2 | 3 | 4 | 5 | 6       | 7 | 8    | 9 | 10 | Detection Rate (%) |
| 5490                                                                     | 0 | 0 | 0 | 0 | 0 | 0       | 0 | 0    | 0 | 0  | 0 %                |
| 5491(F <sub>L</sub> )                                                    | 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                                                                     | 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 <sub>C</sub> )                                                    | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5575                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5580                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5585                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5590                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5595                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5600                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5605                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5610                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5615                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5620                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5625                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5630                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5635                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5640                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5645                                                                     | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5650(F <sub>H</sub> )                                                    | 1 | 1 | 1 | 1 | 1 | 1       | 1 | 1    | 1 | 1  | 100 %              |
| 5651                                                                     | 0 | 0 | 0 | 0 | 0 | 0       | 0 | 0    | 0 | 0  | 0 %                |
| Detection Bandwidth = F <sub>H</sub> – F <sub>L</sub> =5650-5491=159 MHz |   |   |   |   |   |         |   |      |   |    |                    |
| EUT 99% OBW = 155 MHz; 155 x 100% = 155 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:

#### 5 GHz – Regular Radio

#### 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                    | 93.3 %        | 60%       | Pass      |
| Type 3                 | 30                    | 93.3 %        | 60%       | Pass      |
| Type 4                 | 30                    | 76.7 %        | 60%       | Pass      |
| Aggregate (Type1 to 4) | 120                   | 90.83 %       | 80%       | Pass      |
| Type 5                 | 30                    | 100 %         | 80%       | Pass      |
| Type 6                 | 30                    | 100 %         | 70%       | Pass      |

Please refer to the following statistical tables:

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

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5500            | 83                 | 1                       | 638             | 1                              |
| 2                                            | 5500            | 76                 | 1                       | 698             | 1                              |
| 3                                            | 5500            | 81                 | 1                       | 658             | 1                              |
| 4                                            | 5500            | 63                 | 1                       | 838             | 1                              |
| 5                                            | 5500            | 57                 | 1                       | 938             | 1                              |
| 6                                            | 5491            | 72                 | 1                       | 738             | 1                              |
| 7                                            | 5491            | 78                 | 1                       | 678             | 1                              |
| 8                                            | 5491            | 67                 | 1                       | 798             | 1                              |
| 9                                            | 5491            | 92                 | 1                       | 578             | 1                              |
| 10                                           | 5491            | 58                 | 1                       | 918             | 1                              |
| 11                                           | 5509            | 59                 | 1                       | 898             | 1                              |
| 12                                           | 5509            | 70                 | 1                       | 758             | 1                              |
| 13                                           | 5509            | 62                 | 1                       | 858             | 1                              |
| 14                                           | 5509            | 86                 | 1                       | 618             | 1                              |
| 15                                           | 5509            | 74                 | 1                       | 718             | 1                              |
| 16                                           | 5500            | 59                 | 1                       | 902             | 1                              |
| 17                                           | 5500            | 39                 | 1                       | 1356            | 1                              |
| 18                                           | 5500            | 42                 | 1                       | 1276            | 1                              |
| 19                                           | 5500            | 29                 | 1                       | 1857            | 1                              |
| 20                                           | 5500            | 21                 | 1                       | 2619            | 1                              |
| 21                                           | 5491            | 23                 | 1                       | 2304            | 1                              |
| 22                                           | 5491            | 21                 | 1                       | 2572            | 1                              |
| 23                                           | 5491            | 48                 | 1                       | 1112            | 1                              |
| 24                                           | 5491            | 21                 | 1                       | 2567            | 1                              |
| 25                                           | 5491            | 19                 | 1                       | 2882            | 1                              |
| 26                                           | 5509            | 47                 | 1                       | 1126            | 1                              |
| 27                                           | 5509            | 32                 | 1                       | 1694            | 1                              |
| 28                                           | 5509            | 68                 | 1                       | 781             | 1                              |
| 29                                           | 5509            | 48                 | 1                       | 1101            | 1                              |
| 30                                           | 5509            | 18                 | 1                       | 2933            | 1                              |
| <b>Detection Percentage: 100 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-2 Radar Type 2 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5500            | 24                 | 3.1                     | 171             | 1                              |
| 2                                             | 5500            | 24                 | 2.1                     | 197             | 1                              |
| 3                                             | 5500            | 29                 | 2.2                     | 184             | 1                              |
| 4                                             | 5500            | 27                 | 2.8                     | 182             | 1                              |
| 5                                             | 5500            | 28                 | 2.2                     | 216             | 1                              |
| 6                                             | 5500            | 25                 | 3.2                     | 172             | 1                              |
| 7                                             | 5500            | 23                 | 3.5                     | 158             | 1                              |
| 8                                             | 5500            | 26                 | 3.9                     | 214             | 1                              |
| 9                                             | 5500            | 27                 | 2.3                     | 221             | 1                              |
| 10                                            | 5500            | 24                 | 1                       | 195             | 1                              |
| 11                                            | 5491            | 25                 | 2.8                     | 212             | 1                              |
| 12                                            | 5491            | 24                 | 1.4                     | 223             | 1                              |
| 13                                            | 5491            | 25                 | 1.6                     | 158             | 1                              |
| 14                                            | 5491            | 25                 | 2                       | 226             | 1                              |
| 15                                            | 5491            | 27                 | 3.4                     | 178             | 0                              |
| 16                                            | 5491            | 24                 | 3                       | 150             | 1                              |
| 17                                            | 5491            | 26                 | 2.5                     | 175             | 1                              |
| 18                                            | 5491            | 26                 | 4                       | 156             | 1                              |
| 19                                            | 5491            | 28                 | 1.6                     | 192             | 1                              |
| 20                                            | 5491            | 27                 | 1.3                     | 173             | 0                              |
| 21                                            | 5509            | 25                 | 4.9                     | 207             | 1                              |
| 22                                            | 5509            | 27                 | 1.8                     | 223             | 1                              |
| 23                                            | 5509            | 28                 | 2.5                     | 226             | 1                              |
| 24                                            | 5509            | 29                 | 2.5                     | 165             | 1                              |
| 25                                            | 5509            | 25                 | 2.9                     | 155             | 1                              |
| 26                                            | 5509            | 28                 | 1.4                     | 193             | 1                              |
| 27                                            | 5509            | 23                 | 1.6                     | 198             | 1                              |
| 28                                            | 5509            | 24                 | 2.8                     | 153             | 1                              |
| 29                                            | 5509            | 23                 | 3.3                     | 229             | 1                              |
| 30                                            | 5509            | 28                 | 1.4                     | 225             | 1                              |
| <b>Detection Percentage: 93.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-3 Radar Type 3 Statistical Performance**

| <b>Trial #</b>                              | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|---------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                           | 5500            | 17                 | 7.9                     | 251             | 1                              |
| 2                                           | 5500            | 16                 | 7.1                     | 236             | 1                              |
| 3                                           | 5500            | 16                 | 9.7                     | 468             | 1                              |
| 4                                           | 5500            | 18                 | 6.4                     | 256             | 1                              |
| 5                                           | 5500            | 16                 | 6                       | 458             | 1                              |
| 6                                           | 5500            | 16                 | 6.8                     | 465             | 1                              |
| 7                                           | 5500            | 18                 | 6.8                     | 408             | 1                              |
| 8                                           | 5500            | 16                 | 9.1                     | 235             | 1                              |
| 9                                           | 5500            | 18                 | 8.3                     | 390             | 1                              |
| 10                                          | 5500            | 16                 | 6.2                     | 305             | 0                              |
| 11                                          | 5491            | 17                 | 7.1                     | 336             | 1                              |
| 12                                          | 5491            | 17                 | 7.1                     | 285             | 1                              |
| 13                                          | 5491            | 16                 | 8.5                     | 241             | 1                              |
| 14                                          | 5491            | 16                 | 9.1                     | 221             | 1                              |
| 15                                          | 5491            | 18                 | 7.5                     | 364             | 1                              |
| 16                                          | 5491            | 16                 | 9.7                     | 486             | 1                              |
| 17                                          | 5491            | 16                 | 8.7                     | 276             | 1                              |
| 18                                          | 5491            | 16                 | 7.1                     | 464             | 1                              |
| 19                                          | 5491            | 17                 | 9.4                     | 245             | 1                              |
| 20                                          | 5491            | 17                 | 9.1                     | 249             | 1                              |
| 21                                          | 5509            | 17                 | 9.1                     | 322             | 1                              |
| 22                                          | 5509            | 17                 | 7.3                     | 331             | 1                              |
| 23                                          | 5509            | 18                 | 8.7                     | 331             | 1                              |
| 24                                          | 5509            | 18                 | 9.8                     | 248             | 1                              |
| 25                                          | 5509            | 18                 | 7.1                     | 287             | 0                              |
| 26                                          | 5509            | 17                 | 9.3                     | 342             | 1                              |
| 27                                          | 5509            | 17                 | 7.3                     | 285             | 1                              |
| 28                                          | 5509            | 18                 | 8.9                     | 451             | 1                              |
| 29                                          | 5509            | 18                 | 9.3                     | 361             | 1                              |
| 30                                          | 5509            | 17                 | 7.1                     | 359             | 1                              |
| <b>Detection Percentage: 90 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-4 Radar Type 4 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5500            | 12                 | 17                      | 416             | 1                              |
| 2                                            | 5500            | 16                 | 17.6                    | 415             | 1                              |
| 3                                            | 5500            | 16                 | 15.2                    | 235             | 1                              |
| 4                                            | 5500            | 15                 | 16                      | 283             | 0                              |
| 5                                            | 5500            | 13                 | 11.1                    | 232             | 1                              |
| 6                                            | 5500            | 15                 | 18.3                    | 270             | 0                              |
| 7                                            | 5500            | 14                 | 13.9                    | 380             | 1                              |
| 8                                            | 5500            | 14                 | 19.2                    | 422             | 1                              |
| 9                                            | 5500            | 13                 | 15.6                    | 212             | 0                              |
| 10                                           | 5500            | 13                 | 18.1                    | 270             | 1                              |
| 11                                           | 5491            | 15                 | 14.2                    | 450             | 1                              |
| 12                                           | 5491            | 15                 | 15.9                    | 472             | 1                              |
| 13                                           | 5491            | 16                 | 14                      | 361             | 1                              |
| 14                                           | 5491            | 15                 | 14.8                    | 273             | 1                              |
| 15                                           | 5491            | 16                 | 17.7                    | 365             | 1                              |
| 16                                           | 5491            | 13                 | 17.1                    | 246             | 1                              |
| 17                                           | 5491            | 12                 | 11.5                    | 316             | 1                              |
| 18                                           | 5491            | 16                 | 19.3                    | 290             | 0                              |
| 19                                           | 5491            | 14                 | 18                      | 257             | 1                              |
| 20                                           | 5491            | 12                 | 15                      | 288             | 0                              |
| 21                                           | 5509            | 15                 | 14                      | 422             | 1                              |
| 22                                           | 5509            | 12                 | 12.2                    | 367             | 0                              |
| 23                                           | 5509            | 16                 | 19.4                    | 246             | 1                              |
| 24                                           | 5509            | 16                 | 16.6                    | 301             | 1                              |
| 25                                           | 5509            | 14                 | 18.9                    | 474             | 1                              |
| 26                                           | 5509            | 16                 | 13.5                    | 415             | 1                              |
| 27                                           | 5509            | 13                 | 12.6                    | 342             | 1                              |
| 28                                           | 5509            | 16                 | 13.6                    | 427             | 0                              |
| 29                                           | 5509            | 16                 | 15.5                    | 357             | 1                              |
| 30                                           | 5509            | 13                 | 16.7                    | 329             | 1                              |
| <b>Detection Percentage: 76.7% (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-5 Radar Type 5 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------------------|
| 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                                           | 5495.8          | 1                              |
| 12                                           | 5495.0          | 1                              |
| 13                                           | 5496.6          | 1                              |
| 14                                           | 5497.4          | 1                              |
| 15                                           | 5495.4          | 1                              |
| 16                                           | 5494.6          | 1                              |
| 17                                           | 5497.8          | 1                              |
| 18                                           | 5495.8          | 1                              |
| 19                                           | 5493.4          | 1                              |
| 20                                           | 5497.4          | 1                              |
| 21                                           | 5504.6          | 1                              |
| 22                                           | 5501.8          | 1                              |
| 23                                           | 5503.4          | 1                              |
| 24                                           | 5505.8          | 1                              |
| 25                                           | 5505.0          | 1                              |
| 26                                           | 5503.4          | 1                              |
| 27                                           | 5506.2          | 1                              |
| 28                                           | 5506.2          | 1                              |
| 29                                           | 5506.6          | 1                              |
| 30                                           | 5501.4          | 1                              |
| <b>Detection Percentage: 100 % (&gt;80%)</b> |                 |                                |

## Bin5 Statistics 1

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 12          | 79               | 1471                   | 1354                   | 0.240581       | 1                       |
| 1       | 2     | 12          | 56.3             | 1571                   | -                      | 1.833461       |                         |
| 2       | 2     | 12          | 68.7             | 1206                   | -                      | 2.086336       |                         |
| 3       | 3     | 12          | 71.1             | 1933                   | 1988                   | 2.918959       |                         |
| 4       | 2     | 12          | 99.4             | 1806                   | -                      | 4.299029       |                         |
| 5       | 1     | 12          | 65.5             | -                      | -                      | 5.534533       |                         |
| 6       | 2     | 12          | 66.3             | 1144                   | -                      | 6.207744       |                         |
| 7       | 2     | 12          | 81.3             | 1215                   | -                      | 7.320383       |                         |
| 8       | 2     | 12          | 68.5             | 1025                   | -                      | 7.973492       |                         |
| 9       | 1     | 12          | 66.8             | -                      | -                      | 8.915982       |                         |
| 10      | 1     | 12          | 53               | -                      | -                      | 10.091749      |                         |
| 11      | 2     | 12          | 50.5             | 1642                   | -                      | 10.345827      |                         |
| 12      | 3     | 12          | 97.1             | 1796                   | 1585                   | 11.639598      |                         |

## Bin5 Statistics 2

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 13          | 55               | 1870                   | 1110                   | 0.131027       | 1                       |
| 1       | 2     | 13          | 52.7             | 1933                   | -                      | 0.987238       |                         |
| 2       | 1     | 13          | 52.9             | -                      | -                      | 1.770799       |                         |
| 3       | 3     | 13          | 74.5             | 1227                   | 1485                   | 2.589038       |                         |
| 4       | 1     | 13          | 73.4             | -                      | -                      | 2.836167       |                         |
| 5       | 2     | 13          | 55.1             | 1909                   | -                      | 3.557058       |                         |
| 6       | 2     | 13          | 72.2             | 1289                   | -                      | 4.441457       |                         |
| 7       | 3     | 13          | 66.1             | 1122                   | 1348                   | 5.236529       |                         |
| 8       | 3     | 13          | 83.7             | 1967                   | 1535                   | 5.899951       |                         |
| 9       | 2     | 13          | 98.7             | 1574                   | -                      | 6.254503       |                         |
| 10      | 3     | 13          | 62.1             | 1286                   | 1767                   | 6.860385       |                         |
| 11      | 3     | 13          | 66.7             | 1545                   | 1812                   | 7.989026       |                         |
| 12      | 2     | 13          | 91.1             | 1766                   | -                      | 8.559078       |                         |
| 13      | 2     | 13          | 85.8             | 1495                   | -                      | 8.97296        |                         |
| 14      | 1     | 13          | 80.5             | -                      | -                      | 9.854367       |                         |
| 15      | 3     | 13          | 84.5             | 1432                   | 1217                   | 10.286726      |                         |
| 16      | 1     | 13          | 81.5             | -                      | -                      | 10.97165       |                         |
| 17      | 3     | 13          | 95.3             | 1750                   | 1401                   | 11.819496      |                         |

## 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     | 8           | 70.7             | 1936                   | -                      | 0.236551       | 1                       |
| 1       | 3     | 8           | 57.7             | 1857                   | 1654                   | 1.492792       |                         |
| 2       | 1     | 8           | 77.1             | -                      | -                      | 2.07464        |                         |
| 3       | 2     | 8           | 66.6             | 1451                   | -                      | 2.502843       |                         |
| 4       | 2     | 8           | 64.5             | 1007                   | -                      | 3.682012       |                         |
| 5       | 3     | 8           | 56.5             | 1375                   | 1790                   | 4.585156       |                         |
| 6       | 3     | 8           | 83.5             | 1281                   | 1668                   | 5.084615       |                         |
| 7       | 2     | 8           | 79.5             | 1495                   | -                      | 5.923327       |                         |
| 8       | 2     | 8           | 96.8             | 1740                   | -                      | 7.027416       |                         |
| 9       | 3     | 8           | 80.6             | 1219                   | 1922                   | 7.30186        |                         |
| 10      | 1     | 8           | 55.9             | -                      | -                      | 8.114266       |                         |
| 11      | 2     | 8           | 51.4             | 1098                   | -                      | 8.978478       |                         |
| 12      | 1     | 8           | 73.2             | -                      | -                      | 9.937422       |                         |
| 13      | 3     | 8           | 66.5             | 1958                   | 1563                   | 11.088392      |                         |
| 14      | 1     | 8           | 69.4             | -                      | -                      | 11.680973      |                         |

## 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     | 10          | 53.4             | 1619                   | -                      | 0.355096       | 1                       |
| 1       | 1     | 10          | 78.8             | -                      | -                      | 1.351954       |                         |
| 2       | 2     | 10          | 60.4             | 1605                   | -                      | 1.564233       |                         |
| 3       | 3     | 10          | 73.8             | 1427                   | 1000                   | 2.531525       |                         |
| 4       | 2     | 10          | 53.8             | 1755                   | -                      | 3.476646       |                         |
| 5       | 3     | 10          | 68.2             | 1355                   | 1378                   | 4.470178       |                         |
| 6       | 1     | 10          | 55.1             | -                      | -                      | 5.073095       |                         |
| 7       | 2     | 10          | 64.3             | 1361                   | -                      | 5.33874        |                         |
| 8       | 2     | 10          | 51.8             | 1568                   | -                      | 6.695676       |                         |
| 9       | 1     | 10          | 65.5             | -                      | -                      | 6.85799        |                         |
| 10      | 2     | 10          | 72.9             | 1390                   | -                      | 7.707879       |                         |
| 11      | 1     | 10          | 71.7             | -                      | -                      | 8.690619       |                         |
| 12      | 3     | 10          | 83.4             | 1439                   | 1951                   | 9.691696       |                         |
| 13      | 2     | 10          | 60.7             | 1834                   | -                      | 9.774341       |                         |
| 14      | 2     | 10          | 60.6             | 1597                   | -                      | 10.644822      |                         |
| 15      | 1     | 10          | 90.8             | -                      | -                      | 11.620537      |                         |

## 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     | 14          | 81.3             | 1557                   | -                      | 0.210231       | 1                       |
| 1       | 2     | 14          | 59               | 1517                   | -                      | 1.809817       |                         |
| 2       | 1     | 14          | 70.2             | -                      | -                      | 2.183883       |                         |
| 3       | 1     | 14          | 92.1             | -                      | -                      | 2.914609       |                         |
| 4       | 1     | 14          | 75.2             | -                      | -                      | 4.441382       |                         |
| 5       | 1     | 14          | 70.5             | -                      | -                      | 5.220107       |                         |
| 6       | 2     | 14          | 57.1             | 1999                   | -                      | 5.886098       |                         |
| 7       | 3     | 14          | 88.8             | 1626                   | 1772                   | 6.50994        |                         |
| 8       | 2     | 14          | 71               | 1842                   | -                      | 7.394751       |                         |
| 9       | 3     | 14          | 70.2             | 1860                   | 1332                   | 8.994186       |                         |
| 10      | 2     | 14          | 77.1             | 1839                   | -                      | 9.753339       |                         |
| 11      | 3     | 14          | 91.8             | 1662                   | 1910                   | 11.024373      |                         |
| 12      | 2     | 14          | 65.2             | 1735                   | -                      | 11.743806      |                         |

## Bin5 Statistics 6

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 6           | 76.3             | 1060                   | -                      | 0.519709       | 1                       |
| 1       | 1     | 6           | 84.1             | -                      | -                      | 1.918127       |                         |
| 2       | 2     | 6           | 76.7             | 1039                   | -                      | 2.081511       |                         |
| 3       | 2     | 6           | 75.1             | 1570                   | -                      | 3.515335       |                         |
| 4       | 3     | 6           | 81.5             | 1733                   | 1278                   | 4.254952       |                         |
| 5       | 3     | 6           | 77.7             | 1057                   | 1622                   | 5.61625        |                         |
| 6       | 2     | 6           | 97.6             | 1449                   | -                      | 6.65004        |                         |
| 7       | 1     | 6           | 64.5             | -                      | -                      | 7.345035       |                         |
| 8       | 2     | 6           | 72.4             | 1055                   | -                      | 8.699986       |                         |
| 9       | 3     | 6           | 64.7             | 1557                   | 1678                   | 9.625551       |                         |
| 10      | 2     | 6           | 86.5             | 1924                   | -                      | 10.570256      |                         |
| 11      | 2     | 6           | 73.8             | 1724                   | -                      | 11.795555      |                         |

## 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           | 57.3             | 1136                   | -                      | 0.030599       | 1                       |
| 1       | 2     | 5           | 51.4             | 1895                   | -                      | 1.056004       |                         |
| 2       | 2     | 5           | 53.7             | 1456                   | -                      | 1.994409       |                         |
| 3       | 2     | 5           | 98.1             | 1016                   | -                      | 2.791247       |                         |
| 4       | 3     | 5           | 85               | 1374                   | 1732                   | 3.776817       |                         |
| 5       | 2     | 5           | 59.6             | 1759                   | -                      | 4.529641       |                         |
| 6       | 2     | 5           | 79.3             | 1563                   | -                      | 5.203416       |                         |
| 7       | 3     | 5           | 57.6             | 1945                   | 1063                   | 6.332619       |                         |
| 8       | 2     | 5           | 53.6             | 1507                   | -                      | 7.176456       |                         |
| 9       | 2     | 5           | 56.5             | 1585                   | -                      | 7.842975       |                         |
| 10      | 2     | 5           | 76.4             | 1578                   | -                      | 8.519274       |                         |
| 11      | 1     | 5           | 60.5             | -                      | -                      | 8.878232       |                         |
| 12      | 1     | 5           | 85.4             | -                      | -                      | 10.215242      |                         |
| 13      | 1     | 5           | 88.1             | -                      | -                      | 10.866413      |                         |
| 14      | 3     | 5           | 95.7             | 1257                   | 1044                   | 11.369447      |                         |

## 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     | 10          | 59               | 1865                   | 1853                   | 0.009924       | 1                       |
| 1       | 2     | 10          | 97.5             | 1046                   | -                      | 1.167912       |                         |
| 2       | 3     | 10          | 83.8             | 1403                   | 1983                   | 2.322253       |                         |
| 3       | 1     | 10          | 61.3             | -                      | -                      | 3.636016       |                         |
| 4       | 2     | 10          | 99.7             | 1092                   | -                      | 4.08821        |                         |
| 5       | 2     | 10          | 64.4             | 1278                   | -                      | 4.974787       |                         |
| 6       | 3     | 10          | 65.1             | 1215                   | 1106                   | 5.971409       |                         |
| 7       | 2     | 10          | 90.2             | 1956                   | -                      | 6.865336       |                         |
| 8       | 3     | 10          | 61.3             | 1694                   | 1545                   | 7.589333       |                         |
| 9       | 1     | 10          | 64.8             | -                      | -                      | 8.546986       |                         |
| 10      | 2     | 10          | 72.7             | 1314                   | -                      | 10.051842      |                         |
| 11      | 2     | 10          | 87.7             | 1838                   | -                      | 10.192411      |                         |
| 12      | 2     | 10          | 59.6             | 1421                   | -                      | 11.762238      |                         |

## Bin5 Statistics 9

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 7           | 84.8             | 1144                   | -                      | 1.027566       | 1                       |
| 1       | 3     | 7           | 62.2             | 1396                   | 1073                   | 1.387873       |                         |
| 2       | 3     | 7           | 77.2             | 1144                   | 1003                   | 2.984969       |                         |
| 3       | 1     | 7           | 82               | -                      | -                      | 3.928649       |                         |
| 4       | 1     | 7           | 80.2             | -                      | -                      | 4.833504       |                         |
| 5       | 2     | 7           | 66.9             | 1743                   | -                      | 5.804525       |                         |
| 6       | 3     | 7           | 83.8             | 1704                   | 1483                   | 7.531955       |                         |
| 7       | 2     | 7           | 67.9             | 1579                   | -                      | 7.795086       |                         |
| 8       | 3     | 7           | 57.6             | 1775                   | 1382                   | 9.277022       |                         |
| 9       | 2     | 7           | 88.2             | 1930                   | -                      | 10.36623       |                         |
| 10      | 3     | 7           | 80.1             | 1764                   | 1959                   | 11.001933      |                         |

## Bin5 Statistics 10

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 9           | 98.9             | 1617                   | -                      | 0.359692       | 1                       |
| 1       | 2     | 9           | 54.4             | 1810                   | -                      | 1.218862       |                         |
| 2       | 2     | 9           | 86.2             | 1495                   | -                      | 1.702335       |                         |
| 3       | 3     | 9           | 97.3             | 1455                   | 1652                   | 2.391232       |                         |
| 4       | 3     | 9           | 85               | 1497                   | 1414                   | 3.120802       |                         |
| 5       | 2     | 9           | 84               | 1814                   | -                      | 3.848472       |                         |
| 6       | 3     | 9           | 72.3             | 1119                   | 1081                   | 4.146496       |                         |
| 7       | 3     | 9           | 62.1             | 1330                   | 1396                   | 4.710547       |                         |
| 8       | 1     | 9           | 89.2             | -                      | -                      | 5.781155       |                         |
| 9       | 1     | 9           | 53.9             | -                      | -                      | 6.656412       |                         |
| 10      | 3     | 9           | 67.6             | 1538                   | 1389                   | 6.838059       |                         |
| 11      | 2     | 9           | 72.8             | 1085                   | -                      | 7.923266       |                         |
| 12      | 2     | 9           | 95               | 1549                   | -                      | 8.188916       |                         |
| 13      | 3     | 9           | 94.6             | 1323                   | 1109                   | 9.298267       |                         |
| 14      | 1     | 9           | 78.4             | -                      | -                      | 9.99263        |                         |
| 15      | 2     | 9           | 68.5             | 1600                   | -                      | 10.598         |                         |
| 16      | 2     | 9           | 88.2             | 1073                   | -                      | 10.934965      |                         |
| 17      | 2     | 9           | 94.4             | 1313                   | -                      | 11.850757      |                         |

## Bin5 Statistics 11

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 12          | 63               | -                      | -                      | 1.366932       | 1                       |
| 1       | 2     | 12          | 94               | 1058                   | -                      | 1.544259       |                         |
| 2       | 2     | 12          | 60.5             | 1356                   | -                      | 4.348129       |                         |
| 3       | 2     | 12          | 67.3             | 1678                   | -                      | 5.744747       |                         |
| 4       | 1     | 12          | 61.7             | -                      | -                      | 6.299971       |                         |
| 5       | 3     | 12          | 81.3             | 1347                   | 1081                   | 7.899432       |                         |
| 6       | 3     | 12          | 73.6             | 1445                   | 1006                   | 10.150244      |                         |
| 7       | 3     | 12          | 72.5             | 1253                   | 1067                   | 10.942139      |                         |

## 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     | 10          | 56               | 1339                   | -                      | 0.571007       | 1                       |
| 1       | 3     | 10          | 93.2             | 1196                   | 1841                   | 1.284193       |                         |
| 2       | 2     | 10          | 71.4             | 1106                   | -                      | 2.436229       |                         |
| 3       | 3     | 10          | 78.3             | 1616                   | 1473                   | 2.627664       |                         |
| 4       | 1     | 10          | 73.3             | -                      | -                      | 3.537367       |                         |
| 5       | 3     | 10          | 69.2             | 1581                   | 1419                   | 5.12417        |                         |
| 6       | 3     | 10          | 74.3             | 1251                   | 1172                   | 5.933881       |                         |
| 7       | 1     | 10          | 84.2             | -                      | -                      | 6.251419       |                         |
| 8       | 2     | 10          | 99.1             | 1782                   | -                      | 7.576781       |                         |
| 9       | 1     | 10          | 86.5             | -                      | -                      | 8.025816       |                         |
| 10      | 3     | 10          | 97.8             | 1194                   | 1680                   | 9.193569       |                         |
| 11      | 3     | 10          | 99.4             | 1014                   | 1279                   | 9.981504       |                         |
| 12      | 2     | 10          | 62.4             | 1834                   | -                      | 10.835945      |                         |
| 13      | 1     | 10          | 95.8             | -                      | -                      | 11.376481      |                         |

## 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          | 85.2             | -                      | -                      | 0.333521       | 1                       |
| 1       | 3     | 14          | 86.6             | 1413                   | 1331                   | 1.071491       |                         |
| 2       | 3     | 14          | 79.5             | 1741                   | 1825                   | 1.960132       |                         |
| 3       | 2     | 14          | 97.4             | 1365                   | -                      | 2.20214        |                         |
| 4       | 1     | 14          | 71.5             | -                      | -                      | 3.329129       |                         |
| 5       | 3     | 14          | 83.5             | 1010                   | 1241                   | 3.628527       |                         |
| 6       | 1     | 14          | 90.4             | -                      | -                      | 4.584923       |                         |
| 7       | 1     | 14          | 53.5             | -                      | -                      | 5.060494       |                         |
| 8       | 1     | 14          | 76               | -                      | -                      | 5.990764       |                         |
| 9       | 3     | 14          | 59.1             | 1015                   | 1292                   | 6.449795       |                         |
| 10      | 2     | 14          | 85.1             | 1028                   | -                      | 6.851459       |                         |
| 11      | 2     | 14          | 50.2             | 1405                   | -                      | 7.53406        |                         |
| 12      | 1     | 14          | 72.5             | -                      | -                      | 8.178786       |                         |
| 13      | 1     | 14          | 89.8             | -                      | -                      | 9.271645       |                         |
| 14      | 2     | 14          | 98.3             | 1736                   | -                      | 9.555294       |                         |
| 15      | 2     | 14          | 81.5             | 1350                   | -                      | 10.157448      |                         |
| 16      | 1     | 14          | 92.4             | -                      | -                      | 10.986644      |                         |
| 17      | 2     | 14          | 85.3             | 1850                   | -                      | 11.592386      |                         |

## 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     | 16          | 66.3             | -                      | -                      | 0.437634       | 1                       |
| 1       | 1     | 16          | 96.8             | -                      | -                      | 1.437255       |                         |
| 2       | 1     | 16          | 60.6             | -                      | -                      | 2.732723       |                         |
| 3       | 2     | 16          | 78.3             | 1751                   | -                      | 3.55912        |                         |
| 4       | 3     | 16          | 90.4             | 1626                   | 1875                   | 4.719282       |                         |
| 5       | 2     | 16          | 93.9             | 1893                   | -                      | 5.951115       |                         |
| 6       | 2     | 16          | 71.8             | 1224                   | -                      | 7.391746       |                         |
| 7       | 1     | 16          | 98.6             | -                      | -                      | 8.588985       |                         |
| 8       | 1     | 16          | 90.2             | -                      | -                      | 9.056567       |                         |
| 9       | 3     | 16          | 81.2             | 1643                   | 1754                   | 10.881704      |                         |
| 10      | 2     | 16          | 97.1             | 1667                   | -                      | 11.848152      |                         |

## Bin5 Statistics 15

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 11          | 66               | 1733                   | 1259                   | 0.374612       | 1                       |
| 1       | 2     | 11          | 77.4             | 1242                   | -                      | 1.16943        |                         |
| 2       | 1     | 11          | 55.8             | -                      | -                      | 1.657696       |                         |
| 3       | 2     | 11          | 74.6             | 1610                   | -                      | 2.918497       |                         |
| 4       | 1     | 11          | 66.5             | -                      | -                      | 3.322425       |                         |
| 5       | 2     | 11          | 95.3             | 1727                   | -                      | 4.488795       |                         |
| 6       | 2     | 11          | 65.4             | 1154                   | -                      | 5.173388       |                         |
| 7       | 1     | 11          | 66.2             | -                      | -                      | 5.528388       |                         |
| 8       | 2     | 11          | 55.5             | 1400                   | -                      | 6.646326       |                         |
| 9       | 3     | 11          | 74.9             | 1519                   | 1199                   | 7.245689       |                         |
| 10      | 3     | 11          | 99.3             | 1357                   | 1222                   | 8.000989       |                         |
| 11      | 1     | 11          | 96.8             | -                      | -                      | 8.744207       |                         |
| 12      | 3     | 11          | 90.8             | 1030                   | 1495                   | 9.334096       |                         |
| 13      | 3     | 11          | 98.6             | 1985                   | 1043                   | 10.003501      |                         |
| 14      | 2     | 11          | 63.2             | 1380                   | -                      | 11.149545      |                         |
| 15      | 2     | 11          | 51.2             | 1666                   | -                      | 11.468481      |                         |

## 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     | 9           | 88.9             | 1118                   | -                      | 0.328354       | 1                       |
| 1       | 3     | 9           | 90.8             | 1518                   | 1655                   | 0.76115        |                         |
| 2       | 2     | 9           | 71.2             | 1938                   | -                      | 2.001846       |                         |
| 3       | 3     | 9           | 95.2             | 1679                   | 1099                   | 2.349923       |                         |
| 4       | 3     | 9           | 51.5             | 1365                   | 1397                   | 3.238725       |                         |
| 5       | 1     | 9           | 99.1             | -                      | -                      | 4.046582       |                         |
| 6       | 1     | 9           | 54.9             | -                      | -                      | 4.588964       |                         |
| 7       | 3     | 9           | 92.8             | 1656                   | 1236                   | 5.038155       |                         |
| 8       | 1     | 9           | 77.1             | -                      | -                      | 5.714991       |                         |
| 9       | 2     | 9           | 97.3             | 1216                   | -                      | 6.62223        |                         |
| 10      | 2     | 9           | 50.1             | 1935                   | -                      | 7.081493       |                         |
| 11      | 1     | 9           | 72.7             | -                      | -                      | 8.449911       |                         |
| 12      | 2     | 9           | 67.8             | 1176                   | -                      | 8.717521       |                         |
| 13      | 2     | 9           | 62.7             | 1019                   | -                      | 9.626293       |                         |
| 14      | 3     | 9           | 86.1             | 1666                   | 1987                   | 10.154659      |                         |
| 15      | 2     | 9           | 99.2             | 1847                   | -                      | 10.618655      |                         |
| 16      | 2     | 9           | 66.4             | 1562                   | -                      | 11.630559      |                         |

## 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     | 17          | 84.3             | 1511                   | -                      | 0.083685       | 1                       |
| 1       | 2     | 17          | 81.8             | 1037                   | -                      | 1.729116       |                         |
| 2       | 2     | 17          | 52               | 1756                   | -                      | 3.093883       |                         |
| 3       | 2     | 17          | 76.6             | 1109                   | -                      | 4.793891       |                         |
| 4       | 2     | 17          | 57.2             | 1943                   | -                      | 5.961666       |                         |
| 5       | 1     | 17          | 57.1             | -                      | -                      | 7.059115       |                         |
| 6       | 1     | 17          | 71.9             | -                      | -                      | 7.960696       |                         |
| 7       | 2     | 17          | 54               | 1725                   | -                      | 9.477328       |                         |
| 8       | 2     | 17          | 63.3             | 1650                   | -                      | 9.654491       |                         |
| 9       | 2     | 17          | 77.8             | 1526                   | -                      | 11.348615      |                         |

## 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          | 58.6             | 1428                   | 1611                   | 0.027764       | 1                       |
| 1       | 3     | 12          | 79.5             | 1546                   | 1329                   | 0.968044       |                         |
| 2       | 3     | 12          | 83.6             | 1640                   | 1874                   | 2.506722       |                         |
| 3       | 2     | 12          | 66.1             | 1791                   | -                      | 3.138049       |                         |
| 4       | 1     | 12          | 89.3             | -                      | -                      | 3.759667       |                         |
| 5       | 2     | 12          | 69.5             | 1480                   | -                      | 5.319947       |                         |
| 6       | 2     | 12          | 76.8             | 1174                   | -                      | 5.92415        |                         |
| 7       | 2     | 12          | 73.3             | 1873                   | -                      | 6.609738       |                         |
| 8       | 3     | 12          | 62.7             | 1153                   | 1682                   | 7.469057       |                         |
| 9       | 2     | 12          | 77.3             | 1034                   | -                      | 8.616699       |                         |
| 10      | 1     | 12          | 69.7             | -                      | -                      | 9.819551       |                         |
| 11      | 1     | 12          | 77.1             | -                      | -                      | 10.440562      |                         |
| 12      | 2     | 12          | 66               | 1972                   | -                      | 11.116203      |                         |

## Bin5 Statistics 19

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 6           | 75.8             | 1485                   | -                      | 0.968569       | 1                       |
| 1       | 1     | 6           | 63               | -                      | -                      | 2.068645       |                         |
| 2       | 2     | 6           | 81               | 1095                   | -                      | 3.654002       |                         |
| 3       | 2     | 6           | 73.9             | 1236                   | -                      | 4.969454       |                         |
| 4       | 2     | 6           | 64.9             | 1164                   | -                      | 5.635709       |                         |
| 5       | 2     | 6           | 92.9             | 1597                   | -                      | 7.32896        |                         |
| 6       | 1     | 6           | 77.2             | -                      | -                      | 9.043528       |                         |
| 7       | 2     | 6           | 80.6             | 1539                   | -                      | 9.67562        |                         |
| 8       | 1     | 6           | 95.7             | -                      | -                      | 10.754106      |                         |

## 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     | 16          | 88.3             | 1551                   | -                      | 0.554757       | 1                       |
| 1       | 3     | 16          | 61.7             | 1866                   | 1304                   | 0.704939       |                         |
| 2       | 3     | 16          | 94.6             | 1050                   | 1606                   | 1.74076        |                         |
| 3       | 2     | 16          | 63.5             | 1915                   | -                      | 2.348492       |                         |
| 4       | 2     | 16          | 72.1             | 1449                   | -                      | 2.916798       |                         |
| 5       | 1     | 16          | 70.4             | -                      | -                      | 3.565903       |                         |
| 6       | 3     | 16          | 56.7             | 1466                   | 1222                   | 4.190868       |                         |
| 7       | 2     | 16          | 84.1             | 1203                   | -                      | 4.845051       |                         |
| 8       | 2     | 16          | 50.9             | 1772                   | -                      | 5.888475       |                         |
| 9       | 2     | 16          | 74.8             | 1026                   | -                      | 6.165609       |                         |
| 10      | 2     | 16          | 68.3             | 1498                   | -                      | 6.745447       |                         |
| 11      | 1     | 16          | 57.2             | -                      | -                      | 7.448301       |                         |
| 12      | 1     | 16          | 90.6             | -                      | -                      | 8.386967       |                         |
| 13      | 1     | 16          | 54               | -                      | -                      | 9.251458       |                         |
| 14      | 2     | 16          | 70.7             | 1801                   | -                      | 9.719681       |                         |
| 15      | 1     | 16          | 95.4             | -                      | -                      | 10.417542      |                         |
| 16      | 1     | 16          | 69.2             | -                      | -                      | 10.695109      |                         |
| 17      | 1     | 16          | 72.8             | -                      | -                      | 11.786907      |                         |

## Bin5 Statistics 21

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 11          | 87.1             | 1425                   | 1777                   | 1.007762       | 1                       |
| 1       | 1     | 11          | 90.2             | -                      | -                      | 1.678413       |                         |
| 2       | 1     | 11          | 88.7             | -                      | -                      | 2.795321       |                         |
| 3       | 2     | 11          | 93.8             | 1537                   | -                      | 4.107912       |                         |
| 4       | 3     | 11          | 68.3             | 1913                   | 1978                   | 6.24272        |                         |
| 5       | 2     | 11          | 73.3             | 1233                   | -                      | 7.255842       |                         |
| 6       | 1     | 11          | 62.8             | -                      | -                      | 8.965361       |                         |
| 7       | 2     | 11          | 67.9             | 1806                   | -                      | 10.194629      |                         |
| 8       | 1     | 11          | 94.7             | -                      | -                      | 11.272059      |                         |

## 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     | 18          | 58.7             | 1201                   | 1773                   | 0.160069       | 1                       |
| 1       | 2     | 18          | 88.7             | 1094                   | -                      | 1.142008       |                         |
| 2       | 2     | 18          | 70.7             | 1170                   | -                      | 1.431807       |                         |
| 3       | 3     | 18          | 99.9             | 1819                   | 1829                   | 2.087837       |                         |
| 4       | 2     | 18          | 75.1             | 1091                   | -                      | 2.859947       |                         |
| 5       | 2     | 18          | 86.8             | 1563                   | -                      | 3.351903       |                         |
| 6       | 1     | 18          | 69.1             | -                      | -                      | 3.847733       |                         |
| 7       | 1     | 18          | 69               | -                      | -                      | 4.336646       |                         |
| 8       | 1     | 18          | 63.2             | -                      | -                      | 4.946565       |                         |
| 9       | 3     | 18          | 82.3             | 1867                   | 1287                   | 5.581604       |                         |
| 10      | 2     | 18          | 97.2             | 1394                   | -                      | 6.263533       |                         |
| 11      | 2     | 18          | 54.7             | 1220                   | -                      | 6.91326        |                         |
| 12      | 2     | 18          | 97.4             | 1650                   | -                      | 7.619073       |                         |
| 13      | 2     | 18          | 83.8             | 1547                   | -                      | 8.379324       |                         |
| 14      | 2     | 18          | 54.2             | 1747                   | -                      | 8.410195       |                         |
| 15      | 3     | 18          | 81.1             | 1922                   | 1110                   | 9.064319       |                         |
| 16      | 3     | 18          | 91.4             | 1406                   | 1104                   | 9.60482        |                         |
| 17      | 3     | 18          | 70.2             | 1715                   | 1097                   | 10.407879      |                         |
| 18      | 2     | 18          | 72.6             | 1310                   | -                      | 11.337343      |                         |
| 19      | 2     | 18          | 78.1             | 1355                   | -                      | 11.461964      |                         |

## 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          | 97.9             | 1581                   | -                      | 0.000437       | 1                       |
| 1       | 1     | 14          | 99.4             | -                      | -                      | 0.972348       |                         |
| 2       | 3     | 14          | 72.6             | 1763                   | 1398                   | 2.032094       |                         |
| 3       | 2     | 14          | 94.9             | 1812                   | -                      | 2.293491       |                         |
| 4       | 3     | 14          | 99.5             | 1107                   | 1025                   | 3.01636        |                         |
| 5       | 2     | 14          | 82               | 1283                   | -                      | 3.678004       |                         |
| 6       | 2     | 14          | 74.5             | 1008                   | -                      | 4.839733       |                         |
| 7       | 2     | 14          | 89.5             | 1773                   | -                      | 5.034123       |                         |
| 8       | 2     | 14          | 71.8             | 1532                   | -                      | 5.662283       |                         |
| 9       | 1     | 14          | 88.2             | -                      | -                      | 6.669609       |                         |
| 10      | 2     | 14          | 98.6             | 1210                   | -                      | 7.681858       |                         |
| 11      | 3     | 14          | 86.1             | 1430                   | 1089                   | 7.891969       |                         |
| 12      | 2     | 14          | 68.6             | 1206                   | -                      | 8.702209       |                         |
| 13      | 1     | 14          | 99.8             | -                      | -                      | 9.771162       |                         |
| 14      | 2     | 14          | 76.5             | 1425                   | -                      | 10.210867      |                         |
| 15      | 2     | 14          | 80.2             | 1421                   | -                      | 10.802089      |                         |
| 16      | 2     | 14          | 85.8             | 1636                   | -                      | 11.733828      |                         |

## 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     | 8           | 55.5             | -                      | -                      | 1.318499       | 1                       |
| 1       | 2     | 8           | 54.2             | 1625                   | -                      | 1.622781       |                         |
| 2       | 3     | 8           | 70.7             | 1773                   | 1723                   | 4.302295       |                         |
| 3       | 2     | 8           | 88.2             | 1473                   | -                      | 4.868305       |                         |
| 4       | 1     | 8           | 96.2             | -                      | -                      | 6.40386        |                         |
| 5       | 1     | 8           | 54.4             | -                      | -                      | 8.255398       |                         |
| 6       | 2     | 8           | 50.4             | 1740                   | -                      | 9.51443        |                         |
| 7       | 2     | 8           | 90.8             | 1552                   | -                      | 10.752573      |                         |

## 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     | 10          | 80.1             | 1751                   | -                      | 0.142201       | 0                       |
| 1       | 2     | 10          | 96               | 1001                   | -                      | 2.417114       |                         |
| 2       | 3     | 10          | 60.3             | 1278                   | 1094                   | 3.405813       |                         |
| 3       | 3     | 10          | 97.3             | 1078                   | 1030                   | 4.665839       |                         |
| 4       | 2     | 10          | 68.9             | 1092                   | -                      | 6.288562       |                         |
| 5       | 2     | 10          | 85               | 1007                   | -                      | 8.349772       |                         |
| 6       | 3     | 10          | 93.3             | 1504                   | 1474                   | 9.511346       |                         |
| 7       | 2     | 10          | 79.7             | 1350                   | -                      | 11.187901      |                         |

## 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       | 3     | 14          | 52.6             | 1827                   | 1551                   | 1.057254       | 1                       |
| 1       | 1     | 14          | 71.3             | -                      | -                      | 1.458318       |                         |
| 2       | 2     | 14          | 69.9             | 1450                   | -                      | 2.713075       |                         |
| 3       | 2     | 14          | 88.4             | 1695                   | -                      | 4.538857       |                         |
| 4       | 3     | 14          | 51.2             | 1351                   | 1530                   | 5.487201       |                         |
| 5       | 2     | 14          | 60.4             | 1394                   | -                      | 6.673744       |                         |
| 6       | 3     | 14          | 62               | 1983                   | 1411                   | 7.885134       |                         |
| 7       | 3     | 14          | 79               | 1686                   | 1381                   | 8.8734         |                         |
| 8       | 2     | 14          | 88.5             | 1550                   | -                      | 10.683025      |                         |
| 9       | 2     | 14          | 77.7             | 1196                   | -                      | 11.089462      |                         |

## Bin5 Statistics 27

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 7           | 63.9             | -                      | -                      | 0.831471       | 1                       |
| 1       | 1     | 7           | 51.7             | -                      | -                      | 1.648523       |                         |
| 2       | 1     | 7           | 79.4             | -                      | -                      | 1.853179       |                         |
| 3       | 2     | 7           | 58.3             | 1873                   | -                      | 3.455866       |                         |
| 4       | 3     | 7           | 94.9             | 1002                   | 1817                   | 4.188977       |                         |
| 5       | 2     | 7           | 78.7             | 1020                   | -                      | 4.749136       |                         |
| 6       | 2     | 7           | 69.2             | 1831                   | -                      | 6.40337        |                         |
| 7       | 1     | 7           | 68.8             | -                      | -                      | 7.372563       |                         |
| 8       | 3     | 7           | 82.4             | 1041                   | 1119                   | 8.145837       |                         |
| 9       | 3     | 7           | 62.7             | 1932                   | 1668                   | 9.118745       |                         |
| 10      | 1     | 7           | 75.7             | -                      | -                      | 9.874352       |                         |
| 11      | 2     | 7           | 80.6             | 1174                   | -                      | 10.411557      |                         |
| 12      | 2     | 7           | 51.4             | 1583                   | -                      | 11.910885      |                         |

## 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     | 7           | 87.5             | 1618                   | -                      | 0.922349       | 1                       |
| 1       | 2     | 7           | 61.5             | 1712                   | -                      | 1.584622       |                         |
| 2       | 2     | 7           | 71.3             | 1448                   | -                      | 3.079243       |                         |
| 3       | 2     | 7           | 94.5             | 1749                   | -                      | 3.830705       |                         |
| 4       | 3     | 7           | 59.2             | 1171                   | 1139                   | 4.392793       |                         |
| 5       | 2     | 7           | 81.4             | 1059                   | -                      | 5.902306       |                         |
| 6       | 3     | 7           | 86.1             | 1158                   | 1742                   | 7.374112       |                         |
| 7       | 1     | 7           | 75.4             | -                      | -                      | 8.01452        |                         |
| 8       | 3     | 7           | 93               | 1620                   | 1705                   | 9.365698       |                         |
| 9       | 1     | 7           | 59               | -                      | -                      | 10.228838      |                         |
| 10      | 2     | 7           | 70.5             | 1178                   | -                      | 11.845204      |                         |

## 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     | 6           | 90.7             | 1991                   | 1722                   | 0.36441        | 1                       |
| 1       | 2     | 6           | 97.9             | 1014                   | -                      | 0.730022       |                         |
| 2       | 3     | 6           | 93.4             | 1158                   | 1037                   | 1.447397       |                         |
| 3       | 2     | 6           | 51.9             | 1828                   | -                      | 1.981218       |                         |
| 4       | 3     | 6           | 56.5             | 1707                   | 1183                   | 2.862327       |                         |
| 5       | 2     | 6           | 56.9             | 1553                   | -                      | 3.443601       |                         |
| 6       | 1     | 6           | 91.7             | -                      | -                      | 3.925547       |                         |
| 7       | 1     | 6           | 62.7             | -                      | -                      | 4.213222       |                         |
| 8       | 2     | 6           | 81               | 1945                   | -                      | 4.942955       |                         |
| 9       | 2     | 6           | 61.9             | 1320                   | -                      | 5.893404       |                         |
| 10      | 1     | 6           | 60.7             | -                      | -                      | 6.392749       |                         |
| 11      | 1     | 6           | 67.7             | -                      | -                      | 6.617808       |                         |
| 12      | 3     | 6           | 89               | 1056                   | 1565                   | 7.55127        |                         |
| 13      | 1     | 6           | 59.2             | -                      | -                      | 8.026257       |                         |
| 14      | 2     | 6           | 73.8             | 1398                   | -                      | 8.594486       |                         |
| 15      | 3     | 6           | 57.4             | 1916                   | 1723                   | 9.082254       |                         |
| 16      | 1     | 6           | 52.7             | -                      | -                      | 10.055294      |                         |
| 17      | 2     | 6           | 76               | 1618                   | -                      | 10.596426      |                         |
| 18      | 3     | 6           | 71.5             | 1455                   | 1758                   | 11.364483      |                         |
| 19      | 3     | 6           | 86.9             | 1166                   | 1804                   | 11.438768      |                         |

## Bin5 Statistics 30

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 19          | 62.6             | 1372                   | -                      | 0.974223       | 1                       |
| 1       | 2     | 19          | 59.5             | 1874                   | -                      | 2.532096       |                         |
| 2       | 1     | 19          | 96.1             | -                      | -                      | 3.33315        |                         |
| 3       | 2     | 19          | 89.2             | 1725                   | -                      | 4.824567       |                         |
| 4       | 3     | 19          | 53.4             | 1433                   | 1008                   | 6.423042       |                         |
| 5       | 2     | 19          | 54.3             | 1404                   | -                      | 7.363015       |                         |
| 6       | 2     | 19          | 87.3             | 1278                   | -                      | 9.255574       |                         |
| 7       | 1     | 19          | 78               | -                      | -                      | 9.45182        |                         |
| 8       | 1     | 19          | 86.8             | -                      | -                      | 11.621077      |                         |

**Table-6 Radar Type 6 Statistical Performance**

| <b>Trial #</b> | <b>Fc (MHz)</b> | <b>Pulse /Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> | <b>Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------|-----------------|---------------------|-------------------------|-----------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 5500            | 9                   | 1                       | 333             | 1                              | 5488.0, 5574.0, 5483.0, 5407.0, 5631.0, 5424.0, 5348.0, 5585.0, 5288.0, 5356.0, 5333.0, 5714.0, 5612.0, 5263.0, 5650.0, 5365.0, 5505.0, 5531.0, 5572.0, 5289.0, 5412.0, 5283.0, 5512.0, 5444.0, 5518.0, 5294.0, 5435.0, 5408.0, 5494.0, 5367.0, 5695.0, 5271.0, 5548.0, 5620.0, 5461.0, 5545.0, 5323.0, 5690.0, 5433.0, 5710.0, 5391.0, 5588.0, 5625.0, 5665.0, 5630.0, 5502.0, 5320.0, 5432.0, 5655.0, 5415.0, 5465.0, 5431.0, 5366.0, 5421.0, 5330.0, 5658.0, 5425.0, 5654.0, 5253.0, 5274.0, 5651.0, 5689.0, 5368.0, 5438.0, 5360.0, 5383.0, 5272.0, 5698.0, 5262.0, 5618.0, 5606.0, 5536.0, 5463.0, 5440.0, 5558.0, 5376.0, 5439.0, 5723.0, 5481.0, 5357.0, 5587.0, 5582.0, 5456.0, 5694.0, 5664.0, 5299.0, 5688.0, 5306.0, 5316.0, 5447.0, 5358.0, 5413.0, 5387.0, 5273.0, 5674.0, 5442.0, 5716.0, 5527.0, 5339.0, 5623.0<br>(number of hits: 3 ) |
| 2              | 5500            | 9                   | 1                       | 333             | 1                              | 5276.0, 5617.0, 5339.0, 5714.0, 5574.0, 5649.0, 5320.0, 5484.0, 5702.0, 5535.0, 5562.0, 5268.0, 5597.0, 5523.0, 5450.0, 5724.0, 5473.0, 5511.0, 5348.0, 5395.0, 5407.0, 5444.0, 5273.0, 5303.0, 5463.0, 5662.0, 5650.0, 5474.0, 5464.0, 5622.0, 5693.0, 5396.0, 5552.0, 5351.0, 5305.0, 5252.0, 5655.0, 5327.0, 5547.0, 5431.0, 5661.0, 5539.0, 5459.0, 5711.0, 5271.0, 5490.0, 5374.0, 5482.0, 5496.0, 5377.0, 5406.0, 5634.0, 5386.0, 5412.0, 5272.0, 5681.0, 5380.0, 5667.0, 5532.0, 5318.0, 5572.0, 5614.0, 5296.0, 5461.0, 5388.0, 5640.0, 5627.0, 5302.0, 5338.0, 5401.0, 5703.0, 5698.0, 5615.0, 5537.0, 5585.0, 5312.0, 5544.0, 5561.0, 5632.0, 5612.0, 5642.0, 5671.0, 5373.0, 5493.0, 5325.0, 5425.0, 5556.0, 5314.0, 5637.0, 5559.0, 5435.0, 5460.0, 5259.0, 5336.0, 5571.0, 5720.0, 5448.0, 5256.0, 5687.0, 5332.0<br>(number of hits: 2 ) |
| 3              | 5500            | 9                   | 1                       | 333             | 1                              | 5569.0, 5452.0, 5402.0, 5411.0, 5437.0, 5380.0, 5394.0, 5661.0, 5677.0, 5414.0, 5691.0, 5644.0, 5480.0, 5269.0, 5622.0, 5379.0, 5444.0, 5702.0, 5580.0, 5529.0, 5508.0, 5562.0, 5659.0, 5523.0, 5333.0, 5673.0, 5461.0, 5718.0, 5372.0, 5395.0, 5334.0, 5724.0, 5703.0, 5540.0, 5421.0, 5597.0, 5409.0, 5637.0, 5599.0, 5456.0, 5410.0, 5610.0, 5668.0, 5587.0, 5628.0, 5476.0, 5422.0, 5350.0, 5483.0, 5361.0, 5649.0, 5459.0, 5404.0, 5325.0, 5371.0, 5634.0, 5484.0, 5708.0, 5366.0, 5567.0,                                                                                                                                                                                                                                                                                                                                                        |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5463.0, 5516.0, 5692.0, 5436.0, 5715.0, 5687.0, 5306.0, 5428.0, 5595.0, 5530.0, 5642.0, 5631.0, 5335.0, 5399.0, 5502.0, 5613.0, 5351.0, 5635.0, 5317.0, 5423.0, 5416.0, 5602.0, 5364.0, 5474.0, 5532.0, 5473.0, 5723.0, 5342.0, 5711.0, 5477.0, 5627.0, 5368.0, 5626.0, 5331.0, 5253.0, 5679.0, 5719.0, 5497.0, 5363.0, 5419.0<br>(number of hits: 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4 | 5500 | 9 | 1 | 333 | 1 | 5292.0, 5581.0, 5506.0, 5468.0, 5570.0, 5447.0, 5678.0, 5282.0, 5675.0, 5403.0, 5565.0, 5448.0, 5611.0, 5404.0, 5487.0, 5638.0, 5334.0, 5555.0, 5319.0, 5455.0, 5659.0, 5433.0, 5596.0, 5469.0, 5423.0, 5529.0, 5381.0, 5276.0, 5556.0, 5328.0, 5517.0, 5670.0, 5384.0, 5601.0, 5648.0, 5297.0, 5360.0, 5353.0, 5608.0, 5256.0, 5357.0, 5662.0, 5363.0, 5426.0, 5711.0, 5303.0, 5677.0, 5537.0, 5705.0, 5661.0, 5518.0, 5617.0, 5425.0, 5291.0, 5491.0, 5590.0, 5320.0, 5640.0, 5522.0, 5509.0, 5325.0, 5515.0, 5311.0, 5321.0, 5692.0, 5524.0, 5386.0, 5714.0, 5528.0, 5618.0, 5258.0, 5475.0, 5466.0, 5713.0, 5685.0, 5377.0, 5445.0, 5378.0, 5642.0, 5495.0, 5385.0, 5571.0, 5457.0, 5533.0, 5699.0, 5577.0, 5508.0, 5688.0, 5569.0, 5391.0, 5375.0, 5641.0, 5315.0, 5673.0, 5626.0, 5358.0, 5317.0, 5559.0, 5422.0, 5526.0<br>(number of hits: 4) |
| 5 | 5500 | 9 | 1 | 333 | 1 | 5489.0, 5450.0, 5472.0, 5471.0, 5500.0, 5608.0, 5620.0, 5269.0, 5369.0, 5477.0, 5660.0, 5664.0, 5372.0, 5417.0, 5560.0, 5520.0, 5712.0, 5618.0, 5406.0, 5647.0, 5668.0, 5332.0, 5573.0, 5535.0, 5386.0, 5273.0, 5498.0, 5667.0, 5561.0, 5475.0, 5274.0, 5611.0, 5612.0, 5356.0, 5399.0, 5279.0, 5270.0, 5657.0, 5721.0, 5331.0, 5488.0, 5414.0, 5469.0, 5373.0, 5501.0, 5428.0, 5254.0, 5637.0, 5330.0, 5571.0, 5281.0, 5380.0, 5346.0, 5384.0, 5325.0, 5271.0, 5411.0, 5533.0, 5511.0, 5652.0, 5602.0, 5625.0, 5594.0, 5513.0, 5585.0, 5264.0, 5629.0, 5390.0, 5658.0, 5718.0, 5392.0, 5586.0, 5462.0, 5443.0, 5387.0, 5720.0, 5272.0, 5485.0, 5408.0, 5723.0, 5334.0, 5546.0, 5348.0, 5318.0, 5703.0, 5280.0, 5507.0, 5283.0, 5622.0, 5528.0, 5494.0, 5377.0, 5687.0, 5583.0, 5635.0, 5492.0, 5382.0, 5427.0, 5295.0, 5568.0<br>(number of hits: 6) |
| 6 | 5500 | 9 | 1 | 333 | 1 | 5560.0, 5336.0, 5538.0, 5359.0, 5451.0, 5624.0, 5280.0, 5579.0, 5431.0, 5428.0, 5472.0, 5676.0, 5695.0, 5577.0, 5657.0, 5541.0, 5692.0, 5353.0, 5312.0, 5505.0, 5460.0, 5570.0, 5390.0, 5723.0, 5347.0, 5354.0, 5551.0, 5331.0, 5669.0, 5643.0, 5609.0, 5544.0, 5614.0, 5633.0, 5698.0, 5508.0, 5680.0, 5647.0, 5700.0, 5262.0, 5476.0, 5368.0, 5371.0, 5282.0, 5301.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5563.0, 5671.0, 5575.0, 5492.0, 5533.0, 5572.0, 5344.0, 5689.0, 5682.0, 5254.0, 5384.0, 5448.0, 5588.0, 5590.0, 5382.0, 5395.0, 5351.0, 5397.0, 5364.0, 5620.0, 5521.0, 5437.0, 5361.0, 5263.0, 5683.0, 5717.0, 5450.0, 5642.0, 5718.0, 5293.0, 5547.0, 5545.0, 5491.0, 5290.0, 5548.0, 5713.0, 5536.0, 5504.0, 5387.0, 5412.0, 5419.0, 5512.0, 5576.0, 5325.0, 5569.0, 5585.0, 5518.0, 5327.0, 5485.0, 5566.0, 5338.0, 5537.0, 5564.0, 5595.0, 5333.0<br>(number of hits: 5)                                                                                                                                                                                                                                                                                                                                                                         |
| 7 | 5500 | 9 | 1 | 333 | 1 | 5672.0, 5333.0, 5496.0, 5339.0, 5341.0, 5323.0, 5265.0, 5497.0, 5270.0, 5668.0, 5525.0, 5545.0, 5429.0, 5311.0, 5380.0, 5403.0, 5466.0, 5387.0, 5715.0, 5634.0, 5512.0, 5349.0, 5434.0, 5345.0, 5514.0, 5540.0, 5389.0, 5664.0, 5423.0, 5680.0, 5495.0, 5621.0, 5508.0, 5404.0, 5596.0, 5374.0, 5335.0, 5679.0, 5614.0, 5253.0, 5391.0, 5607.0, 5635.0, 5256.0, 5722.0, 5295.0, 5260.0, 5692.0, 5599.0, 5532.0, 5563.0, 5552.0, 5509.0, 5261.0, 5681.0, 5632.0, 5329.0, 5516.0, 5396.0, 5498.0, 5628.0, 5529.0, 5353.0, 5561.0, 5351.0, 5714.0, 5581.0, 5716.0, 5301.0, 5384.0, 5539.0, 5548.0, 5285.0, 5257.0, 5602.0, 5677.0, 5556.0, 5564.0, 5468.0, 5582.0, 5317.0, 5595.0, 5623.0, 5483.0, 5459.0, 5359.0, 5616.0, 5420.0, 5584.0, 5555.0, 5437.0, 5294.0, 5588.0, 5511.0, 5258.0, 5401.0, 5455.0, 5491.0, 5456.0, 5289.0<br>(number of hits: 6) |
| 8 | 5500 | 9 | 1 | 333 | 1 | 5531.0, 5286.0, 5574.0, 5442.0, 5600.0, 5607.0, 5322.0, 5434.0, 5596.0, 5575.0, 5277.0, 5470.0, 5718.0, 5618.0, 5705.0, 5627.0, 5644.0, 5253.0, 5613.0, 5532.0, 5392.0, 5553.0, 5609.0, 5580.0, 5304.0, 5370.0, 5658.0, 5583.0, 5460.0, 5689.0, 5358.0, 5637.0, 5515.0, 5452.0, 5429.0, 5556.0, 5508.0, 5564.0, 5566.0, 5379.0, 5501.0, 5252.0, 5653.0, 5662.0, 5468.0, 5720.0, 5388.0, 5584.0, 5283.0, 5308.0, 5292.0, 5516.0, 5700.0, 5315.0, 5454.0, 5426.0, 5421.0, 5289.0, 5284.0, 5261.0, 5642.0, 5352.0, 5483.0, 5628.0, 5571.0, 5519.0, 5414.0, 5599.0, 5617.0, 5440.0, 5536.0, 5544.0, 5510.0, 5448.0, 5612.0, 5535.0, 5294.0, 5646.0, 5267.0, 5677.0, 5463.0, 5529.0, 5400.0, 5605.0, 5626.0, 5624.0, 5266.0, 5623.0, 5337.0, 5660.0, 5353.0, 5682.0, 5345.0, 5321.0, 5383.0, 5696.0, 5520.0, 5355.0, 5692.0, 5582.0<br>(number of hits: 2) |
| 9 | 5500 | 9 | 1 | 333 | 1 | 5302.0, 5433.0, 5270.0, 5523.0, 5257.0, 5655.0, 5647.0, 5304.0, 5266.0, 5366.0, 5335.0, 5600.0, 5698.0, 5456.0, 5679.0, 5587.0, 5616.0, 5515.0, 5319.0, 5594.0, 5264.0, 5445.0, 5685.0, 5328.0, 5464.0, 5660.0, 5537.0, 5446.0, 5413.0, 5308.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5290.0, 5468.0, 5630.0, 5305.0, 5415.0, 5566.0, 5717.0, 5385.0, 5596.0, 5636.0, 5605.0, 5389.0, 5291.0, 5359.0, 5407.0, 5683.0, 5475.0, 5336.0, 5639.0, 5320.0, 5588.0, 5375.0, 5689.0, 5321.0, 5580.0, 5499.0, 5361.0, 5352.0, 5341.0, 5665.0, 5288.0, 5693.0, 5640.0, 5455.0, 5548.0, 5253.0, 5459.0, 5388.0, 5549.0, 5391.0, 5661.0, 5490.0, 5373.0, 5516.0, 5706.0, 5414.0, 5643.0, 5554.0, 5480.0, 5517.0, 5591.0, 5672.0, 5482.0, 5438.0, 5686.0, 5536.0, 5497.0, 5369.0, 5622.0, 5273.0, 5642.0, 5326.0, 5447.0, 5441.0, 5365.0, 5356.0, 5451.0, 5610.0, 5539.0, 5250.0<br>(number of hits: 2 )                                                                                                                                                                                                                                                 |
| 10 | 5500 | 9 | 1 | 333 | 1 | 5507.0, 5515.0, 5348.0, 5301.0, 5535.0, 5270.0, 5658.0, 5670.0, 5332.0, 5318.0, 5337.0, 5398.0, 5383.0, 5424.0, 5350.0, 5609.0, 5514.0, 5402.0, 5659.0, 5448.0, 5262.0, 5314.0, 5397.0, 5648.0, 5620.0, 5396.0, 5662.0, 5303.0, 5281.0, 5661.0, 5684.0, 5683.0, 5434.0, 5353.0, 5640.0, 5626.0, 5334.0, 5423.0, 5446.0, 5282.0, 5508.0, 5351.0, 5608.0, 5323.0, 5549.0, 5618.0, 5567.0, 5581.0, 5723.0, 5701.0, 5295.0, 5482.0, 5379.0, 5531.0, 5722.0, 5604.0, 5592.0, 5542.0, 5638.0, 5717.0, 5354.0, 5466.0, 5420.0, 5360.0, 5404.0, 5711.0, 5499.0, 5490.0, 5562.0, 5470.0, 5254.0, 5615.0, 5256.0, 5593.0, 5315.0, 5310.0, 5451.0, 5586.0, 5687.0, 5496.0, 5359.0, 5554.0, 5553.0, 5635.0, 5673.0, 5321.0, 5264.0, 5299.0, 5411.0, 5614.0, 5476.0, 5472.0, 5634.0, 5344.0, 5709.0, 5341.0, 5637.0, 5421.0, 5491.0, 5284.0<br>(number of hits: 5 ) |
| 11 | 5500 | 9 | 1 | 333 | 1 | 5498.0, 5668.0, 5670.0, 5630.0, 5713.0, 5586.0, 5293.0, 5280.0, 5722.0, 5318.0, 5465.0, 5689.0, 5637.0, 5592.0, 5413.0, 5466.0, 5365.0, 5629.0, 5411.0, 5698.0, 5353.0, 5343.0, 5337.0, 5718.0, 5432.0, 5352.0, 5605.0, 5542.0, 5358.0, 5401.0, 5568.0, 5440.0, 5422.0, 5667.0, 5502.0, 5309.0, 5268.0, 5507.0, 5397.0, 5598.0, 5476.0, 5311.0, 5303.0, 5685.0, 5415.0, 5251.0, 5663.0, 5447.0, 5574.0, 5487.0, 5403.0, 5572.0, 5348.0, 5314.0, 5354.0, 5578.0, 5368.0, 5634.0, 5330.0, 5724.0, 5319.0, 5258.0, 5281.0, 5299.0, 5278.0, 5399.0, 5501.0, 5534.0, 5593.0, 5359.0, 5408.0, 5486.0, 5389.0, 5577.0, 5708.0, 5551.0, 5652.0, 5406.0, 5603.0, 5485.0, 5679.0, 5504.0, 5392.0, 5674.0, 5644.0, 5448.0, 5341.0, 5350.0, 5584.0, 5257.0, 5530.0, 5571.0, 5716.0, 5612.0, 5535.0, 5588.0, 5398.0, 5344.0, 5526.0, 5523.0<br>(number of hits: 5 ) |
| 12 | 5500 | 9 | 1 | 333 | 1 | 5308.0, 5395.0, 5426.0, 5583.0, 5706.0, 5393.0, 5527.0, 5328.0, 5610.0, 5423.0, 5294.0, 5511.0, 5420.0, 5276.0, 5338.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5673.0, 5516.0, 5493.0, 5489.0, 5352.0, 5281.0, 5391.0, 5413.0, 5459.0, 5402.0, 5522.0, 5675.0, 5405.0, 5586.0, 5422.0, 5720.0, 5444.0, 5628.0, 5607.0, 5304.0, 5647.0, 5645.0, 5574.0, 5400.0, 5517.0, 5596.0, 5358.0, 5359.0, 5404.0, 5442.0, 5633.0, 5713.0, 5366.0, 5336.0, 5280.0, 5377.0, 5451.0, 5411.0, 5614.0, 5457.0, 5536.0, 5449.0, 5510.0, 5394.0, 5494.0, 5415.0, 5292.0, 5556.0, 5718.0, 5300.0, 5540.0, 5272.0, 5642.0, 5487.0, 5627.0, 5469.0, 5373.0, 5701.0, 5502.0, 5322.0, 5501.0, 5306.0, 5343.0, 5514.0, 5710.0, 5424.0, 5291.0, 5565.0, 5590.0, 5491.0, 5663.0, 5520.0, 5374.0, 5360.0, 5703.0, 5433.0, 5313.0, 5564.0, 5481.0, 5430.0, 5378.0, 5676.0, 5700.0, 5455.0, 5316.0<br>(number of hits: 5 )                                                                                                                         |
| 13 | 5500 | 9 | 1 | 333 | 1 | 5388.0, 5425.0, 5405.0, 5588.0, 5646.0, 5460.0, 5573.0, 5409.0, 5367.0, 5458.0, 5636.0, 5691.0, 5555.0, 5559.0, 5427.0, 5641.0, 5696.0, 5343.0, 5595.0, 5461.0, 5355.0, 5286.0, 5548.0, 5671.0, 5366.0, 5518.0, 5497.0, 5561.0, 5323.0, 5634.0, 5642.0, 5302.0, 5705.0, 5465.0, 5590.0, 5657.0, 5704.0, 5429.0, 5293.0, 5263.0, 5267.0, 5484.0, 5256.0, 5630.0, 5432.0, 5635.0, 5493.0, 5512.0, 5633.0, 5309.0, 5452.0, 5585.0, 5505.0, 5583.0, 5259.0, 5669.0, 5510.0, 5471.0, 5594.0, 5380.0, 5298.0, 5605.0, 5275.0, 5660.0, 5628.0, 5587.0, 5539.0, 5394.0, 5532.0, 5443.0, 5483.0, 5342.0, 5581.0, 5359.0, 5582.0, 5400.0, 5442.0, 5550.0, 5540.0, 5593.0, 5715.0, 5467.0, 5665.0, 5499.0, 5353.0, 5480.0, 5503.0, 5337.0, 5433.0, 5365.0, 5474.0, 5327.0, 5623.0, 5482.0, 5295.0, 5701.0, 5352.0, 5376.0, 5424.0, 5536.0<br>(number of hits: 5 ) |
| 14 | 5500 | 9 | 1 | 333 | 1 | 5454.0, 5683.0, 5495.0, 5339.0, 5649.0, 5593.0, 5554.0, 5491.0, 5338.0, 5492.0, 5333.0, 5307.0, 5371.0, 5374.0, 5384.0, 5653.0, 5650.0, 5302.0, 5415.0, 5280.0, 5426.0, 5296.0, 5486.0, 5634.0, 5642.0, 5283.0, 5471.0, 5356.0, 5400.0, 5500.0, 5292.0, 5319.0, 5694.0, 5366.0, 5707.0, 5630.0, 5550.0, 5334.0, 5324.0, 5712.0, 5368.0, 5519.0, 5385.0, 5684.0, 5641.0, 5294.0, 5287.0, 5289.0, 5685.0, 5659.0, 5464.0, 5579.0, 5363.0, 5689.0, 5668.0, 5403.0, 5638.0, 5251.0, 5699.0, 5704.0, 5483.0, 5341.0, 5548.0, 5379.0, 5565.0, 5625.0, 5443.0, 5639.0, 5693.0, 5669.0, 5362.0, 5461.0, 5376.0, 5297.0, 5387.0, 5586.0, 5306.0, 5343.0, 5275.0, 5717.0, 5266.0, 5414.0, 5427.0, 5442.0, 5620.0, 5701.0, 5459.0, 5273.0, 5382.0, 5603.0, 5360.0, 5658.0, 5696.0, 5375.0, 5441.0, 5279.0, 5438.0, 5404.0, 5542.0, 5661.0<br>(number of hits: 4 ) |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | 5500 | 9 | 1 | 333 | 1 | 5307.0, 5695.0, 5430.0, 5256.0, 5509.0, 5363.0, 5724.0, 5517.0, 5713.0, 5354.0, 5481.0, 5302.0, 5390.0, 5527.0, 5626.0, 5427.0, 5443.0, 5662.0, 5316.0, 5366.0, 5670.0, 5462.0, 5622.0, 5267.0, 5346.0, 5418.0, 5550.0, 5597.0, 5581.0, 5442.0, 5589.0, 5333.0, 5380.0, 5635.0, 5604.0, 5464.0, 5329.0, 5310.0, 5468.0, 5674.0, 5560.0, 5349.0, 5330.0, 5258.0, 5406.0, 5593.0, 5345.0, 5592.0, 5603.0, 5679.0, 5360.0, 5643.0, 5368.0, 5262.0, 5530.0, 5490.0, 5653.0, 5705.0, 5434.0, 5362.0, 5401.0, 5339.0, 5642.0, 5716.0, 5381.0, 5486.0, 5254.0, 5369.0, 5720.0, 5564.0, 5513.0, 5285.0, 5384.0, 5292.0, 5659.0, 5673.0, 5279.0, 5356.0, 5497.0, 5529.0, 5268.0, 5554.0, 5721.0, 5480.0, 5640.0, 5484.0, 5311.0, 5508.0, 5631.0, 5686.0, 5657.0, 5718.0, 5496.0, 5317.0, 5667.0, 5557.0, 5266.0, 5574.0, 5327.0, 5441.0<br>(number of hits: 3 ) |
| 16 | 5500 | 9 | 1 | 333 | 1 | 5584.0, 5257.0, 5359.0, 5374.0, 5274.0, 5658.0, 5377.0, 5343.0, 5493.0, 5717.0, 5543.0, 5662.0, 5569.0, 5574.0, 5369.0, 5393.0, 5621.0, 5351.0, 5567.0, 5255.0, 5609.0, 5536.0, 5451.0, 5409.0, 5496.0, 5456.0, 5329.0, 5261.0, 5266.0, 5396.0, 5649.0, 5580.0, 5387.0, 5575.0, 5601.0, 5707.0, 5597.0, 5305.0, 5271.0, 5509.0, 5364.0, 5591.0, 5265.0, 5588.0, 5716.0, 5464.0, 5334.0, 5397.0, 5694.0, 5375.0, 5561.0, 5466.0, 5573.0, 5422.0, 5546.0, 5637.0, 5442.0, 5307.0, 5556.0, 5616.0, 5611.0, 5366.0, 5517.0, 5544.0, 5319.0, 5358.0, 5335.0, 5457.0, 5444.0, 5286.0, 5333.0, 5259.0, 5432.0, 5705.0, 5316.0, 5672.0, 5391.0, 5627.0, 5655.0, 5398.0, 5558.0, 5592.0, 5336.0, 5622.0, 5453.0, 5415.0, 5712.0, 5594.0, 5418.0, 5264.0, 5428.0, 5548.0, 5598.0, 5360.0, 5613.0, 5260.0, 5632.0, 5320.0, 5520.0, 5547.0<br>(number of hits: 2 ) |
| 17 | 5500 | 9 | 1 | 333 | 1 | 5601.0, 5398.0, 5280.0, 5460.0, 5632.0, 5698.0, 5305.0, 5689.0, 5575.0, 5363.0, 5579.0, 5302.0, 5700.0, 5492.0, 5349.0, 5313.0, 5424.0, 5419.0, 5594.0, 5432.0, 5488.0, 5354.0, 5369.0, 5534.0, 5355.0, 5443.0, 5282.0, 5338.0, 5278.0, 5548.0, 5499.0, 5415.0, 5599.0, 5275.0, 5469.0, 5303.0, 5376.0, 5423.0, 5617.0, 5582.0, 5691.0, 5614.0, 5409.0, 5353.0, 5266.0, 5314.0, 5308.0, 5380.0, 5665.0, 5532.0, 5414.0, 5331.0, 5610.0, 5587.0, 5394.0, 5270.0, 5640.0, 5494.0, 5663.0, 5403.0, 5334.0, 5393.0, 5252.0, 5719.0, 5619.0, 5411.0, 5264.0, 5337.0, 5688.0, 5307.0, 5716.0, 5318.0, 5565.0, 5652.0, 5677.0, 5491.0, 5420.0, 5309.0, 5512.0, 5709.0, 5495.0, 5283.0, 5281.0, 5390.0, 5666.0, 5583.0, 5392.0, 5259.0, 5528.0, 5602.0, 5642.0, 5480.0, 5408.0, 5430.0, 5550.0,                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----|------|---|---|-----|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5717.0, 5603.0, 5538.0, 5574.0, 5655.0<br>(number of hits: 5 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 18 | 5500 | 9 | 1 | 333 | 1 | 5252.0, 5442.0, 5485.0, 5372.0, 5255.0,<br>5651.0, 5382.0, 5549.0, 5636.0, 5555.0,<br>5292.0, 5710.0, 5368.0, 5275.0, 5358.0,<br>5561.0, 5337.0, 5470.0, 5314.0, 5684.0,<br>5436.0, 5662.0, 5505.0, 5477.0, 5266.0,<br>5628.0, 5700.0, 5465.0, 5620.0, 5657.0,<br>5623.0, 5674.0, 5648.0, 5671.0, 5713.0,<br>5690.0, 5718.0, 5488.0, 5254.0, 5440.0,<br>5611.0, 5310.0, 5426.0, 5566.0, 5377.0,<br>5675.0, 5273.0, 5464.0, 5531.0, 5586.0,<br>5342.0, 5659.0, 5445.0, 5394.0, 5481.0,<br>5568.0, 5571.0, 5332.0, 5535.0, 5343.0,<br>5522.0, 5706.0, 5402.0, 5709.0, 5398.0,<br>5658.0, 5375.0, 5686.0, 5469.0, 5282.0,<br>5370.0, 5379.0, 5422.0, 5276.0, 5678.0,<br>5600.0, 5619.0, 5391.0, 5610.0, 5558.0,<br>5633.0, 5592.0, 5640.0, 5652.0, 5309.0,<br>5605.0, 5483.0, 5425.0, 5635.0, 5420.0,<br>5723.0, 5622.0, 5487.0, 5366.0, 5260.0,<br>5365.0, 5446.0, 5341.0, 5404.0, 5387.0<br>(number of hits: 1 ) |
| 19 | 5500 | 9 | 1 | 333 | 1 | 5451.0, 5680.0, 5682.0, 5724.0, 5627.0,<br>5443.0, 5620.0, 5250.0, 5372.0, 5581.0,<br>5310.0, 5350.0, 5286.0, 5550.0, 5360.0,<br>5593.0, 5339.0, 5674.0, 5507.0, 5695.0,<br>5678.0, 5482.0, 5325.0, 5378.0, 5701.0,<br>5546.0, 5484.0, 5292.0, 5421.0, 5492.0,<br>5568.0, 5577.0, 5259.0, 5689.0, 5565.0,<br>5510.0, 5272.0, 5297.0, 5347.0, 5584.0,<br>5432.0, 5398.0, 5607.0, 5269.0, 5439.0,<br>5311.0, 5284.0, 5415.0, 5462.0, 5470.0,<br>5356.0, 5444.0, 5353.0, 5685.0, 5267.0,<br>5446.0, 5551.0, 5367.0, 5693.0, 5307.0,<br>5582.0, 5605.0, 5406.0, 5694.0, 5383.0,<br>5326.0, 5576.0, 5702.0, 5321.0, 5341.0,<br>5289.0, 5498.0, 5422.0, 5458.0, 5429.0,<br>5560.0, 5505.0, 5467.0, 5500.0, 5293.0,<br>5515.0, 5514.0, 5261.0, 5399.0, 5265.0,<br>5418.0, 5344.0, 5578.0, 5662.0, 5417.0,<br>5635.0, 5392.0, 5486.0, 5288.0, 5252.0,<br>5302.0, 5586.0, 5450.0, 5604.0, 5394.0<br>(number of hits: 5 ) |
| 20 | 5500 | 9 | 1 | 333 | 1 | 5336.0, 5500.0, 5286.0, 5403.0, 5385.0,<br>5467.0, 5548.0, 5454.0, 5323.0, 5638.0,<br>5464.0, 5302.0, 5511.0, 5329.0, 5582.0,<br>5632.0, 5517.0, 5653.0, 5337.0, 5533.0,<br>5457.0, 5319.0, 5476.0, 5599.0, 5361.0,<br>5344.0, 5428.0, 5651.0, 5504.0, 5423.0,<br>5250.0, 5572.0, 5395.0, 5259.0, 5289.0,<br>5570.0, 5280.0, 5542.0, 5643.0, 5313.0,<br>5550.0, 5606.0, 5432.0, 5393.0, 5603.0,<br>5704.0, 5485.0, 5633.0, 5481.0, 5279.0,<br>5512.0, 5602.0, 5389.0, 5478.0, 5408.0,<br>5315.0, 5567.0, 5556.0, 5617.0, 5712.0,<br>5394.0, 5253.0, 5285.0, 5469.0, 5380.0,<br>5594.0, 5409.0, 5262.0, 5555.0, 5317.0,<br>5431.0, 5378.0, 5471.0, 5265.0, 5675.0,<br>5620.0, 5348.0, 5705.0, 5659.0, 5668.0,                                                                                                                                                                                                    |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5672.0, 5483.0, 5683.0, 5406.0, 5349.0, 5272.0, 5695.0, 5415.0, 5685.0, 5254.0, 5257.0, 5295.0, 5487.0, 5663.0, 5452.0, 5554.0, 5709.0, 5502.0, 5581.0, 5437.0<br>(number of hits: 3 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 21 | 5500 | 9 | 1 | 333 | 1 | 5656.0, 5695.0, 5342.0, 5306.0, 5641.0, 5630.0, 5583.0, 5621.0, 5563.0, 5628.0, 5279.0, 5343.0, 5304.0, 5357.0, 5456.0, 5506.0, 5441.0, 5557.0, 5272.0, 5541.0, 5458.0, 5408.0, 5643.0, 5537.0, 5533.0, 5266.0, 5394.0, 5251.0, 5692.0, 5287.0, 5535.0, 5385.0, 5435.0, 5468.0, 5281.0, 5355.0, 5688.0, 5298.0, 5514.0, 5337.0, 5709.0, 5694.0, 5510.0, 5463.0, 5349.0, 5253.0, 5322.0, 5348.0, 5308.0, 5257.0, 5395.0, 5503.0, 5290.0, 5359.0, 5303.0, 5372.0, 5396.0, 5593.0, 5482.0, 5388.0, 5494.0, 5449.0, 5491.0, 5504.0, 5554.0, 5677.0, 5599.0, 5366.0, 5717.0, 5411.0, 5642.0, 5414.0, 5472.0, 5592.0, 5515.0, 5325.0, 5638.0, 5682.0, 5631.0, 5485.0, 5520.0, 5386.0, 5332.0, 5328.0, 5486.0, 5264.0, 5532.0, 5415.0, 5289.0, 5492.0, 5661.0, 5470.0, 5383.0, 5439.0, 5474.0, 5326.0, 5637.0, 5552.0, 5666.0, 5684.0<br>(number of hits: 6 ) |
| 22 | 5500 | 9 | 1 | 333 | 1 | 5278.0, 5604.0, 5621.0, 5372.0, 5534.0, 5444.0, 5377.0, 5522.0, 5583.0, 5380.0, 5502.0, 5514.0, 5253.0, 5690.0, 5554.0, 5628.0, 5321.0, 5524.0, 5387.0, 5350.0, 5280.0, 5555.0, 5370.0, 5481.0, 5275.0, 5298.0, 5527.0, 5360.0, 5688.0, 5497.0, 5434.0, 5456.0, 5624.0, 5322.0, 5338.0, 5618.0, 5530.0, 5347.0, 5529.0, 5585.0, 5655.0, 5409.0, 5551.0, 5376.0, 5358.0, 5396.0, 5449.0, 5252.0, 5619.0, 5422.0, 5632.0, 5458.0, 5695.0, 5546.0, 5698.0, 5641.0, 5406.0, 5510.0, 5601.0, 5384.0, 5393.0, 5486.0, 5475.0, 5381.0, 5590.0, 5429.0, 5586.0, 5466.0, 5257.0, 5468.0, 5710.0, 5256.0, 5391.0, 5642.0, 5568.0, 5646.0, 5675.0, 5271.0, 5540.0, 5693.0, 5559.0, 5431.0, 5482.0, 5714.0, 5414.0, 5629.0, 5645.0, 5620.0, 5694.0, 5432.0, 5337.0, 5598.0, 5677.0, 5640.0, 5505.0, 5713.0, 5711.0, 5461.0, 5283.0, 5706.0<br>(number of hits: 3 ) |
| 23 | 5500 | 9 | 1 | 333 | 1 | 5361.0, 5629.0, 5611.0, 5387.0, 5371.0, 5713.0, 5479.0, 5492.0, 5553.0, 5377.0, 5556.0, 5448.0, 5357.0, 5292.0, 5294.0, 5285.0, 5265.0, 5315.0, 5572.0, 5546.0, 5444.0, 5536.0, 5394.0, 5688.0, 5478.0, 5282.0, 5490.0, 5291.0, 5470.0, 5716.0, 5259.0, 5518.0, 5674.0, 5584.0, 5458.0, 5610.0, 5487.0, 5471.0, 5704.0, 5400.0, 5575.0, 5507.0, 5450.0, 5596.0, 5434.0, 5531.0, 5389.0, 5644.0, 5430.0, 5616.0, 5328.0, 5465.0, 5544.0, 5498.0, 5527.0, 5262.0, 5346.0, 5500.0, 5443.0, 5564.0, 5410.0, 5283.0, 5604.0, 5510.0, 5375.0,                                                                                                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5701.0, 5379.0, 5673.0, 5516.0, 5303.0, 5607.0, 5499.0, 5679.0, 5422.0, 5347.0, 5344.0, 5703.0, 5718.0, 5437.0, 5350.0, 5412.0, 5590.0, 5317.0, 5709.0, 5453.0, 5455.0, 5566.0, 5586.0, 5483.0, 5286.0, 5407.0, 5694.0, 5418.0, 5615.0, 5650.0, 5524.0, 5305.0, 5284.0, 5456.0, 5520.0<br>(number of hits: 5 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 24 | 5500 | 9 | 1 | 333 | 1 | 5608.0, 5697.0, 5449.0, 5712.0, 5641.0, 5369.0, 5333.0, 5260.0, 5353.0, 5574.0, 5545.0, 5510.0, 5374.0, 5372.0, 5289.0, 5288.0, 5440.0, 5452.0, 5486.0, 5475.0, 5522.0, 5446.0, 5519.0, 5672.0, 5616.0, 5497.0, 5444.0, 5665.0, 5642.0, 5573.0, 5719.0, 5625.0, 5376.0, 5560.0, 5431.0, 5371.0, 5666.0, 5521.0, 5713.0, 5706.0, 5296.0, 5290.0, 5553.0, 5632.0, 5653.0, 5682.0, 5256.0, 5412.0, 5494.0, 5291.0, 5707.0, 5622.0, 5631.0, 5268.0, 5400.0, 5523.0, 5676.0, 5656.0, 5582.0, 5425.0, 5493.0, 5529.0, 5282.0, 5309.0, 5677.0, 5602.0, 5685.0, 5668.0, 5303.0, 5535.0, 5447.0, 5251.0, 5286.0, 5630.0, 5629.0, 5463.0, 5655.0, 5589.0, 5551.0, 5645.0, 5620.0, 5266.0, 5310.0, 5609.0, 5704.0, 5422.0, 5314.0, 5335.0, 5302.0, 5611.0, 5476.0, 5692.0, 5694.0, 5576.0, 5267.0, 5599.0, 5469.0, 5401.0, 5405.0, 5508.0<br>(number of hits: 4 ) |
| 25 | 5500 | 9 | 1 | 333 | 1 | 5656.0, 5601.0, 5437.0, 5660.0, 5271.0, 5687.0, 5602.0, 5578.0, 5679.0, 5391.0, 5530.0, 5408.0, 5296.0, 5343.0, 5472.0, 5405.0, 5517.0, 5451.0, 5622.0, 5287.0, 5480.0, 5526.0, 5402.0, 5511.0, 5569.0, 5648.0, 5538.0, 5277.0, 5430.0, 5693.0, 5433.0, 5521.0, 5562.0, 5606.0, 5605.0, 5367.0, 5497.0, 5527.0, 5632.0, 5370.0, 5598.0, 5299.0, 5258.0, 5340.0, 5332.0, 5675.0, 5387.0, 5366.0, 5663.0, 5723.0, 5559.0, 5638.0, 5254.0, 5666.0, 5512.0, 5673.0, 5539.0, 5717.0, 5383.0, 5469.0, 5474.0, 5555.0, 5721.0, 5621.0, 5303.0, 5378.0, 5257.0, 5591.0, 5372.0, 5323.0, 5471.0, 5685.0, 5307.0, 5533.0, 5657.0, 5552.0, 5498.0, 5459.0, 5453.0, 5649.0, 5286.0, 5710.0, 5643.0, 5384.0, 5595.0, 5540.0, 5711.0, 5712.0, 5485.0, 5473.0, 5716.0, 5422.0, 5561.0, 5470.0, 5419.0, 5629.0, 5395.0, 5645.0, 5346.0, 5715.0<br>(number of hits: 2 ) |
| 26 | 5500 | 9 | 1 | 333 | 1 | 5494.0, 5594.0, 5433.0, 5293.0, 5396.0, 5446.0, 5390.0, 5519.0, 5252.0, 5621.0, 5483.0, 5545.0, 5342.0, 5298.0, 5290.0, 5525.0, 5700.0, 5520.0, 5608.0, 5496.0, 5383.0, 5392.0, 5707.0, 5537.0, 5305.0, 5464.0, 5417.0, 5303.0, 5663.0, 5276.0, 5427.0, 5697.0, 5387.0, 5566.0, 5430.0, 5596.0, 5685.0, 5355.0, 5471.0, 5325.0, 5422.0, 5443.0, 5273.0, 5481.0, 5343.0, 5324.0, 5338.0, 5597.0, 5640.0, 5393.0,                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5549.0, 5377.0, 5482.0, 5381.0, 5489.0, 5717.0, 5720.0, 5385.0, 5590.0, 5687.0, 5527.0, 5630.0, 5540.0, 5326.0, 5606.0, 5259.0, 5603.0, 5552.0, 5650.0, 5659.0, 5718.0, 5358.0, 5503.0, 5353.0, 5674.0, 5357.0, 5479.0, 5565.0, 5466.0, 5400.0, 5477.0, 5461.0, 5328.0, 5491.0, 5646.0, 5472.0, 5664.0, 5349.0, 5255.0, 5286.0, 5365.0, 5329.0, 5346.0, 5699.0, 5671.0, 5454.0, 5678.0, 5690.0, 5253.0, 5409.0<br>(number of hits: 4)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 27 | 5500 | 9 | 1 | 333 | 1 | 5692.0, 5496.0, 5674.0, 5530.0, 5519.0, 5534.0, 5453.0, 5351.0, 5387.0, 5404.0, 5294.0, 5582.0, 5711.0, 5601.0, 5327.0, 5546.0, 5575.0, 5682.0, 5645.0, 5518.0, 5600.0, 5254.0, 5671.0, 5543.0, 5464.0, 5522.0, 5677.0, 5466.0, 5723.0, 5578.0, 5523.0, 5384.0, 5509.0, 5594.0, 5705.0, 5636.0, 5275.0, 5365.0, 5717.0, 5707.0, 5268.0, 5613.0, 5653.0, 5438.0, 5364.0, 5295.0, 5307.0, 5568.0, 5256.0, 5561.0, 5343.0, 5452.0, 5400.0, 5425.0, 5639.0, 5562.0, 5584.0, 5395.0, 5430.0, 5398.0, 5308.0, 5437.0, 5666.0, 5647.0, 5407.0, 5670.0, 5531.0, 5643.0, 5655.0, 5375.0, 5449.0, 5609.0, 5644.0, 5555.0, 5390.0, 5300.0, 5376.0, 5484.0, 5284.0, 5658.0, 5445.0, 5664.0, 5649.0, 5322.0, 5570.0, 5354.0, 5503.0, 5321.0, 5292.0, 5629.0, 5480.0, 5516.0, 5396.0, 5467.0, 5703.0, 5372.0, 5297.0, 5392.0, 5626.0, 5470.0<br>(number of hits: 2) |
| 28 | 5500 | 9 | 1 | 333 | 1 | 5309.0, 5360.0, 5367.0, 5670.0, 5686.0, 5316.0, 5387.0, 5458.0, 5372.0, 5323.0, 5504.0, 5617.0, 5592.0, 5500.0, 5646.0, 5498.0, 5304.0, 5573.0, 5678.0, 5589.0, 5380.0, 5378.0, 5315.0, 5494.0, 5612.0, 5516.0, 5588.0, 5613.0, 5591.0, 5545.0, 5703.0, 5389.0, 5645.0, 5251.0, 5463.0, 5513.0, 5407.0, 5352.0, 5619.0, 5518.0, 5311.0, 5656.0, 5391.0, 5722.0, 5595.0, 5569.0, 5706.0, 5427.0, 5665.0, 5532.0, 5314.0, 5648.0, 5713.0, 5402.0, 5536.0, 5590.0, 5490.0, 5652.0, 5699.0, 5335.0, 5519.0, 5675.0, 5355.0, 5578.0, 5258.0, 5369.0, 5297.0, 5485.0, 5600.0, 5267.0, 5321.0, 5506.0, 5649.0, 5499.0, 5272.0, 5615.0, 5326.0, 5477.0, 5704.0, 5357.0, 5285.0, 5340.0, 5698.0, 5370.0, 5632.0, 5435.0, 5720.0, 5411.0, 5348.0, 5423.0, 5565.0, 5627.0, 5585.0, 5550.0, 5502.0, 5497.0, 5478.0, 5418.0, 5553.0, 5668.0<br>(number of hits: 8) |
| 29 | 5500 | 9 | 1 | 333 | 1 | 5568.0, 5253.0, 5420.0, 5405.0, 5377.0, 5513.0, 5491.0, 5529.0, 5258.0, 5338.0, 5356.0, 5646.0, 5371.0, 5626.0, 5689.0, 5719.0, 5308.0, 5311.0, 5673.0, 5334.0, 5574.0, 5716.0, 5427.0, 5393.0, 5484.0, 5348.0, 5501.0, 5466.0, 5252.0, 5685.0, 5336.0, 5591.0, 5493.0, 5397.0, 5638.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5589.0, 5305.0, 5562.0, 5402.0, 5497.0, 5711.0, 5572.0, 5368.0, 5438.0, 5342.0, 5534.0, 5366.0, 5306.0, 5327.0, 5447.0, 5361.0, 5394.0, 5483.0, 5479.0, 5706.0, 5662.0, 5560.0, 5365.0, 5396.0, 5302.0, 5350.0, 5714.0, 5597.0, 5347.0, 5467.0, 5535.0, 5333.0, 5698.0, 5703.0, 5514.0, 5658.0, 5325.0, 5281.0, 5492.0, 5390.0, 5700.0, 5442.0, 5537.0, 5286.0, 5363.0, 5289.0, 5388.0, 5705.0, 5508.0, 5504.0, 5509.0, 5519.0, 5251.0, 5303.0, 5343.0, 5410.0, 5594.0, 5474.0, 5385.0, 5510.0, 5561.0, 5573.0, 5351.0, 5536.0, 5528.0<br>(number of hits: 7 )                                                                                                                                                                                                                                                                                         |
| 30 | 5500 | 9 | 1 | 333 | 1 | 5376.0, 5258.0, 5442.0, 5414.0, 5312.0, 5551.0, 5299.0, 5297.0, 5576.0, 5690.0, 5387.0, 5676.0, 5488.0, 5417.0, 5499.0, 5497.0, 5623.0, 5568.0, 5552.0, 5583.0, 5346.0, 5344.0, 5507.0, 5470.0, 5562.0, 5270.0, 5493.0, 5724.0, 5321.0, 5483.0, 5314.0, 5298.0, 5446.0, 5337.0, 5536.0, 5532.0, 5480.0, 5694.0, 5581.0, 5259.0, 5495.0, 5674.0, 5324.0, 5266.0, 5721.0, 5529.0, 5427.0, 5463.0, 5505.0, 5715.0, 5320.0, 5401.0, 5353.0, 5594.0, 5257.0, 5267.0, 5624.0, 5679.0, 5281.0, 5296.0, 5361.0, 5275.0, 5261.0, 5626.0, 5696.0, 5666.0, 5260.0, 5685.0, 5496.0, 5722.0, 5262.0, 5570.0, 5304.0, 5388.0, 5647.0, 5338.0, 5716.0, 5520.0, 5390.0, 5719.0, 5396.0, 5284.0, 5453.0, 5407.0, 5307.0, 5640.0, 5544.0, 5650.0, 5424.0, 5662.0, 5253.0, 5498.0, 5432.0, 5672.0, 5380.0, 5701.0, 5519.0, 5295.0, 5317.0, 5365.0<br>(number of hits: 8 ) |

**5510 MHz, 40 MHz Bandwidth**

| <b>Radar Signal Type</b>      | <b>Waveform/Trial Number</b> | <b>Detection (%)</b> | <b>Limit (%)</b> | <b>Pass/Fail</b> |
|-------------------------------|------------------------------|----------------------|------------------|------------------|
| <b>Type 1A/1B</b>             | 30                           | 100 %                | 60%              | Pass             |
| <b>Type 2</b>                 | 30                           | 93.3 %               | 60%              | Pass             |
| <b>Type 3</b>                 | 30                           | 80 %                 | 60%              | Pass             |
| <b>Type 4</b>                 | 30                           | 83.3 %               | 60%              | Pass             |
| <b>Aggregate (Type1 to 4)</b> | 120                          | 89.15 %              | 80%              | Pass             |
| <b>Type 5</b>                 | 30                           | 100 %                | 80%              | Pass             |
| <b>Type 6</b>                 | 30                           | 100 %                | 70%              | Pass             |

Please refer to the following statistical tables:

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

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5510            | 74                 | 1                       | 718             | 1                              |
| 2                                            | 5510            | 63                 | 1                       | 838             | 1                              |
| 3                                            | 5510            | 95                 | 1                       | 558             | 1                              |
| 4                                            | 5510            | 58                 | 1                       | 918             | 1                              |
| 5                                            | 5510            | 83                 | 1                       | 638             | 1                              |
| 6                                            | 5492            | 68                 | 1                       | 778             | 1                              |
| 7                                            | 5492            | 81                 | 1                       | 658             | 1                              |
| 8                                            | 5492            | 59                 | 1                       | 898             | 1                              |
| 9                                            | 5492            | 72                 | 1                       | 738             | 1                              |
| 10                                           | 5492            | 92                 | 1                       | 578             | 1                              |
| 11                                           | 5528            | 18                 | 1                       | 3066            | 1                              |
| 12                                           | 5528            | 70                 | 1                       | 758             | 1                              |
| 13                                           | 5528            | 89                 | 1                       | 598             | 1                              |
| 14                                           | 5528            | 65                 | 1                       | 818             | 1                              |
| 15                                           | 5528            | 86                 | 1                       | 618             | 1                              |
| 16                                           | 5510            | 33                 | 1                       | 1619            | 1                              |
| 17                                           | 5510            | 23                 | 1                       | 2309            | 1                              |
| 18                                           | 5510            | 93                 | 1                       | 571             | 1                              |
| 19                                           | 5510            | 52                 | 1                       | 1020            | 1                              |
| 20                                           | 5510            | 18                 | 1                       | 3016            | 1                              |
| 21                                           | 5492            | 20                 | 1                       | 2678            | 1                              |
| 22                                           | 5492            | 30                 | 1                       | 1794            | 1                              |
| 23                                           | 5492            | 29                 | 1                       | 1847            | 1                              |
| 24                                           | 5492            | 62                 | 1                       | 862             | 1                              |
| 25                                           | 5492            | 99                 | 1                       | 536             | 1                              |
| 26                                           | 5528            | 26                 | 1                       | 2071            | 1                              |
| 27                                           | 5528            | 29                 | 1                       | 1824            | 1                              |
| 28                                           | 5528            | 24                 | 1                       | 2280            | 1                              |
| 29                                           | 5528            | 69                 | 1                       | 776             | 1                              |
| 30                                           | 5528            | 36                 | 1                       | 1479            | 1                              |
| <b>Detection Percentage: 100 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-2 Radar Type 2 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5510            | 28                 | 2.7                     | 209             | 1                              |
| 2                                             | 5510            | 25                 | 3.3                     | 187             | 1                              |
| 3                                             | 5510            | 25                 | 3                       | 194             | 1                              |
| 4                                             | 5510            | 24                 | 2.7                     | 206             | 1                              |
| 5                                             | 5510            | 26                 | 3.2                     | 185             | 0                              |
| 6                                             | 5510            | 24                 | 3.4                     | 183             | 1                              |
| 7                                             | 5510            | 26                 | 1.2                     | 229             | 1                              |
| 8                                             | 5510            | 29                 | 3.1                     | 187             | 1                              |
| 9                                             | 5510            | 29                 | 2.3                     | 203             | 1                              |
| 10                                            | 5510            | 24                 | 1                       | 229             | 1                              |
| 11                                            | 5492            | 25                 | 1.4                     | 180             | 1                              |
| 12                                            | 5492            | 29                 | 4.7                     | 193             | 1                              |
| 13                                            | 5492            | 23                 | 3.2                     | 214             | 1                              |
| 14                                            | 5492            | 27                 | 1.8                     | 214             | 1                              |
| 15                                            | 5492            | 29                 | 2                       | 201             | 1                              |
| 16                                            | 5492            | 27                 | 3.9                     | 230             | 1                              |
| 17                                            | 5492            | 24                 | 2.8                     | 217             | 1                              |
| 18                                            | 5492            | 27                 | 3.3                     | 171             | 1                              |
| 19                                            | 5492            | 25                 | 4.2                     | 190             | 1                              |
| 20                                            | 5492            | 24                 | 4.8                     | 157             | 1                              |
| 21                                            | 5528            | 28                 | 1.6                     | 210             | 1                              |
| 22                                            | 5528            | 26                 | 4.2                     | 157             | 1                              |
| 23                                            | 5528            | 24                 | 4.9                     | 163             | 1                              |
| 24                                            | 5528            | 27                 | 3.4                     | 168             | 1                              |
| 25                                            | 5528            | 24                 | 4.9                     | 178             | 0                              |
| 26                                            | 5528            | 24                 | 3.2                     | 203             | 1                              |
| 27                                            | 5528            | 26                 | 1.3                     | 154             | 1                              |
| 28                                            | 5528            | 24                 | 1.6                     | 152             | 1                              |
| 29                                            | 5528            | 24                 | 2.3                     | 226             | 1                              |
| 30                                            | 5528            | 25                 | 3                       | 213             | 1                              |
| <b>Detection Percentage: 93.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-3 Radar Type 3 Statistical Performance**

| <b>Trial #</b>                              | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|---------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                           | 5510            | 17                 | 6.8                     | 435             | 1                              |
| 2                                           | 5510            | 18                 | 9.3                     | 404             | 1                              |
| 3                                           | 5510            | 17                 | 6.1                     | 456             | 1                              |
| 4                                           | 5510            | 17                 | 9.3                     | 405             | 1                              |
| 5                                           | 5510            | 18                 | 8.1                     | 222             | 1                              |
| 6                                           | 5510            | 17                 | 9                       | 488             | 1                              |
| 7                                           | 5510            | 17                 | 6.1                     | 210             | 0                              |
| 8                                           | 5510            | 18                 | 7.7                     | 383             | 1                              |
| 9                                           | 5510            | 17                 | 6.7                     | 200             | 1                              |
| 10                                          | 5510            | 18                 | 9.4                     | 424             | 1                              |
| 11                                          | 5492            | 18                 | 6.5                     | 473             | 1                              |
| 12                                          | 5492            | 17                 | 7.5                     | 273             | 1                              |
| 13                                          | 5492            | 18                 | 9.5                     | 340             | 1                              |
| 14                                          | 5492            | 17                 | 7.7                     | 458             | 1                              |
| 15                                          | 5492            | 18                 | 6.9                     | 289             | 0                              |
| 16                                          | 5492            | 17                 | 6.3                     | 346             | 1                              |
| 17                                          | 5492            | 17                 | 8.9                     | 405             | 1                              |
| 18                                          | 5492            | 16                 | 9.3                     | 367             | 0                              |
| 19                                          | 5492            | 17                 | 8.7                     | 231             | 0                              |
| 20                                          | 5492            | 18                 | 7.1                     | 382             | 1                              |
| 21                                          | 5528            | 17                 | 7.1                     | 223             | 1                              |
| 22                                          | 5528            | 17                 | 8.3                     | 375             | 1                              |
| 23                                          | 5528            | 18                 | 7.4                     | 262             | 0                              |
| 24                                          | 5528            | 16                 | 8.7                     | 459             | 1                              |
| 25                                          | 5528            | 16                 | 8.3                     | 238             | 1                              |
| 26                                          | 5528            | 17                 | 8.4                     | 438             | 0                              |
| 27                                          | 5528            | 18                 | 8.7                     | 436             | 1                              |
| 28                                          | 5528            | 16                 | 9.8                     | 476             | 1                              |
| 29                                          | 5528            | 16                 | 9.8                     | 349             | 1                              |
| 30                                          | 5528            | 17                 | 6                       | 344             | 1                              |
| <b>Detection Percentage: 80 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-4 Radar Type 4 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5510            | 13                 | 16.4                    | 487             | 1                              |
| 2                                             | 5510            | 12                 | 11.6                    | 357             | 1                              |
| 3                                             | 5510            | 16                 | 13.8                    | 331             | 1                              |
| 4                                             | 5510            | 13                 | 16.7                    | 202             | 1                              |
| 5                                             | 5510            | 15                 | 16                      | 217             | 1                              |
| 6                                             | 5510            | 12                 | 16.5                    | 375             | 0                              |
| 7                                             | 5510            | 12                 | 14.9                    | 263             | 0                              |
| 8                                             | 5510            | 16                 | 19.1                    | 252             | 1                              |
| 9                                             | 5510            | 13                 | 15.3                    | 349             | 1                              |
| 10                                            | 5510            | 16                 | 18.5                    | 225             | 1                              |
| 11                                            | 5492            | 12                 | 19.5                    | 231             | 1                              |
| 12                                            | 5492            | 13                 | 15.1                    | 431             | 1                              |
| 13                                            | 5492            | 14                 | 17.1                    | 238             | 1                              |
| 14                                            | 5492            | 15                 | 19.9                    | 267             | 1                              |
| 15                                            | 5492            | 12                 | 15.9                    | 459             | 1                              |
| 16                                            | 5492            | 13                 | 16.4                    | 361             | 1                              |
| 17                                            | 5492            | 15                 | 13.4                    | 240             | 1                              |
| 18                                            | 5492            | 14                 | 14.5                    | 409             | 1                              |
| 19                                            | 5492            | 13                 | 19.7                    | 373             | 1                              |
| 20                                            | 5492            | 15                 | 17.5                    | 356             | 0                              |
| 21                                            | 5528            | 14                 | 12.4                    | 368             | 1                              |
| 22                                            | 5528            | 15                 | 19.9                    | 478             | 1                              |
| 23                                            | 5528            | 16                 | 14.1                    | 411             | 0                              |
| 24                                            | 5528            | 13                 | 11.9                    | 494             | 1                              |
| 25                                            | 5528            | 15                 | 17.3                    | 294             | 1                              |
| 26                                            | 5528            | 14                 | 19.5                    | 332             | 1                              |
| 27                                            | 5528            | 13                 | 16.7                    | 358             | 0                              |
| 28                                            | 5528            | 13                 | 18.9                    | 207             | 1                              |
| 29                                            | 5528            | 14                 | 11.9                    | 252             | 1                              |
| 30                                            | 5528            | 14                 | 12.8                    | 296             | 1                              |
| <b>Detection Percentage: 83.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-5 Radar Type 5 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------------------|
| 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                                           | 5496.8          | 1                              |
| 12                                           | 5495.6          | 1                              |
| 13                                           | 5496.8          | 1                              |
| 14                                           | 5497.6          | 1                              |
| 15                                           | 5498.8          | 1                              |
| 16                                           | 5496.0          | 1                              |
| 17                                           | 5499.2          | 1                              |
| 18                                           | 5497.2          | 1                              |
| 19                                           | 5499.6          | 1                              |
| 20                                           | 5495.2          | 1                              |
| 21                                           | 5524.0          | 1                              |
| 22                                           | 5520.0          | 1                              |
| 23                                           | 5524.0          | 1                              |
| 24                                           | 5520.0          | 1                              |
| 25                                           | 5524.4          | 1                              |
| 26                                           | 5523.6          | 1                              |
| 27                                           | 5524.0          | 1                              |
| 28                                           | 5521.2          | 1                              |
| 29                                           | 5523.2          | 1                              |
| 30                                           | 5521.2          | 1                              |
| <b>Detection Percentage: 100 % (&gt;80%)</b> |                 |                                |

## 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     | 13          | 91.2             | -                      | -                      | 0.593509       | 1                       |
| 1       | 2     | 13          | 82.2             | 1736                   | -                      | 0.824008       |                         |
| 2       | 3     | 13          | 72.2             | 1692                   | 1623                   | 2.203915       |                         |
| 3       | 2     | 13          | 98.7             | 1364                   | -                      | 2.834149       |                         |
| 4       | 2     | 13          | 89.2             | 1639                   | -                      | 3.385105       |                         |
| 5       | 2     | 13          | 80               | 1226                   | -                      | 4.307933       |                         |
| 6       | 3     | 13          | 96.1             | 1736                   | 1935                   | 5.488093       |                         |
| 7       | 1     | 13          | 82.2             | -                      | -                      | 5.702163       |                         |
| 8       | 2     | 13          | 84.9             | 1958                   | -                      | 6.534614       |                         |
| 9       | 1     | 13          | 73.8             | -                      | -                      | 7.227668       |                         |
| 10      | 1     | 13          | 97.6             | -                      | -                      | 8.273238       |                         |
| 11      | 2     | 13          | 83               | 1429                   | -                      | 9.215469       |                         |
| 12      | 3     | 13          | 77.6             | 1254                   | 1258                   | 9.814462       |                         |
| 13      | 2     | 13          | 50.3             | 1954                   | -                      | 11.172103      |                         |
| 14      | 3     | 13          | 62.8             | 1750                   | 1005                   | 11.746315      |                         |

## Bin5 Statistics 2

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 7           | 90.4             | 1094                   | 1581                   | 0.466986       | 1                       |
| 1       | 2     | 7           | 58.1             | 1374                   | -                      | 2.197017       |                         |
| 2       | 2     | 7           | 54.2             | 1651                   | -                      | 2.915371       |                         |
| 3       | 3     | 7           | 72.6             | 1470                   | 1877                   | 3.64705        |                         |
| 4       | 2     | 7           | 82.3             | 1744                   | -                      | 5.085662       |                         |
| 5       | 1     | 7           | 51.2             | -                      | -                      | 6.312007       |                         |
| 6       | 1     | 7           | 83.2             | -                      | -                      | 8.028473       |                         |
| 7       | 2     | 7           | 86.5             | 1448                   | -                      | 8.902783       |                         |
| 8       | 1     | 7           | 87.3             | -                      | -                      | 10.780868      |                         |
| 9       | 3     | 7           | 56.2             | 1522                   | 1938                   | 11.853877      |                         |

## 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     | 6           | 88.8             | 1062                   | -                      | 0.155194       | 1                       |
| 1       | 2     | 6           | 90.3             | 1298                   | -                      | 1.423791       |                         |
| 2       | 2     | 6           | 92.8             | 1861                   | -                      | 3.068931       |                         |
| 3       | 1     | 6           | 94.5             | -                      | -                      | 3.323765       |                         |
| 4       | 3     | 6           | 52.7             | 1402                   | 1133                   | 5.026521       |                         |
| 5       | 3     | 6           | 62.1             | 1878                   | 1462                   | 5.503533       |                         |
| 6       | 1     | 6           | 91.4             | -                      | -                      | 7.390845       |                         |
| 7       | 2     | 6           | 61.5             | 1933                   | -                      | 8.666508       |                         |
| 8       | 1     | 6           | 94               | -                      | -                      | 9.599097       |                         |
| 9       | 2     | 6           | 91.7             | 1884                   | -                      | 10.836291      |                         |
| 10      | 2     | 6           | 94.6             | 1801                   | -                      | 11.940795      |                         |

## 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          | 56.3             | 1798                   | -                      | 0.624561       | 1                       |
| 1       | 2     | 13          | 97.8             | 1244                   | -                      | 1.364243       |                         |
| 2       | 1     | 13          | 75.8             | -                      | -                      | 1.86906        |                         |
| 3       | 1     | 13          | 77.6             | -                      | -                      | 2.383041       |                         |
| 4       | 3     | 13          | 71.4             | 1527                   | 1822                   | 3.436337       |                         |
| 5       | 1     | 13          | 69.4             | -                      | -                      | 3.75765        |                         |
| 6       | 3     | 13          | 94.2             | 1738                   | 1682                   | 5.016071       |                         |
| 7       | 2     | 13          | 99.7             | 1596                   | -                      | 5.420266       |                         |
| 8       | 3     | 13          | 61.8             | 1789                   | 1541                   | 6.078594       |                         |
| 9       | 3     | 13          | 74.4             | 1650                   | 1025                   | 7.16639        |                         |
| 10      | 2     | 13          | 64.4             | 1142                   | -                      | 7.891222       |                         |
| 11      | 2     | 13          | 67.7             | 1535                   | -                      | 8.773342       |                         |
| 12      | 2     | 13          | 71.9             | 1555                   | -                      | 9.602226       |                         |
| 13      | 2     | 13          | 67.8             | 1322                   | -                      | 9.927011       |                         |
| 14      | 2     | 13          | 61.6             | 1660                   | -                      | 11.191174      |                         |
| 15      | 3     | 13          | 96.8             | 1885                   | 1901                   | 11.563611      |                         |

## 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          | 57.1             | 1263                   | -                      | 0.488857       | 1                       |
| 1       | 2     | 12          | 58.4             | 1307                   | -                      | 0.975581       |                         |
| 2       | 1     | 12          | 65.7             | -                      | -                      | 1.982229       |                         |
| 3       | 2     | 12          | 95.7             | 1496                   | -                      | 2.743759       |                         |
| 4       | 1     | 12          | 65               | -                      | -                      | 3.349128       |                         |
| 5       | 3     | 12          | 53               | 1376                   | 1710                   | 3.89565        |                         |
| 6       | 2     | 12          | 98.6             | 1696                   | -                      | 4.982031       |                         |
| 7       | 2     | 12          | 90.6             | 1214                   | -                      | 5.393833       |                         |
| 8       | 2     | 12          | 74.2             | 1664                   | -                      | 6.030673       |                         |
| 9       | 2     | 12          | 98.6             | 1613                   | -                      | 6.886192       |                         |
| 10      | 3     | 12          | 75.7             | 1107                   | 1808                   | 7.711365       |                         |
| 11      | 2     | 12          | 71.2             | 1071                   | -                      | 8.94333        |                         |
| 12      | 2     | 12          | 73.9             | 1893                   | -                      | 9.692379       |                         |
| 13      | 2     | 12          | 87               | 1313                   | -                      | 9.807029       |                         |
| 14      | 2     | 12          | 83.4             | 1777                   | -                      | 11.025657      |                         |
| 15      | 2     | 12          | 88.7             | 1499                   | -                      | 11.414154      |                         |

## 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     | 7           | 91.8             | 1693                   | -                      | 0.099743       | 1                       |
| 1       | 3     | 7           | 82               | 1562                   | 1762                   | 0.926682       |                         |
| 2       | 3     | 7           | 85.2             | 1206                   | 1089                   | 1.693428       |                         |
| 3       | 2     | 7           | 60.8             | 1475                   | -                      | 2.245967       |                         |
| 4       | 1     | 7           | 55.4             | -                      | -                      | 2.40999        |                         |
| 5       | 1     | 7           | 51.8             | -                      | -                      | 3.147307       |                         |
| 6       | 1     | 7           | 70.6             | -                      | -                      | 3.937747       |                         |
| 7       | 1     | 7           | 87.5             | -                      | -                      | 4.689496       |                         |
| 8       | 2     | 7           | 69.3             | 1348                   | -                      | 4.862125       |                         |
| 9       | 3     | 7           | 65               | 1767                   | 1826                   | 5.572503       |                         |
| 10      | 2     | 7           | 50.1             | 1728                   | -                      | 6.011278       |                         |
| 11      | 2     | 7           | 99.9             | 1145                   | -                      | 6.666999       |                         |
| 12      | 2     | 7           | 67.4             | 1754                   | -                      | 7.417255       |                         |
| 13      | 1     | 7           | 88.4             | -                      | -                      | 7.973966       |                         |
| 14      | 2     | 7           | 51.3             | 1523                   | -                      | 8.720892       |                         |
| 15      | 2     | 7           | 88.6             | 1912                   | -                      | 9.130081       |                         |
| 16      | 1     | 7           | 66.8             | -                      | -                      | 9.768723       |                         |
| 17      | 2     | 7           | 79.9             | 1119                   | -                      | 10.775238      |                         |
| 18      | 1     | 7           | 69.3             | -                      | -                      | 11.096565      |                         |

## Bin5 Statistics 7

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 16          | 72.9             | 1296                   | -                      | 0.108236       | 1                       |
| 1       | 2     | 16          | 71.5             | 1862                   | -                      | 0.832729       |                         |
| 2       | 3     | 16          | 83.2             | 1878                   | 1083                   | 2.067426       |                         |
| 3       | 2     | 16          | 57.4             | 1726                   | -                      | 2.861243       |                         |
| 4       | 2     | 16          | 64.5             | 1327                   | -                      | 3.815701       |                         |
| 5       | 3     | 16          | 64.8             | 1205                   | 1144                   | 4.751775       |                         |
| 6       | 3     | 16          | 73.1             | 1242                   | 1218                   | 4.986547       |                         |
| 7       | 2     | 16          | 71.6             | 1526                   | -                      | 6.358446       |                         |
| 8       | 2     | 16          | 53.5             | 1419                   | -                      | 6.587821       |                         |
| 9       | 3     | 16          | 91.3             | 1557                   | 1129                   | 7.874922       |                         |
| 10      | 2     | 16          | 51.4             | 1052                   | -                      | 8.61095        |                         |
| 11      | 1     | 16          | 53.6             | -                      | -                      | 9.299576       |                         |
| 12      | 3     | 16          | 88.7             | 1519                   | 1267                   | 9.878978       |                         |
| 13      | 1     | 16          | 70.9             | -                      | -                      | 11.077618      |                         |
| 14      | 2     | 16          | 66.3             | 1964                   | -                      | 11.638298      |                         |

## 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     | 13          | 79.6             | 1877                   | 1378                   | 0.710077       | 1                       |
| 1       | 2     | 13          | 67.1             | 1909                   | -                      | 1.792479       |                         |
| 2       | 3     | 13          | 99.1             | 1713                   | 1272                   | 2.695802       |                         |
| 3       | 3     | 13          | 95.3             | 1044                   | 1566                   | 3.157071       |                         |
| 4       | 2     | 13          | 89.8             | 1496                   | -                      | 3.923934       |                         |
| 5       | 2     | 13          | 78.2             | 1091                   | -                      | 5.415138       |                         |
| 6       | 2     | 13          | 65.3             | 1367                   | -                      | 6.265786       |                         |
| 7       | 2     | 13          | 99.9             | 1206                   | -                      | 7.246107       |                         |
| 8       | 3     | 13          | 86.6             | 1514                   | 1722                   | 7.640637       |                         |
| 9       | 3     | 13          | 82.9             | 1764                   | 1424                   | 9.125358       |                         |
| 10      | 2     | 13          | 97.1             | 1866                   | -                      | 9.923404       |                         |
| 11      | 1     | 13          | 95.9             | -                      | -                      | 10.478728      |                         |
| 12      | 2     | 13          | 80.2             | 1563                   | -                      | 11.956675      |                         |

## 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           | 85.8             | -                      | -                      | 0.032168       | 0                       |
| 1       | 2     | 9           | 65.9             | 1895                   | -                      | 1.413771       |                         |
| 2       | 3     | 9           | 61.9             | 1945                   | 1401                   | 2.245819       |                         |
| 3       | 2     | 9           | 92.4             | 1092                   | -                      | 4.316587       |                         |
| 4       | 2     | 9           | 85.4             | 1434                   | -                      | 5.093561       |                         |
| 5       | 2     | 9           | 79.8             | 1867                   | -                      | 6.241441       |                         |
| 6       | 2     | 9           | 50.5             | 1557                   | -                      | 6.776915       |                         |
| 7       | 2     | 9           | 79.7             | 1741                   | -                      | 8.059099       |                         |
| 8       | 2     | 9           | 70               | 1536                   | -                      | 9.653939       |                         |
| 9       | 2     | 9           | 61.3             | 1465                   | -                      | 10.313216      |                         |
| 10      | 1     | 9           | 66.7             | -                      | -                      | 11.966368      |                         |

## Bin5 Statistics 10

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 15          | 68               | 1663                   | -                      | 0.373128       | 1                       |
| 1       | 1     | 15          | 92.6             | -                      | -                      | 1.038439       |                         |
| 2       | 1     | 15          | 52.4             | -                      | -                      | 2.389299       |                         |
| 3       | 2     | 15          | 99.7             | 1149                   | -                      | 2.985257       |                         |
| 4       | 3     | 15          | 99.4             | 1901                   | 1381                   | 3.782237       |                         |
| 5       | 2     | 15          | 63.2             | 1440                   | -                      | 5.082102       |                         |
| 6       | 1     | 15          | 71.7             | -                      | -                      | 5.607103       |                         |
| 7       | 2     | 15          | 83.8             | 1226                   | -                      | 6.601947       |                         |
| 8       | 2     | 15          | 55.7             | 1806                   | -                      | 7.4799         |                         |
| 9       | 2     | 15          | 98.8             | 1623                   | -                      | 7.904507       |                         |
| 10      | 3     | 15          | 58.4             | 1481                   | 1799                   | 9.051986       |                         |
| 11      | 2     | 15          | 96.2             | 1684                   | -                      | 9.468744       |                         |
| 12      | 2     | 15          | 82.8             | 1568                   | -                      | 10.41805       |                         |
| 13      | 3     | 15          | 61.6             | 1303                   | 1434                   | 11.575825      |                         |

## 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     | 12          | 56.1             | 1264                   | -                      | 0.020321       | 1                       |
| 1       | 3     | 12          | 73.3             | 1149                   | 1846                   | 1.073737       |                         |
| 2       | 1     | 12          | 94.5             | -                      | -                      | 1.465881       |                         |
| 3       | 1     | 12          | 57.8             | -                      | -                      | 2.144188       |                         |
| 4       | 3     | 12          | 56.2             | 1312                   | 1090                   | 2.867585       |                         |
| 5       | 1     | 12          | 73.4             | -                      | -                      | 3.343483       |                         |
| 6       | 3     | 12          | 78.8             | 1921                   | 1410                   | 4.16844        |                         |
| 7       | 2     | 12          | 63.7             | 1205                   | -                      | 4.501029       |                         |
| 8       | 2     | 12          | 74.7             | 1526                   | -                      | 5.066625       |                         |
| 9       | 3     | 12          | 92.2             | 1601                   | 1982                   | 5.902731       |                         |
| 10      | 2     | 12          | 54.9             | 1717                   | -                      | 6.551249       |                         |
| 11      | 2     | 12          | 61.8             | 1483                   | -                      | 7.173233       |                         |
| 12      | 2     | 12          | 71.4             | 1739                   | -                      | 7.365791       |                         |
| 13      | 2     | 12          | 90.1             | 1902                   | -                      | 7.950227       |                         |
| 14      | 2     | 12          | 66.2             | 1755                   | -                      | 8.454026       |                         |
| 15      | 3     | 12          | 60.2             | 1068                   | 1474                   | 9.133073       |                         |
| 16      | 3     | 12          | 56               | 1881                   | 1876                   | 9.746348       |                         |
| 17      | 2     | 12          | 62.2             | 1268                   | -                      | 10.509826      |                         |
| 18      | 2     | 12          | 52.5             | 1548                   | -                      | 10.874763      |                         |
| 19      | 2     | 12          | 53.2             | 1249                   | -                      | 11.827708      |                         |

## Bin5 Statistics 12

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 9           | 93               | -                      | -                      | 1.038715       | 1                       |
| 1       | 2     | 9           | 92.5             | 1032                   | -                      | 1.323414       |                         |
| 2       | 2     | 9           | 55.9             | 1945                   | -                      | 2.80808        |                         |
| 3       | 2     | 9           | 88.3             | 1872                   | -                      | 4.297184       |                         |
| 4       | 2     | 9           | 73.6             | 1928                   | -                      | 5.973324       |                         |
| 5       | 2     | 9           | 52.1             | 1108                   | -                      | 6.602222       |                         |
| 6       | 1     | 9           | 60.2             | -                      | -                      | 7.586625       |                         |
| 7       | 2     | 9           | 54.4             | 1556                   | -                      | 8.635004       |                         |
| 8       | 2     | 9           | 55.7             | 1820                   | -                      | 10.186205      |                         |
| 9       | 2     | 9           | 56.3             | 1219                   | -                      | 11.268721      |                         |

## Bin5 Statistics 13

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 12          | 87.4             | 1353                   | -                      | 0.527893       | 1                       |
| 1       | 1     | 12          | 72               | -                      | -                      | 1.37194        |                         |
| 2       | 1     | 12          | 82.9             | -                      | -                      | 2.704774       |                         |
| 3       | 1     | 12          | 68.9             | -                      | -                      | 3.026638       |                         |
| 4       | 2     | 12          | 65.5             | 1253                   | -                      | 3.835058       |                         |
| 5       | 2     | 12          | 62.1             | 1913                   | -                      | 4.834689       |                         |
| 6       | 3     | 12          | 89.9             | 1032                   | 1178                   | 6.195478       |                         |
| 7       | 2     | 12          | 51.8             | 1739                   | -                      | 6.700132       |                         |
| 8       | 3     | 12          | 55.5             | 1129                   | 1213                   | 7.468145       |                         |
| 9       | 1     | 12          | 66               | -                      | -                      | 9.13926        |                         |
| 10      | 2     | 12          | 69.3             | 1059                   | -                      | 9.481098       |                         |
| 11      | 3     | 12          | 76.3             | 1919                   | 1303                   | 10.502191      |                         |
| 12      | 2     | 12          | 72.1             | 1570                   | -                      | 11.406853      |                         |

## Bin5 Statistics 14

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 14          | 84.1             | -                      | -                      | 0.646371       | 1                       |
| 1       | 1     | 14          | 82.8             | -                      | -                      | 1.324654       |                         |
| 2       | 1     | 14          | 83.8             | -                      | -                      | 1.922761       |                         |
| 3       | 3     | 14          | 93.7             | 1454                   | 1342                   | 2.679631       |                         |
| 4       | 3     | 14          | 75.7             | 1755                   | 1640                   | 3.655278       |                         |
| 5       | 1     | 14          | 98.9             | -                      | -                      | 4.286404       |                         |
| 6       | 1     | 14          | 53.7             | -                      | -                      | 5.85239        |                         |
| 7       | 1     | 14          | 57.7             | -                      | -                      | 6.303585       |                         |
| 8       | 2     | 14          | 80               | 1434                   | -                      | 7.510497       |                         |
| 9       | 2     | 14          | 81.6             | 1749                   | -                      | 8.472357       |                         |
| 10      | 1     | 14          | 50.4             | -                      | -                      | 8.889427       |                         |
| 11      | 1     | 14          | 54.3             | -                      | -                      | 9.772734       |                         |
| 12      | 2     | 14          | 76.7             | 1738                   | -                      | 10.36038       |                         |
| 13      | 3     | 14          | 80.7             | 1158                   | 1705                   | 11.860116      |                         |

## 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     | 17          | 50.7             | 1593                   | 1702                   | 0.25206        | 1                       |
| 1       | 2     | 17          | 72.2             | 1629                   | -                      | 1.0309         |                         |
| 2       | 2     | 17          | 96.7             | 1486                   | -                      | 1.756917       |                         |
| 3       | 1     | 17          | 88               | -                      | -                      | 1.977102       |                         |
| 4       | 3     | 17          | 78.3             | 1136                   | 1441                   | 2.535689       |                         |
| 5       | 3     | 17          | 95.2             | 1383                   | 1484                   | 3.549393       |                         |
| 6       | 2     | 17          | 52.5             | 1501                   | -                      | 3.810165       |                         |
| 7       | 3     | 17          | 92.6             | 1474                   | 1916                   | 4.482693       |                         |
| 8       | 2     | 17          | 54.9             | 1595                   | -                      | 5.211239       |                         |
| 9       | 2     | 17          | 91.5             | 1086                   | -                      | 5.640379       |                         |
| 10      | 3     | 17          | 58               | 1498                   | 1613                   | 6.479194       |                         |
| 11      | 2     | 17          | 51.9             | 1211                   | -                      | 6.78266        |                         |
| 12      | 3     | 17          | 77.9             | 1202                   | 1341                   | 7.592823       |                         |
| 13      | 1     | 17          | 83.4             | -                      | -                      | 8.112307       |                         |
| 14      | 1     | 17          | 66.9             | -                      | -                      | 8.803623       |                         |
| 15      | 3     | 17          | 62.1             | 1158                   | 1900                   | 9.548918       |                         |
| 16      | 2     | 17          | 77.7             | 1028                   | -                      | 9.883744       |                         |
| 17      | 1     | 17          | 68.6             | -                      | -                      | 10.687572      |                         |
| 18      | 3     | 17          | 75.3             | 1547                   | 1848                   | 11.19933       |                         |
| 19      | 1     | 17          | 66.8             | -                      | -                      | 11.730926      |                         |

## Bin5 Statistics 16

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 10          | 79.6             | -                      | -                      | 0.441758       | 1                       |
| 1       | 1     | 10          | 55.3             | -                      | -                      | 1.735936       |                         |
| 2       | 2     | 10          | 98.4             | 1289                   | -                      | 3.237961       |                         |
| 3       | 2     | 10          | 96.6             | 1480                   | -                      | 4.140651       |                         |
| 4       | 1     | 10          | 90.8             | -                      | -                      | 4.847115       |                         |
| 5       | 1     | 10          | 91               | -                      | -                      | 5.847038       |                         |
| 6       | 2     | 10          | 82.2             | 1646                   | -                      | 6.840357       |                         |
| 7       | 2     | 10          | 57.9             | 1535                   | -                      | 8.470614       |                         |
| 8       | 3     | 10          | 81.7             | 1029                   | 1645                   | 9.294256       |                         |
| 9       | 3     | 10          | 54.9             | 1777                   | 1958                   | 10.359917      |                         |
| 10      | 1     | 10          | 53.3             | -                      | -                      | 11.943516      |                         |

## 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          | 66.5             | 1376                   | -                      | 0.356294       | 1                       |
| 1       | 3     | 18          | 76.4             | 1933                   | 1591                   | 1.636026       |                         |
| 2       | 3     | 18          | 72.6             | 1063                   | 1484                   | 2.925446       |                         |
| 3       | 1     | 18          | 51               | -                      | -                      | 4.3929         |                         |
| 4       | 2     | 18          | 85.9             | 1077                   | -                      | 5.410506       |                         |
| 5       | 3     | 18          | 78               | 1647                   | 1687                   | 7.136831       |                         |
| 6       | 2     | 18          | 54.7             | 1238                   | -                      | 7.893029       |                         |
| 7       | 2     | 18          | 86.6             | 1677                   | -                      | 9.581145       |                         |
| 8       | 3     | 18          | 97.3             | 1593                   | 1467                   | 9.917317       |                         |
| 9       | 2     | 18          | 59.5             | 1508                   | -                      | 11.450095      |                         |

## Bin5 Statistics 18

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 13          | 91.9             | -                      | -                      | 1.041179       | 1                       |
| 1       | 1     | 13          | 70.6             | -                      | -                      | 1.965857       |                         |
| 2       | 3     | 13          | 73.8             | 1940                   | 1813                   | 4.134192       |                         |
| 3       | 2     | 13          | 85               | 1096                   | -                      | 4.861618       |                         |
| 4       | 2     | 13          | 96               | 1395                   | -                      | 7.361545       |                         |
| 5       | 3     | 13          | 50.4             | 1215                   | 1006                   | 7.723615       |                         |
| 6       | 2     | 13          | 63.2             | 1703                   | -                      | 9.820389       |                         |
| 7       | 2     | 13          | 89               | 1322                   | -                      | 10.892789      |                         |

## 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     | 19          | 82.7             | 1215                   | -                      | 0.206526       | 1                       |
| 1       | 3     | 19          | 61.8             | 1580                   | 1312                   | 0.842261       |                         |
| 2       | 1     | 19          | 90.5             | -                      | -                      | 1.805243       |                         |
| 3       | 2     | 19          | 58.9             | 1602                   | -                      | 2.375642       |                         |
| 4       | 2     | 19          | 70.6             | 1955                   | -                      | 3.063114       |                         |
| 5       | 2     | 19          | 73.9             | 1984                   | -                      | 3.550138       |                         |
| 6       | 2     | 19          | 52               | 1512                   | -                      | 4.5791         |                         |
| 7       | 3     | 19          | 96.9             | 1654                   | 1759                   | 4.706951       |                         |
| 8       | 3     | 19          | 66.2             | 1582                   | 1969                   | 5.477434       |                         |
| 9       | 1     | 19          | 67               | -                      | -                      | 6.521361       |                         |
| 10      | 1     | 19          | 75.5             | -                      | -                      | 6.96842        |                         |
| 11      | 2     | 19          | 51.9             | 1685                   | -                      | 7.502908       |                         |
| 12      | 2     | 19          | 96.7             | 1901                   | -                      | 8.597643       |                         |
| 13      | 3     | 19          | 55.9             | 1686                   | 1367                   | 8.874977       |                         |
| 14      | 3     | 19          | 60.3             | 1011                   | 1497                   | 9.440611       |                         |
| 15      | 3     | 19          | 90.7             | 1962                   | 1031                   | 10.089208      |                         |
| 16      | 3     | 19          | 83.7             | 1154                   | 1098                   | 11.064907      |                         |
| 17      | 2     | 19          | 50.8             | 1905                   | -                      | 11.465874      |                         |

## 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     | 8           | 74.3             | 1981                   | 1077                   | 0.222124       | 1                       |
| 1       | 2     | 8           | 78               | 1112                   | -                      | 1.377032       |                         |
| 2       | 1     | 8           | 73.1             | -                      | -                      | 2.715514       |                         |
| 3       | 2     | 8           | 68.7             | 1162                   | -                      | 3.242          |                         |
| 4       | 1     | 8           | 53.4             | -                      | -                      | 3.941393       |                         |
| 5       | 3     | 8           | 86.4             | 1424                   | 1729                   | 5.392312       |                         |
| 6       | 3     | 8           | 70.5             | 1776                   | 1779                   | 6.255326       |                         |
| 7       | 2     | 8           | 66.7             | 1498                   | -                      | 6.969406       |                         |
| 8       | 2     | 8           | 69.6             | 1121                   | -                      | 7.794711       |                         |
| 9       | 2     | 8           | 85.6             | 1124                   | -                      | 8.768977       |                         |
| 10      | 2     | 8           | 51.4             | 1099                   | -                      | 9.307837       |                         |
| 11      | 3     | 8           | 58.6             | 1938                   | 1829                   | 10.776086      |                         |
| 12      | 1     | 8           | 68               | -                      | -                      | 11.228819      |                         |

## Bin5 Statistics 21

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 10          | 94.6             | 1996                   | -                      | 0.407817       | 1                       |
| 1       | 1     | 10          | 70.9             | -                      | -                      | 1.22183        |                         |
| 2       | 1     | 10          | 60.7             | -                      | -                      | 1.726352       |                         |
| 3       | 3     | 10          | 71.1             | 1919                   | 1742                   | 2.615564       |                         |
| 4       | 2     | 10          | 90.1             | 1065                   | -                      | 3.17205        |                         |
| 5       | 3     | 10          | 89.9             | 1155                   | 1582                   | 4.490021       |                         |
| 6       | 2     | 10          | 55.9             | 1778                   | -                      | 5.203601       |                         |
| 7       | 2     | 10          | 98.8             | 1039                   | -                      | 5.677462       |                         |
| 8       | 2     | 10          | 83.6             | 1990                   | -                      | 6.630991       |                         |
| 9       | 1     | 10          | 56.2             | -                      | -                      | 6.846932       |                         |
| 10      | 1     | 10          | 91.3             | -                      | -                      | 7.545859       |                         |
| 11      | 3     | 10          | 60.9             | 1301                   | 1673                   | 8.913204       |                         |
| 12      | 1     | 10          | 96.1             | -                      | -                      | 9.71468        |                         |
| 13      | 2     | 10          | 71               | 1400                   | -                      | 9.928818       |                         |
| 14      | 3     | 10          | 54.3             | 1547                   | 1261                   | 10.876903      |                         |
| 15      | 1     | 10          | 68.2             | -                      | -                      | 11.380841      |                         |

## Bin5 Statistics 22

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 20          | 60.4             | 1557                   | 1804                   | 0.14938        | 1                       |
| 1       | 2     | 20          | 82.6             | 1742                   | -                      | 1.149574       |                         |
| 2       | 2     | 20          | 53               | 1562                   | -                      | 1.682245       |                         |
| 3       | 2     | 20          | 63.4             | 1222                   | -                      | 2.52808        |                         |
| 4       | 3     | 20          | 71.3             | 1826                   | 1661                   | 3.190849       |                         |
| 5       | 2     | 20          | 95.6             | 1290                   | -                      | 3.496719       |                         |
| 6       | 1     | 20          | 74.6             | -                      | -                      | 4.40403        |                         |
| 7       | 2     | 20          | 72.9             | 1080                   | -                      | 5.254021       |                         |
| 8       | 2     | 20          | 64.9             | 1787                   | -                      | 5.834545       |                         |
| 9       | 3     | 20          | 78.5             | 1306                   | 1345                   | 6.486607       |                         |
| 10      | 3     | 20          | 87.7             | 1805                   | 1407                   | 7.271388       |                         |
| 11      | 2     | 20          | 78.8             | 1144                   | -                      | 7.384887       |                         |
| 12      | 2     | 20          | 98               | 1374                   | -                      | 8.161015       |                         |
| 13      | 3     | 20          | 57.3             | 1503                   | 1330                   | 8.993011       |                         |
| 14      | 2     | 20          | 55.2             | 1698                   | -                      | 9.681571       |                         |
| 15      | 2     | 20          | 71.5             | 1506                   | -                      | 10.54552       |                         |
| 16      | 2     | 20          | 64.4             | 1090                   | -                      | 11.271788      |                         |
| 17      | 3     | 20          | 64.7             | 1586                   | 1044                   | 11.899094      |                         |

## Bin5 Statistics 23

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 10          | 69.6             | 1904                   | 1436                   | 1.47613        | 1                       |
| 1       | 2     | 10          | 71.6             | 1326                   | -                      | 2.006112       |                         |
| 2       | 2     | 10          | 55.7             | 1082                   | -                      | 3.830982       |                         |
| 3       | 2     | 10          | 96.8             | 1294                   | -                      | 5.003804       |                         |
| 4       | 2     | 10          | 67.1             | 1056                   | -                      | 6.962953       |                         |
| 5       | 1     | 10          | 95.4             | -                      | -                      | 8.792287       |                         |
| 6       | 1     | 10          | 84.2             | -                      | -                      | 9.979123       |                         |
| 7       | 3     | 10          | 78.5             | 1795                   | 1508                   | 10.608052      |                         |

## Bin5 Statistics 24

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 20          | 53.6             | -                      | -                      | 0.024526       | 1                       |
| 1       | 3     | 20          | 75.2             | 1759                   | 1980                   | 2.130812       |                         |
| 2       | 1     | 20          | 57.8             | -                      | -                      | 3.042885       |                         |
| 3       | 1     | 20          | 82.2             | -                      | -                      | 3.896077       |                         |
| 4       | 2     | 20          | 69.8             | 1400                   | -                      | 5.162485       |                         |
| 5       | 2     | 20          | 80.4             | 1196                   | -                      | 5.55144        |                         |
| 6       | 2     | 20          | 63.3             | 1136                   | -                      | 6.57695        |                         |
| 7       | 1     | 20          | 92               | -                      | -                      | 7.687213       |                         |
| 8       | 1     | 20          | 81.1             | -                      | -                      | 9.538953       |                         |
| 9       | 2     | 20          | 58.7             | 1756                   | -                      | 10.859903      |                         |
| 10      | 1     | 20          | 97.8             | -                      | -                      | 11.373914      |                         |

## 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     | 9           | 64.9             | -                      | -                      | 0.419916       | 1                       |
| 1       | 2     | 9           | 95.8             | 1374                   | -                      | 1.981111       |                         |
| 2       | 2     | 9           | 69               | 1167                   | -                      | 3.038221       |                         |
| 3       | 2     | 9           | 55.6             | 1567                   | -                      | 3.85835        |                         |
| 4       | 1     | 9           | 97.7             | -                      | -                      | 4.511979       |                         |
| 5       | 1     | 9           | 50.3             | -                      | -                      | 5.485557       |                         |
| 6       | 2     | 9           | 81.4             | 1231                   | -                      | 7.251171       |                         |
| 7       | 2     | 9           | 73.3             | 1478                   | -                      | 8.184525       |                         |
| 8       | 1     | 9           | 87.6             | -                      | -                      | 8.957022       |                         |
| 9       | 2     | 9           | 53.4             | 1967                   | -                      | 10.620592      |                         |
| 10      | 2     | 9           | 75.3             | 1541                   | -                      | 11.57655       |                         |

## Bin5 Statistics 26

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 11          | 76.8             | -                      | -                      | 0.795104       | 1                       |
| 1       | 3     | 11          | 92.8             | 1996                   | 1778                   | 2.244433       |                         |
| 2       | 1     | 11          | 71.2             | -                      | -                      | 3.121488       |                         |
| 3       | 1     | 11          | 92.6             | -                      | -                      | 4.704837       |                         |
| 4       | 1     | 11          | 69               | -                      | -                      | 7.433242       |                         |
| 5       | 2     | 11          | 89.9             | 1597                   | -                      | 7.611962       |                         |
| 6       | 3     | 11          | 91.5             | 1432                   | 1132                   | 9.301016       |                         |
| 7       | 1     | 11          | 89.1             | -                      | -                      | 11.580348      |                         |

## 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     | 10          | 76               | -                      | -                      | 0.123057       | 1                       |
| 1       | 2     | 10          | 82.2             | 1189                   | -                      | 0.817951       |                         |
| 2       | 2     | 10          | 90.3             | 1541                   | -                      | 1.736375       |                         |
| 3       | 1     | 10          | 95.2             | -                      | -                      | 2.192224       |                         |
| 4       | 2     | 10          | 75.3             | 1437                   | -                      | 2.976306       |                         |
| 5       | 2     | 10          | 80.5             | 1084                   | -                      | 3.337337       |                         |
| 6       | 3     | 10          | 50.8             | 1283                   | 1286                   | 3.832052       |                         |
| 7       | 1     | 10          | 75.7             | -                      | -                      | 4.550335       |                         |
| 8       | 1     | 10          | 92.8             | -                      | -                      | 5.571543       |                         |
| 9       | 2     | 10          | 98.2             | 1986                   | -                      | 5.941852       |                         |
| 10      | 3     | 10          | 84.6             | 1820                   | 1234                   | 6.397623       |                         |
| 11      | 2     | 10          | 56.3             | 1948                   | -                      | 7.375147       |                         |
| 12      | 3     | 10          | 93.3             | 1788                   | 1237                   | 7.772966       |                         |
| 13      | 2     | 10          | 92.6             | 1666                   | -                      | 8.473326       |                         |
| 14      | 3     | 10          | 57.5             | 1014                   | 1774                   | 8.983595       |                         |
| 15      | 3     | 10          | 70.1             | 1477                   | 1264                   | 10.072046      |                         |
| 16      | 2     | 10          | 71.1             | 1281                   | -                      | 10.588434      |                         |
| 17      | 2     | 10          | 72.2             | 1218                   | -                      | 11.209776      |                         |
| 18      | 3     | 10          | 90.5             | 1730                   | 1029                   | 11.387997      |                         |

## 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     | 17          | 97.3             | 1489                   | 1417                   | 0.049163       | 1                       |
| 1       | 3     | 17          | 83.8             | 1867                   | 1597                   | 1.916268       |                         |
| 2       | 1     | 17          | 86.2             | -                      | -                      | 3.13059        |                         |
| 3       | 2     | 17          | 58.4             | 1072                   | -                      | 3.444907       |                         |
| 4       | 2     | 17          | 72.4             | 1834                   | -                      | 4.669802       |                         |
| 5       | 3     | 17          | 76               | 1158                   | 1547                   | 6.176615       |                         |
| 6       | 1     | 17          | 79.1             | -                      | -                      | 7.588081       |                         |
| 7       | 1     | 17          | 75.4             | -                      | -                      | 7.947531       |                         |
| 8       | 2     | 17          | 60.9             | 1311                   | -                      | 9.088084       |                         |
| 9       | 1     | 17          | 85.3             | -                      | -                      | 10.568971      |                         |
| 10      | 1     | 17          | 93.5             | -                      | -                      | 11.972991      |                         |

## 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     | 12          | 82.9             | 1839                   | -                      | 0.760445       | 1                       |
| 1       | 2     | 12          | 56.4             | 1209                   | -                      | 2.485116       |                         |
| 2       | 2     | 12          | 82.2             | 1311                   | -                      | 3.932169       |                         |
| 3       | 3     | 12          | 90.7             | 1774                   | 1996                   | 4.056622       |                         |
| 4       | 3     | 12          | 57.2             | 1105                   | 1561                   | 6.375674       |                         |
| 5       | 3     | 12          | 89.7             | 1433                   | 1900                   | 7.012015       |                         |
| 6       | 2     | 12          | 87.9             | 1182                   | -                      | 8.772338       |                         |
| 7       | 2     | 12          | 89.7             | 1551                   | -                      | 10.390947      |                         |
| 8       | 2     | 12          | 73.3             | 1218                   | -                      | 11.239384      |                         |

## 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     | 17          | 55.6             | -                      | -                      | 0.857692       | 1                       |
| 1       | 2     | 17          | 55.1             | 1663                   | -                      | 1.939769       |                         |
| 2       | 2     | 17          | 60.4             | 1842                   | -                      | 2.338402       |                         |
| 3       | 1     | 17          | 77.7             | -                      | -                      | 3.359893       |                         |
| 4       | 2     | 17          | 89.4             | 1253                   | -                      | 4.382207       |                         |
| 5       | 2     | 17          | 76.6             | 1837                   | -                      | 6.304567       |                         |
| 6       | 3     | 17          | 75.7             | 1558                   | 1796                   | 7.35364        |                         |
| 7       | 2     | 17          | 64.9             | 1557                   | -                      | 8.030042       |                         |
| 8       | 3     | 17          | 77.1             | 1419                   | 1532                   | 8.764156       |                         |
| 9       | 3     | 17          | 57.9             | 1447                   | 1596                   | 10.869881      |                         |
| 10      | 2     | 17          | 83.9             | 1362                   | -                      | 11.530556      |                         |

**Table-6 Radar Type 6 Statistical Performance**

| <b>Trial #</b> | <b>Fc (MHz)</b> | <b>Pulse /Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> | <b>Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|-----------------|---------------------|-------------------------|-----------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 5510            | 9                   | 1                       | 333             | 1                              | 5467.0, 5251.0, 5389.0, 5416.0, 5432.0, 5722.0, 5535.0, 5564.0, 5515.0, 5613.0, 5345.0, 5560.0, 5628.0, 5429.0, 5357.0, 5395.0, 5627.0, 5578.0, 5475.0, 5712.0, 5605.0, 5689.0, 5340.0, 5501.0, 5495.0, 5398.0, 5696.0, 5323.0, 5408.0, 5548.0, 5549.0, 5279.0, 5671.0, 5330.0, 5324.0, 5267.0, 5449.0, 5284.0, 5312.0, 5268.0, 5680.0, 5582.0, 5611.0, 5448.0, 5622.0, 5367.0, 5575.0, 5260.0, 5476.0, 5336.0, 5439.0, 5558.0, 5490.0, 5286.0, 5366.0, 5695.0, 5335.0, 5675.0, 5508.0, 5603.0, 5656.0, 5380.0, 5435.0, 5697.0, 5252.0, 5574.0, 5341.0, 5288.0, 5711.0, 5723.0, 5451.0, 5385.0, 5599.0, 5707.0, 5658.0, 5261.0, 5310.0, 5399.0, 5272.0, 5457.0, 5555.0, 5543.0, 5256.0, 5562.0, 5620.0, 5388.0, 5331.0, 5328.0, 5563.0, 5691.0, 5526.0, 5546.0, 5488.0, 5296.0, 5699.0, 5266.0, 5700.0, 5346.0, 5376.0, 5262.0<br>(number of hits: 5) |
| 2              | 5510            | 9                   | 1                       | 333             | 1                              | 5568.0, 5563.0, 5331.0, 5387.0, 5310.0, 5316.0, 5639.0, 5445.0, 5474.0, 5343.0, 5721.0, 5375.0, 5578.0, 5351.0, 5520.0, 5545.0, 5649.0, 5407.0, 5278.0, 5427.0, 5300.0, 5607.0, 5720.0, 5708.0, 5438.0, 5311.0, 5416.0, 5362.0, 5436.0, 5494.0, 5429.0, 5385.0, 5262.0, 5550.0, 5452.0, 5295.0, 5529.0, 5306.0, 5535.0, 5430.0, 5645.0, 5488.0, 5294.0, 5508.0, 5666.0, 5658.0, 5253.0, 5585.0, 5398.0, 5414.0, 5669.0, 5684.0, 5424.0, 5326.0, 5592.0, 5400.0, 5584.0, 5426.0, 5556.0, 5305.0, 5693.0, 5267.0, 5491.0, 5275.0, 5555.0, 5425.0, 5313.0, 5613.0, 5541.0, 5569.0, 5497.0, 5404.0, 5664.0, 5281.0, 5401.0, 5582.0, 5635.0, 5678.0, 5405.0, 5391.0, 5419.0, 5388.0, 5403.0, 5371.0, 5528.0, 5702.0, 5615.0, 5418.0, 5365.0, 5594.0, 5495.0, 5480.0, 5423.0, 5354.0, 5506.0, 5583.0, 5538.0, 5366.0, 5689.0, 5548.0<br>(number of hits: 6) |
| 3              | 5510            | 9                   | 1                       | 333             | 1                              | 5363.0, 5576.0, 5583.0, 5659.0, 5340.0, 5505.0, 5624.0, 5506.0, 5619.0, 5361.0, 5653.0, 5677.0, 5554.0, 5514.0, 5304.0, 5326.0, 5428.0, 5255.0, 5519.0, 5639.0, 5579.0, 5380.0, 5386.0, 5559.0, 5333.0, 5528.0, 5516.0, 5577.0, 5389.0, 5323.0, 5557.0, 5259.0, 5543.0, 5716.0, 5634.0, 5578.0, 5655.0, 5508.0, 5480.0, 5331.0, 5344.0, 5287.0, 5511.0, 5273.0, 5703.0, 5277.0, 5294.0, 5669.0, 5689.0, 5724.0, 5447.0, 5720.0, 5664.0, 5392.0, 5336.0, 5286.0, 5502.0, 5695.0, 5532.0, 5694.0, 5400.0, 5575.0, 5697.0, 5383.0, 5341.0,                                                                                                                                                                                                                                                                                                               |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5591.0, 5319.0, 5489.0, 5270.0, 5432.0, 5588.0, 5676.0, 5620.0, 5563.0, 5585.0, 5250.0, 5271.0, 5589.0, 5345.0, 5328.0, 5330.0, 5453.0, 5257.0, 5671.0, 5711.0, 5503.0, 5533.0, 5267.0, 5385.0, 5645.0, 5527.0, 5518.0, 5590.0, 5347.0, 5712.0, 5573.0, 5496.0, 5566.0, 5520.0, 5332.0<br>(number of hits: 13 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4 | 5510 | 9 | 1 | 333 | 1 | 5382.0, 5323.0, 5520.0, 5516.0, 5306.0, 5701.0, 5632.0, 5487.0, 5494.0, 5449.0, 5529.0, 5589.0, 5582.0, 5544.0, 5586.0, 5315.0, 5693.0, 5321.0, 5605.0, 5434.0, 5513.0, 5424.0, 5557.0, 5278.0, 5723.0, 5274.0, 5470.0, 5554.0, 5638.0, 5483.0, 5356.0, 5331.0, 5694.0, 5697.0, 5680.0, 5277.0, 5587.0, 5695.0, 5657.0, 5508.0, 5309.0, 5409.0, 5286.0, 5287.0, 5566.0, 5486.0, 5393.0, 5580.0, 5607.0, 5691.0, 5301.0, 5659.0, 5583.0, 5368.0, 5561.0, 5521.0, 5612.0, 5467.0, 5514.0, 5628.0, 5372.0, 5489.0, 5539.0, 5400.0, 5386.0, 5378.0, 5384.0, 5262.0, 5541.0, 5428.0, 5507.0, 5284.0, 5344.0, 5385.0, 5559.0, 5653.0, 5442.0, 5606.0, 5552.0, 5448.0, 5585.0, 5411.0, 5465.0, 5334.0, 5665.0, 5532.0, 5673.0, 5477.0, 5439.0, 5630.0, 5549.0, 5706.0, 5700.0, 5506.0, 5453.0, 5355.0, 5676.0, 5568.0, 5724.0, 5579.0<br>(number of hits: 9 ) |
| 5 | 5510 | 9 | 1 | 333 | 1 | 5651.0, 5618.0, 5389.0, 5266.0, 5632.0, 5393.0, 5567.0, 5644.0, 5425.0, 5470.0, 5319.0, 5272.0, 5663.0, 5466.0, 5352.0, 5321.0, 5387.0, 5542.0, 5522.0, 5367.0, 5492.0, 5540.0, 5508.0, 5623.0, 5500.0, 5484.0, 5615.0, 5637.0, 5297.0, 5265.0, 5448.0, 5429.0, 5426.0, 5719.0, 5704.0, 5294.0, 5551.0, 5392.0, 5670.0, 5269.0, 5444.0, 5594.0, 5548.0, 5427.0, 5310.0, 5667.0, 5340.0, 5569.0, 5520.0, 5476.0, 5555.0, 5485.0, 5462.0, 5414.0, 5619.0, 5438.0, 5289.0, 5664.0, 5695.0, 5420.0, 5331.0, 5253.0, 5636.0, 5645.0, 5601.0, 5691.0, 5661.0, 5605.0, 5372.0, 5459.0, 5711.0, 5407.0, 5571.0, 5443.0, 5620.0, 5390.0, 5400.0, 5708.0, 5715.0, 5714.0, 5556.0, 5277.0, 5495.0, 5549.0, 5514.0, 5639.0, 5697.0, 5408.0, 5275.0, 5338.0, 5583.0, 5660.0, 5589.0, 5423.0, 5683.0, 5535.0, 5477.0, 5703.0, 5454.0, 5385.0<br>(number of hits: 7 ) |
| 6 | 5510 | 9 | 1 | 333 | 1 | 5596.0, 5673.0, 5440.0, 5620.0, 5338.0, 5306.0, 5695.0, 5477.0, 5417.0, 5669.0, 5606.0, 5626.0, 5593.0, 5577.0, 5543.0, 5271.0, 5718.0, 5393.0, 5535.0, 5310.0, 5292.0, 5688.0, 5423.0, 5603.0, 5351.0, 5629.0, 5594.0, 5340.0, 5546.0, 5296.0, 5554.0, 5595.0, 5372.0, 5481.0, 5690.0, 5250.0, 5333.0, 5456.0, 5580.0, 5404.0, 5426.0, 5257.0, 5582.0, 5267.0, 5517.0, 5678.0, 5485.0, 5722.0, 5467.0, 5311.0,                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5525.0, 5435.0, 5307.0, 5720.0, 5569.0, 5425.0, 5587.0, 5512.0, 5322.0, 5713.0, 5608.0, 5414.0, 5255.0, 5454.0, 5439.0, 5328.0, 5624.0, 5396.0, 5252.0, 5570.0, 5475.0, 5391.0, 5364.0, 5597.0, 5526.0, 5647.0, 5258.0, 5380.0, 5505.0, 5571.0, 5581.0, 5649.0, 5704.0, 5583.0, 5502.0, 5591.0, 5633.0, 5706.0, 5360.0, 5421.0, 5671.0, 5507.0, 5503.0, 5256.0, 5654.0, 5476.0, 5702.0, 5631.0, 5689.0, 5293.0<br>(number of hits: 8)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7 | 5510 | 9 | 1 | 333 | 1 | 5688.0, 5558.0, 5396.0, 5505.0, 5565.0, 5273.0, 5454.0, 5337.0, 5292.0, 5651.0, 5681.0, 5650.0, 5532.0, 5422.0, 5432.0, 5698.0, 5338.0, 5348.0, 5510.0, 5594.0, 5414.0, 5435.0, 5252.0, 5659.0, 5264.0, 5598.0, 5381.0, 5520.0, 5693.0, 5635.0, 5680.0, 5347.0, 5591.0, 5413.0, 5571.0, 5282.0, 5670.0, 5360.0, 5481.0, 5543.0, 5460.0, 5617.0, 5603.0, 5437.0, 5513.0, 5584.0, 5349.0, 5645.0, 5541.0, 5604.0, 5321.0, 5368.0, 5398.0, 5443.0, 5305.0, 5342.0, 5519.0, 5627.0, 5257.0, 5376.0, 5372.0, 5425.0, 5291.0, 5597.0, 5345.0, 5487.0, 5611.0, 5500.0, 5476.0, 5682.0, 5503.0, 5576.0, 5580.0, 5416.0, 5661.0, 5424.0, 5642.0, 5641.0, 5408.0, 5442.0, 5373.0, 5702.0, 5479.0, 5259.0, 5431.0, 5677.0, 5320.0, 5560.0, 5336.0, 5554.0, 5605.0, 5592.0, 5665.0, 5518.0, 5535.0, 5573.0, 5324.0, 5470.0, 5624.0, 5486.0<br>(number of hits: 8)  |
| 8 | 5510 | 9 | 1 | 333 | 1 | 5279.0, 5618.0, 5523.0, 5520.0, 5484.0, 5553.0, 5257.0, 5656.0, 5637.0, 5309.0, 5465.0, 5427.0, 5322.0, 5622.0, 5407.0, 5508.0, 5638.0, 5682.0, 5559.0, 5570.0, 5476.0, 5648.0, 5579.0, 5514.0, 5513.0, 5436.0, 5356.0, 5515.0, 5500.0, 5448.0, 5442.0, 5536.0, 5529.0, 5463.0, 5535.0, 5292.0, 5388.0, 5604.0, 5548.0, 5483.0, 5723.0, 5458.0, 5597.0, 5487.0, 5482.0, 5304.0, 5313.0, 5509.0, 5696.0, 5680.0, 5398.0, 5703.0, 5658.0, 5502.0, 5420.0, 5290.0, 5373.0, 5569.0, 5256.0, 5306.0, 5628.0, 5634.0, 5379.0, 5627.0, 5317.0, 5376.0, 5600.0, 5426.0, 5319.0, 5644.0, 5522.0, 5362.0, 5355.0, 5281.0, 5541.0, 5545.0, 5318.0, 5425.0, 5311.0, 5589.0, 5664.0, 5625.0, 5360.0, 5400.0, 5251.0, 5549.0, 5550.0, 5316.0, 5470.0, 5649.0, 5619.0, 5565.0, 5621.0, 5286.0, 5334.0, 5555.0, 5347.0, 5650.0, 5358.0, 5369.0<br>(number of hits: 10) |
| 9 | 5510 | 9 | 1 | 333 | 1 | 5630.0, 5694.0, 5321.0, 5508.0, 5688.0, 5408.0, 5594.0, 5480.0, 5341.0, 5486.0, 5396.0, 5503.0, 5452.0, 5363.0, 5670.0, 5412.0, 5373.0, 5350.0, 5702.0, 5615.0, 5374.0, 5623.0, 5399.0, 5531.0, 5683.0, 5369.0, 5288.0, 5666.0, 5591.0, 5715.0, 5365.0, 5536.0, 5549.0, 5424.0, 5357.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5660.0, 5608.0, 5440.0, 5465.0, 5689.0, 5301.0, 5497.0, 5300.0, 5472.0, 5344.0, 5360.0, 5556.0, 5505.0, 5419.0, 5423.0, 5390.0, 5253.0, 5496.0, 5610.0, 5664.0, 5449.0, 5512.0, 5391.0, 5501.0, 5584.0, 5554.0, 5625.0, 5418.0, 5267.0, 5445.0, 5417.0, 5258.0, 5285.0, 5392.0, 5522.0, 5578.0, 5706.0, 5654.0, 5640.0, 5700.0, 5658.0, 5442.0, 5719.0, 5264.0, 5259.0, 5647.0, 5690.0, 5632.0, 5681.0, 5537.0, 5650.0, 5463.0, 5612.0, 5558.0, 5297.0, 5289.0, 5255.0, 5605.0, 5296.0, 5707.0, 5538.0, 5448.0, 5385.0, 5293.0, 5271.0<br>(number of hits: 8)                                                                                                                                                                                                                                                                                         |
| 10 | 5510 | 9 | 1 | 333 | 1 | 5340.0, 5335.0, 5378.0, 5586.0, 5555.0, 5658.0, 5640.0, 5628.0, 5632.0, 5437.0, 5274.0, 5310.0, 5526.0, 5283.0, 5308.0, 5659.0, 5601.0, 5547.0, 5401.0, 5350.0, 5705.0, 5689.0, 5434.0, 5253.0, 5589.0, 5322.0, 5355.0, 5653.0, 5655.0, 5681.0, 5295.0, 5413.0, 5716.0, 5264.0, 5418.0, 5317.0, 5462.0, 5263.0, 5339.0, 5485.0, 5541.0, 5667.0, 5680.0, 5380.0, 5430.0, 5512.0, 5451.0, 5626.0, 5636.0, 5500.0, 5432.0, 5293.0, 5627.0, 5637.0, 5294.0, 5459.0, 5621.0, 5464.0, 5645.0, 5615.0, 5584.0, 5442.0, 5569.0, 5261.0, 5306.0, 5477.0, 5711.0, 5510.0, 5630.0, 5677.0, 5475.0, 5356.0, 5643.0, 5327.0, 5649.0, 5259.0, 5469.0, 5365.0, 5696.0, 5319.0, 5704.0, 5338.0, 5546.0, 5650.0, 5455.0, 5367.0, 5706.0, 5617.0, 5557.0, 5321.0, 5671.0, 5504.0, 5320.0, 5336.0, 5581.0, 5715.0, 5507.0, 5250.0, 5363.0, 5698.0<br>(number of hits: 6) |
| 11 | 5510 | 9 | 1 | 333 | 1 | 5519.0, 5663.0, 5463.0, 5305.0, 5472.0, 5715.0, 5466.0, 5651.0, 5520.0, 5556.0, 5283.0, 5607.0, 5429.0, 5631.0, 5289.0, 5308.0, 5331.0, 5652.0, 5324.0, 5470.0, 5392.0, 5617.0, 5592.0, 5593.0, 5611.0, 5508.0, 5264.0, 5414.0, 5320.0, 5707.0, 5542.0, 5263.0, 5578.0, 5598.0, 5478.0, 5529.0, 5342.0, 5343.0, 5480.0, 5538.0, 5420.0, 5323.0, 5306.0, 5564.0, 5497.0, 5329.0, 5662.0, 5436.0, 5713.0, 5325.0, 5632.0, 5697.0, 5298.0, 5416.0, 5549.0, 5333.0, 5279.0, 5403.0, 5711.0, 5550.0, 5461.0, 5635.0, 5330.0, 5569.0, 5297.0, 5332.0, 5521.0, 5614.0, 5507.0, 5254.0, 5278.0, 5532.0, 5375.0, 5417.0, 5509.0, 5600.0, 5372.0, 5387.0, 5435.0, 5636.0, 5537.0, 5450.0, 5410.0, 5442.0, 5655.0, 5407.0, 5623.0, 5547.0, 5355.0, 5671.0, 5339.0, 5603.0, 5402.0, 5699.0, 5288.0, 5649.0, 5475.0, 5412.0, 5307.0, 5411.0<br>(number of hits: 7) |
| 12 | 5510 | 9 | 1 | 333 | 1 | 5660.0, 5335.0, 5481.0, 5484.0, 5374.0, 5669.0, 5715.0, 5352.0, 5381.0, 5540.0, 5590.0, 5368.0, 5371.0, 5601.0, 5469.0, 5341.0, 5563.0, 5654.0, 5538.0, 5324.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5598.0, 5615.0, 5536.0, 5576.0, 5513.0, 5568.0, 5263.0, 5438.0, 5395.0, 5273.0, 5449.0, 5659.0, 5415.0, 5628.0, 5709.0, 5656.0, 5299.0, 5589.0, 5690.0, 5515.0, 5492.0, 5487.0, 5665.0, 5639.0, 5257.0, 5476.0, 5390.0, 5707.0, 5255.0, 5610.0, 5382.0, 5336.0, 5508.0, 5644.0, 5361.0, 5428.0, 5539.0, 5661.0, 5312.0, 5392.0, 5614.0, 5604.0, 5470.0, 5265.0, 5643.0, 5672.0, 5266.0, 5397.0, 5569.0, 5570.0, 5345.0, 5529.0, 5525.0, 5447.0, 5606.0, 5264.0, 5697.0, 5479.0, 5387.0, 5678.0, 5677.0, 5315.0, 5493.0, 5666.0, 5309.0, 5342.0, 5286.0, 5640.0, 5292.0, 5457.0, 5258.0, 5436.0, 5370.0, 5549.0, 5579.0, 5459.0, 5577.0, 5504.0, 5685.0, 5365.0<br>(number of hits: 7)                                                                                                                                                                 |
| 13 | 5510 | 9 | 1 | 333 | 1 | 5574.0, 5654.0, 5371.0, 5723.0, 5496.0, 5474.0, 5481.0, 5368.0, 5255.0, 5467.0, 5263.0, 5470.0, 5342.0, 5387.0, 5561.0, 5385.0, 5563.0, 5661.0, 5535.0, 5322.0, 5536.0, 5480.0, 5416.0, 5325.0, 5502.0, 5565.0, 5655.0, 5401.0, 5665.0, 5449.0, 5478.0, 5521.0, 5627.0, 5275.0, 5331.0, 5542.0, 5403.0, 5669.0, 5431.0, 5362.0, 5590.0, 5299.0, 5455.0, 5525.0, 5375.0, 5598.0, 5365.0, 5300.0, 5283.0, 5634.0, 5578.0, 5709.0, 5490.0, 5564.0, 5294.0, 5556.0, 5333.0, 5427.0, 5569.0, 5288.0, 5345.0, 5475.0, 5617.0, 5688.0, 5570.0, 5551.0, 5514.0, 5681.0, 5443.0, 5652.0, 5533.0, 5591.0, 5274.0, 5378.0, 5360.0, 5351.0, 5616.0, 5673.0, 5656.0, 5326.0, 5509.0, 5254.0, 5694.0, 5689.0, 5679.0, 5441.0, 5267.0, 5594.0, 5292.0, 5442.0, 5690.0, 5290.0, 5541.0, 5526.0, 5588.0, 5504.0, 5451.0, 5447.0, 5572.0, 5409.0<br>(number of hits: 8) |
| 14 | 5510 | 9 | 1 | 333 | 1 | 5251.0, 5472.0, 5387.0, 5713.0, 5385.0, 5664.0, 5381.0, 5441.0, 5621.0, 5359.0, 5477.0, 5301.0, 5667.0, 5609.0, 5545.0, 5661.0, 5476.0, 5440.0, 5332.0, 5495.0, 5708.0, 5389.0, 5380.0, 5252.0, 5714.0, 5357.0, 5568.0, 5674.0, 5474.0, 5373.0, 5419.0, 5529.0, 5652.0, 5408.0, 5467.0, 5569.0, 5391.0, 5257.0, 5598.0, 5481.0, 5431.0, 5388.0, 5309.0, 5487.0, 5308.0, 5471.0, 5677.0, 5341.0, 5627.0, 5655.0, 5603.0, 5720.0, 5297.0, 5376.0, 5695.0, 5485.0, 5320.0, 5280.0, 5384.0, 5549.0, 5628.0, 5530.0, 5587.0, 5525.0, 5612.0, 5370.0, 5362.0, 5466.0, 5632.0, 5395.0, 5643.0, 5633.0, 5613.0, 5258.0, 5483.0, 5611.0, 5456.0, 5292.0, 5274.0, 5509.0, 5371.0, 5582.0, 5449.0, 5710.0, 5607.0, 5255.0, 5659.0, 5583.0, 5264.0, 5527.0, 5552.0, 5676.0, 5640.0, 5434.0, 5311.0, 5670.0, 5618.0, 5704.0, 5346.0, 5539.0<br>(number of hits: 4) |
| 15 | 5510 | 9 | 1 | 333 | 1 | 5434.0, 5465.0, 5533.0, 5710.0, 5582.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5482.0, 5656.0, 5624.0, 5395.0, 5549.0, 5375.0, 5399.0, 5718.0, 5271.0, 5691.0, 5506.0, 5333.0, 5490.0, 5362.0, 5419.0, 5295.0, 5524.0, 5281.0, 5397.0, 5564.0, 5709.0, 5380.0, 5644.0, 5441.0, 5385.0, 5367.0, 5413.0, 5538.0, 5722.0, 5633.0, 5274.0, 5438.0, 5377.0, 5467.0, 5602.0, 5688.0, 5627.0, 5289.0, 5706.0, 5452.0, 5647.0, 5442.0, 5439.0, 5543.0, 5678.0, 5704.0, 5394.0, 5425.0, 5596.0, 5595.0, 5436.0, 5570.0, 5542.0, 5660.0, 5282.0, 5521.0, 5541.0, 5359.0, 5290.0, 5416.0, 5461.0, 5309.0, 5390.0, 5384.0, 5675.0, 5328.0, 5537.0, 5673.0, 5265.0, 5443.0, 5386.0, 5327.0, 5690.0, 5556.0, 5501.0, 5698.0, 5489.0, 5581.0, 5502.0, 5702.0, 5577.0, 5635.0, 5484.0, 5593.0, 5447.0, 5276.0, 5626.0, 5689.0, 5637.0, 5494.0, 5696.0, 5682.0, 5457.0, 5619.0, 5462.0<br>(number of hits: 6)                                         |
| 16 | 5510 | 9 | 1 | 333 | 1 | 5434.0, 5517.0, 5481.0, 5597.0, 5506.0, 5417.0, 5675.0, 5634.0, 5468.0, 5578.0, 5367.0, 5509.0, 5679.0, 5316.0, 5429.0, 5400.0, 5372.0, 5402.0, 5563.0, 5354.0, 5269.0, 5697.0, 5266.0, 5600.0, 5401.0, 5619.0, 5317.0, 5564.0, 5565.0, 5711.0, 5585.0, 5486.0, 5712.0, 5374.0, 5453.0, 5284.0, 5685.0, 5398.0, 5409.0, 5609.0, 5389.0, 5373.0, 5271.0, 5706.0, 5594.0, 5570.0, 5350.0, 5618.0, 5549.0, 5624.0, 5408.0, 5686.0, 5531.0, 5388.0, 5288.0, 5458.0, 5334.0, 5463.0, 5418.0, 5311.0, 5641.0, 5345.0, 5332.0, 5280.0, 5569.0, 5670.0, 5348.0, 5503.0, 5713.0, 5501.0, 5253.0, 5541.0, 5452.0, 5461.0, 5519.0, 5702.0, 5366.0, 5645.0, 5500.0, 5721.0, 5449.0, 5432.0, 5278.0, 5714.0, 5692.0, 5344.0, 5606.0, 5443.0, 5674.0, 5454.0, 5648.0, 5513.0, 5365.0, 5628.0, 5520.0, 5255.0, 5428.0, 5290.0, 5550.0, 5327.0<br>(number of hits: 9) |
| 17 | 5510 | 9 | 1 | 333 | 1 | 5671.0, 5608.0, 5694.0, 5309.0, 5440.0, 5656.0, 5554.0, 5558.0, 5335.0, 5623.0, 5484.0, 5690.0, 5658.0, 5651.0, 5389.0, 5594.0, 5374.0, 5559.0, 5491.0, 5618.0, 5355.0, 5470.0, 5474.0, 5516.0, 5492.0, 5277.0, 5505.0, 5686.0, 5377.0, 5531.0, 5371.0, 5265.0, 5601.0, 5620.0, 5545.0, 5655.0, 5405.0, 5460.0, 5308.0, 5369.0, 5254.0, 5588.0, 5555.0, 5661.0, 5549.0, 5520.0, 5457.0, 5466.0, 5436.0, 5263.0, 5288.0, 5413.0, 5312.0, 5447.0, 5476.0, 5679.0, 5640.0, 5696.0, 5478.0, 5356.0, 5339.0, 5370.0, 5435.0, 5587.0, 5419.0, 5362.0, 5722.0, 5420.0, 5721.0, 5556.0, 5300.0, 5454.0, 5260.0, 5463.0, 5582.0, 5310.0, 5612.0, 5255.0, 5611.0, 5683.0, 5707.0, 5297.0, 5417.0, 5305.0, 5692.0, 5616.0, 5415.0, 5359.0, 5316.0, 5330.0, 5577.0, 5376.0, 5543.0, 5710.0, 5660.0,                                                               |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----|------|---|---|-----|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5321.0, 5271.0, 5503.0, 5586.0, 5525.0<br>(number of hits: 6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 18 | 5510 | 9 | 1 | 333 | 1 | 5335.0, 5316.0, 5567.0, 5322.0, 5447.0,<br>5679.0, 5438.0, 5561.0, 5351.0, 5414.0,<br>5558.0, 5482.0, 5289.0, 5685.0, 5392.0,<br>5383.0, 5499.0, 5620.0, 5503.0, 5328.0,<br>5607.0, 5711.0, 5588.0, 5704.0, 5539.0,<br>5589.0, 5258.0, 5512.0, 5288.0, 5612.0,<br>5418.0, 5518.0, 5590.0, 5600.0, 5660.0,<br>5602.0, 5297.0, 5689.0, 5574.0, 5675.0,<br>5343.0, 5714.0, 5290.0, 5564.0, 5490.0,<br>5486.0, 5439.0, 5619.0, 5532.0, 5265.0,<br>5692.0, 5577.0, 5514.0, 5703.0, 5431.0,<br>5451.0, 5352.0, 5312.0, 5370.0, 5308.0,<br>5661.0, 5324.0, 5634.0, 5632.0, 5560.0,<br>5501.0, 5672.0, 5717.0, 5681.0, 5455.0,<br>5446.0, 5551.0, 5272.0, 5342.0, 5340.0,<br>5281.0, 5559.0, 5311.0, 5525.0, 5433.0,<br>5427.0, 5572.0, 5362.0, 5252.0, 5251.0,<br>5460.0, 5624.0, 5461.0, 5710.0, 5296.0,<br>5314.0, 5449.0, 5462.0, 5570.0, 5329.0,<br>5344.0, 5715.0, 5333.0, 5356.0, 5669.0<br>(number of hits: 7) |
| 19 | 5510 | 9 | 1 | 333 | 1 | 5414.0, 5452.0, 5341.0, 5301.0, 5717.0,<br>5579.0, 5350.0, 5664.0, 5684.0, 5493.0,<br>5539.0, 5560.0, 5365.0, 5567.0, 5470.0,<br>5300.0, 5632.0, 5568.0, 5508.0, 5519.0,<br>5304.0, 5375.0, 5455.0, 5645.0, 5667.0,<br>5610.0, 5687.0, 5601.0, 5339.0, 5410.0,<br>5532.0, 5292.0, 5333.0, 5342.0, 5285.0,<br>5377.0, 5368.0, 5278.0, 5658.0, 5338.0,<br>5274.0, 5480.0, 5290.0, 5552.0, 5388.0,<br>5523.0, 5402.0, 5518.0, 5485.0, 5259.0,<br>5384.0, 5497.0, 5331.0, 5501.0, 5401.0,<br>5525.0, 5622.0, 5648.0, 5529.0, 5254.0,<br>5691.0, 5313.0, 5293.0, 5369.0, 5649.0,<br>5527.0, 5564.0, 5268.0, 5674.0, 5612.0,<br>5389.0, 5336.0, 5345.0, 5286.0, 5628.0,<br>5419.0, 5619.0, 5581.0, 5432.0, 5647.0,<br>5335.0, 5656.0, 5705.0, 5661.0, 5620.0,<br>5565.0, 5461.0, 5279.0, 5598.0, 5346.0,<br>5298.0, 5605.0, 5334.0, 5378.0, 5630.0,<br>5592.0, 5251.0, 5448.0, 5267.0, 5431.0<br>(number of hits: 9) |
| 20 | 5510 | 9 | 1 | 333 | 1 | 5370.0, 5594.0, 5412.0, 5337.0, 5315.0,<br>5554.0, 5695.0, 5503.0, 5624.0, 5254.0,<br>5305.0, 5431.0, 5617.0, 5386.0, 5688.0,<br>5492.0, 5587.0, 5556.0, 5461.0, 5480.0,<br>5312.0, 5306.0, 5721.0, 5486.0, 5357.0,<br>5565.0, 5591.0, 5372.0, 5541.0, 5374.0,<br>5505.0, 5473.0, 5579.0, 5568.0, 5621.0,<br>5632.0, 5417.0, 5566.0, 5491.0, 5618.0,<br>5509.0, 5373.0, 5291.0, 5351.0, 5423.0,<br>5258.0, 5604.0, 5531.0, 5679.0, 5517.0,<br>5705.0, 5481.0, 5447.0, 5323.0, 5293.0,<br>5476.0, 5489.0, 5500.0, 5654.0, 5592.0,<br>5559.0, 5296.0, 5716.0, 5438.0, 5723.0,<br>5697.0, 5564.0, 5389.0, 5701.0, 5456.0,<br>5425.0, 5689.0, 5479.0, 5366.0, 5545.0,<br>5261.0, 5717.0, 5453.0, 5647.0, 5569.0,                                                                                                                                                                                                   |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5696.0, 5440.0, 5533.0, 5377.0, 5421.0, 5276.0, 5513.0, 5642.0, 5560.0, 5626.0, 5446.0, 5468.0, 5593.0, 5419.0, 5499.0, 5629.0, 5613.0, 5428.0, 5477.0, 5436.0<br>(number of hits: 8 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 21 | 5510 | 9 | 1 | 333 | 1 | 5529.0, 5429.0, 5444.0, 5611.0, 5609.0, 5527.0, 5476.0, 5291.0, 5488.0, 5571.0, 5457.0, 5396.0, 5360.0, 5547.0, 5393.0, 5546.0, 5394.0, 5631.0, 5666.0, 5700.0, 5477.0, 5606.0, 5337.0, 5675.0, 5300.0, 5414.0, 5407.0, 5519.0, 5690.0, 5478.0, 5461.0, 5503.0, 5481.0, 5517.0, 5374.0, 5623.0, 5409.0, 5561.0, 5575.0, 5669.0, 5704.0, 5699.0, 5397.0, 5361.0, 5350.0, 5301.0, 5406.0, 5455.0, 5573.0, 5411.0, 5485.0, 5416.0, 5496.0, 5420.0, 5275.0, 5593.0, 5659.0, 5525.0, 5604.0, 5715.0, 5679.0, 5539.0, 5630.0, 5526.0, 5292.0, 5379.0, 5592.0, 5504.0, 5550.0, 5341.0, 5614.0, 5651.0, 5311.0, 5365.0, 5289.0, 5719.0, 5286.0, 5303.0, 5628.0, 5572.0, 5445.0, 5506.0, 5263.0, 5636.0, 5671.0, 5610.0, 5492.0, 5417.0, 5471.0, 5551.0, 5615.0, 5282.0, 5681.0, 5654.0, 5682.0, 5256.0, 5336.0, 5543.0, 5705.0, 5390.0<br>(number of hits: 10 ) |
| 22 | 5510 | 9 | 1 | 333 | 1 | 5621.0, 5588.0, 5375.0, 5261.0, 5430.0, 5436.0, 5705.0, 5698.0, 5371.0, 5254.0, 5307.0, 5682.0, 5364.0, 5435.0, 5559.0, 5628.0, 5343.0, 5361.0, 5582.0, 5331.0, 5416.0, 5415.0, 5510.0, 5629.0, 5442.0, 5395.0, 5549.0, 5382.0, 5525.0, 5434.0, 5422.0, 5535.0, 5492.0, 5396.0, 5545.0, 5542.0, 5585.0, 5666.0, 5440.0, 5465.0, 5281.0, 5301.0, 5286.0, 5649.0, 5323.0, 5572.0, 5690.0, 5488.0, 5394.0, 5574.0, 5470.0, 5570.0, 5380.0, 5717.0, 5547.0, 5376.0, 5579.0, 5295.0, 5340.0, 5437.0, 5327.0, 5532.0, 5296.0, 5283.0, 5601.0, 5423.0, 5377.0, 5515.0, 5560.0, 5691.0, 5424.0, 5402.0, 5277.0, 5432.0, 5637.0, 5667.0, 5263.0, 5363.0, 5618.0, 5288.0, 5584.0, 5498.0, 5448.0, 5285.0, 5493.0, 5590.0, 5617.0, 5519.0, 5520.0, 5291.0, 5541.0, 5496.0, 5370.0, 5403.0, 5332.0, 5454.0, 5509.0, 5648.0, 5476.0, 5410.0<br>(number of hits: 10 ) |
| 23 | 5510 | 9 | 1 | 333 | 1 | 5687.0, 5628.0, 5581.0, 5262.0, 5360.0, 5388.0, 5351.0, 5686.0, 5442.0, 5482.0, 5489.0, 5408.0, 5541.0, 5658.0, 5666.0, 5576.0, 5386.0, 5702.0, 5564.0, 5560.0, 5504.0, 5369.0, 5636.0, 5409.0, 5355.0, 5623.0, 5429.0, 5383.0, 5538.0, 5551.0, 5461.0, 5401.0, 5498.0, 5523.0, 5271.0, 5591.0, 5632.0, 5600.0, 5514.0, 5261.0, 5395.0, 5647.0, 5634.0, 5566.0, 5270.0, 5713.0, 5460.0, 5421.0, 5354.0, 5705.0, 5361.0, 5604.0, 5607.0, 5431.0, 5483.0, 5349.0, 5651.0, 5646.0, 5680.0, 5542.0, 5260.0, 5545.0, 5324.0, 5555.0, 5508.0,                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5269.0, 5573.0, 5419.0, 5459.0, 5688.0, 5582.0, 5672.0, 5554.0, 5539.0, 5679.0, 5412.0, 5525.0, 5336.0, 5486.0, 5402.0, 5650.0, 5456.0, 5644.0, 5415.0, 5268.0, 5301.0, 5377.0, 5598.0, 5676.0, 5321.0, 5300.0, 5606.0, 5453.0, 5549.0, 5603.0, 5350.0, 5673.0, 5274.0, 5254.0, 5413.0<br>(number of hits: 6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 24 | 5510 | 9 | 1 | 333 | 1 | 5519.0, 5347.0, 5630.0, 5350.0, 5425.0, 5263.0, 5452.0, 5324.0, 5430.0, 5592.0, 5270.0, 5552.0, 5652.0, 5480.0, 5387.0, 5478.0, 5619.0, 5614.0, 5316.0, 5463.0, 5284.0, 5435.0, 5626.0, 5695.0, 5475.0, 5576.0, 5540.0, 5514.0, 5314.0, 5346.0, 5560.0, 5642.0, 5656.0, 5356.0, 5490.0, 5359.0, 5717.0, 5590.0, 5325.0, 5509.0, 5533.0, 5283.0, 5661.0, 5663.0, 5613.0, 5294.0, 5373.0, 5300.0, 5625.0, 5468.0, 5715.0, 5319.0, 5453.0, 5666.0, 5546.0, 5428.0, 5597.0, 5696.0, 5469.0, 5280.0, 5575.0, 5262.0, 5704.0, 5570.0, 5518.0, 5492.0, 5392.0, 5555.0, 5554.0, 5605.0, 5422.0, 5364.0, 5716.0, 5326.0, 5537.0, 5676.0, 5535.0, 5267.0, 5399.0, 5493.0, 5466.0, 5620.0, 5328.0, 5668.0, 5719.0, 5718.0, 5516.0, 5628.0, 5579.0, 5298.0, 5694.0, 5381.0, 5698.0, 5543.0, 5400.0, 5584.0, 5393.0, 5472.0, 5547.0, 5405.0<br>(number of hits: 7) |
| 25 | 5510 | 9 | 1 | 333 | 1 | 5299.0, 5364.0, 5625.0, 5647.0, 5433.0, 5666.0, 5713.0, 5494.0, 5569.0, 5272.0, 5279.0, 5520.0, 5708.0, 5449.0, 5355.0, 5503.0, 5546.0, 5305.0, 5349.0, 5404.0, 5287.0, 5517.0, 5545.0, 5467.0, 5444.0, 5419.0, 5475.0, 5504.0, 5684.0, 5447.0, 5436.0, 5680.0, 5290.0, 5482.0, 5375.0, 5435.0, 5486.0, 5438.0, 5391.0, 5379.0, 5320.0, 5703.0, 5636.0, 5586.0, 5534.0, 5723.0, 5260.0, 5405.0, 5276.0, 5485.0, 5603.0, 5340.0, 5514.0, 5376.0, 5298.0, 5571.0, 5675.0, 5414.0, 5371.0, 5274.0, 5413.0, 5512.0, 5256.0, 5408.0, 5650.0, 5593.0, 5263.0, 5606.0, 5254.0, 5428.0, 5353.0, 5411.0, 5643.0, 5704.0, 5622.0, 5398.0, 5291.0, 5665.0, 5430.0, 5616.0, 5629.0, 5432.0, 5556.0, 5649.0, 5682.0, 5720.0, 5555.0, 5599.0, 5459.0, 5648.0, 5686.0, 5664.0, 5605.0, 5529.0, 5694.0, 5420.0, 5608.0, 5600.0, 5333.0, 5257.0<br>(number of hits: 7) |
| 26 | 5510 | 9 | 1 | 333 | 1 | 5576.0, 5451.0, 5482.0, 5625.0, 5720.0, 5586.0, 5420.0, 5400.0, 5587.0, 5352.0, 5522.0, 5618.0, 5476.0, 5268.0, 5402.0, 5555.0, 5452.0, 5633.0, 5604.0, 5681.0, 5332.0, 5548.0, 5502.0, 5603.0, 5687.0, 5394.0, 5634.0, 5382.0, 5702.0, 5273.0, 5621.0, 5303.0, 5423.0, 5413.0, 5456.0, 5518.0, 5398.0, 5531.0, 5463.0, 5699.0, 5319.0, 5358.0, 5652.0, 5414.0, 5584.0, 5496.0, 5538.0, 5628.0, 5651.0, 5286.0,                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5438.0, 5282.0, 5472.0, 5290.0, 5344.0, 5670.0, 5596.0, 5440.0, 5460.0, 5654.0, 5624.0, 5251.0, 5698.0, 5709.0, 5543.0, 5533.0, 5663.0, 5638.0, 5612.0, 5416.0, 5349.0, 5711.0, 5564.0, 5682.0, 5262.0, 5561.0, 5458.0, 5410.0, 5620.0, 5342.0, 5387.0, 5686.0, 5370.0, 5579.0, 5269.0, 5703.0, 5439.0, 5465.0, 5270.0, 5552.0, 5511.0, 5551.0, 5553.0, 5285.0, 5694.0, 5328.0, 5610.0, 5384.0, 5595.0, 5715.0<br>(number of hits: 5)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 27 | 5510 | 9 | 1 | 333 | 1 | 5398.0, 5390.0, 5391.0, 5658.0, 5508.0, 5504.0, 5510.0, 5340.0, 5432.0, 5424.0, 5296.0, 5435.0, 5405.0, 5489.0, 5374.0, 5328.0, 5680.0, 5490.0, 5339.0, 5324.0, 5716.0, 5517.0, 5649.0, 5528.0, 5606.0, 5270.0, 5714.0, 5345.0, 5600.0, 5646.0, 5713.0, 5402.0, 5704.0, 5461.0, 5341.0, 5569.0, 5676.0, 5564.0, 5480.0, 5436.0, 5258.0, 5293.0, 5428.0, 5385.0, 5448.0, 5323.0, 5651.0, 5543.0, 5689.0, 5635.0, 5684.0, 5706.0, 5535.0, 5414.0, 5572.0, 5557.0, 5506.0, 5310.0, 5277.0, 5411.0, 5394.0, 5579.0, 5696.0, 5333.0, 5442.0, 5487.0, 5434.0, 5250.0, 5524.0, 5559.0, 5722.0, 5521.0, 5425.0, 5515.0, 5332.0, 5594.0, 5441.0, 5308.0, 5621.0, 5382.0, 5685.0, 5450.0, 5268.0, 5479.0, 5292.0, 5522.0, 5287.0, 5350.0, 5634.0, 5318.0, 5380.0, 5470.0, 5275.0, 5359.0, 5492.0, 5516.0, 5690.0, 5409.0, 5362.0, 5710.0<br>(number of hits: 11) |
| 28 | 5510 | 9 | 1 | 333 | 1 | 5498.0, 5311.0, 5629.0, 5458.0, 5530.0, 5456.0, 5278.0, 5572.0, 5365.0, 5372.0, 5724.0, 5583.0, 5597.0, 5490.0, 5706.0, 5413.0, 5276.0, 5324.0, 5547.0, 5381.0, 5503.0, 5258.0, 5307.0, 5663.0, 5306.0, 5592.0, 5689.0, 5367.0, 5600.0, 5679.0, 5548.0, 5698.0, 5361.0, 5610.0, 5614.0, 5550.0, 5722.0, 5578.0, 5598.0, 5380.0, 5672.0, 5556.0, 5499.0, 5485.0, 5437.0, 5508.0, 5337.0, 5650.0, 5355.0, 5616.0, 5454.0, 5630.0, 5303.0, 5719.0, 5662.0, 5251.0, 5342.0, 5415.0, 5296.0, 5661.0, 5523.0, 5542.0, 5419.0, 5580.0, 5391.0, 5625.0, 5714.0, 5291.0, 5363.0, 5384.0, 5559.0, 5436.0, 5271.0, 5686.0, 5495.0, 5668.0, 5517.0, 5566.0, 5273.0, 5585.0, 5299.0, 5648.0, 5407.0, 5532.0, 5623.0, 5451.0, 5527.0, 5442.0, 5279.0, 5460.0, 5622.0, 5310.0, 5362.0, 5484.0, 5576.0, 5379.0, 5647.0, 5364.0, 5346.0, 5554.0<br>(number of hits: 8)  |
| 29 | 5510 | 9 | 1 | 333 | 1 | 5470.0, 5253.0, 5258.0, 5579.0, 5701.0, 5369.0, 5545.0, 5722.0, 5333.0, 5319.0, 5617.0, 5665.0, 5515.0, 5692.0, 5353.0, 5498.0, 5484.0, 5590.0, 5534.0, 5706.0, 5292.0, 5531.0, 5557.0, 5698.0, 5634.0, 5379.0, 5385.0, 5347.0, 5261.0, 5591.0, 5647.0, 5521.0, 5294.0, 5416.0, 5669.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5286.0, 5382.0, 5712.0, 5250.0, 5266.0, 5624.0, 5432.0, 5392.0, 5456.0, 5396.0, 5642.0, 5377.0, 5676.0, 5589.0, 5593.0, 5556.0, 5662.0, 5519.0, 5533.0, 5325.0, 5404.0, 5596.0, 5305.0, 5563.0, 5354.0, 5394.0, 5409.0, 5444.0, 5581.0, 5713.0, 5351.0, 5473.0, 5493.0, 5654.0, 5418.0, 5338.0, 5272.0, 5621.0, 5599.0, 5410.0, 5298.0, 5357.0, 5267.0, 5507.0, 5609.0, 5383.0, 5332.0, 5643.0, 5442.0, 5468.0, 5546.0, 5334.0, 5526.0, 5350.0, 5259.0, 5586.0, 5690.0, 5287.0, 5716.0, 5658.0, 5301.0, 5311.0, 5400.0, 5256.0, 5381.0<br>(number of hits: 7 )                                                                                                                                                                                                                                                                                          |
| 30 | 5510 | 9 | 1 | 333 | 1 | 5598.0, 5380.0, 5642.0, 5641.0, 5640.0, 5479.0, 5539.0, 5434.0, 5444.0, 5589.0, 5354.0, 5261.0, 5312.0, 5327.0, 5504.0, 5433.0, 5386.0, 5651.0, 5310.0, 5622.0, 5510.0, 5657.0, 5425.0, 5290.0, 5591.0, 5378.0, 5555.0, 5392.0, 5583.0, 5687.0, 5307.0, 5296.0, 5659.0, 5606.0, 5714.0, 5423.0, 5455.0, 5311.0, 5663.0, 5502.0, 5585.0, 5418.0, 5540.0, 5417.0, 5720.0, 5536.0, 5660.0, 5356.0, 5458.0, 5524.0, 5604.0, 5383.0, 5388.0, 5393.0, 5560.0, 5661.0, 5331.0, 5435.0, 5278.0, 5603.0, 5476.0, 5484.0, 5493.0, 5464.0, 5381.0, 5688.0, 5317.0, 5546.0, 5697.0, 5677.0, 5678.0, 5700.0, 5628.0, 5468.0, 5685.0, 5367.0, 5515.0, 5513.0, 5518.0, 5385.0, 5289.0, 5514.0, 5335.0, 5600.0, 5672.0, 5357.0, 5339.0, 5610.0, 5308.0, 5608.0, 5488.0, 5654.0, 5263.0, 5291.0, 5424.0, 5350.0, 5285.0, 5497.0, 5650.0, 5420.0<br>(number of hits: 10 ) |

**5530 MHz, 80 MHz Bandwidth**

| <b>Radar Signal Type</b>      | <b>Waveform/Trial Number</b> | <b>Detection (%)</b> | <b>Limit (%)</b> | <b>Pass/Fail</b> |
|-------------------------------|------------------------------|----------------------|------------------|------------------|
| <b>Type 1A/1B</b>             | 30                           | 100 %                | 60%              | Pass             |
| <b>Type 2</b>                 | 30                           | 100 %                | 60%              | Pass             |
| <b>Type 3</b>                 | 30                           | 90 %                 | 60%              | Pass             |
| <b>Type 4</b>                 | 30                           | 83.3 %               | 60%              | Pass             |
| <b>Aggregate (Type1 to 4)</b> | 120                          | 91.1 %               | 80%              | Pass             |
| <b>Type 5</b>                 | 30                           | 100 %                | 80%              | Pass             |
| <b>Type 6</b>                 | 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**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5530            | 59                 | 1                       | 898             | 1                              |
| 2                                            | 5530            | 72                 | 1                       | 738             | 1                              |
| 3                                            | 5530            | 57                 | 1                       | 938             | 1                              |
| 4                                            | 5530            | 99                 | 1                       | 538             | 1                              |
| 5                                            | 5530            | 61                 | 1                       | 878             | 1                              |
| 6                                            | 5492            | 65                 | 1                       | 818             | 1                              |
| 7                                            | 5492            | 62                 | 1                       | 858             | 1                              |
| 8                                            | 5492            | 70                 | 1                       | 758             | 1                              |
| 9                                            | 5492            | 83                 | 1                       | 638             | 1                              |
| 10                                           | 5492            | 74                 | 1                       | 718             | 1                              |
| 11                                           | 5568            | 92                 | 1                       | 578             | 1                              |
| 12                                           | 5568            | 68                 | 1                       | 778             | 1                              |
| 13                                           | 5568            | 95                 | 1                       | 558             | 1                              |
| 14                                           | 5568            | 86                 | 1                       | 618             | 1                              |
| 15                                           | 5568            | 67                 | 1                       | 798             | 1                              |
| 16                                           | 5530            | 21                 | 1                       | 2628            | 1                              |
| 17                                           | 5530            | 61                 | 1                       | 874             | 1                              |
| 18                                           | 5530            | 19                 | 1                       | 2863            | 1                              |
| 19                                           | 5530            | 51                 | 1                       | 1044            | 1                              |
| 20                                           | 5530            | 24                 | 1                       | 2261            | 1                              |
| 21                                           | 5492            | 51                 | 1                       | 1050            | 1                              |
| 22                                           | 5492            | 43                 | 1                       | 1248            | 1                              |
| 23                                           | 5492            | 27                 | 1                       | 2020            | 1                              |
| 24                                           | 5492            | 22                 | 1                       | 2490            | 1                              |
| 25                                           | 5492            | 59                 | 1                       | 903             | 1                              |
| 26                                           | 5568            | 23                 | 1                       | 2398            | 1                              |
| 27                                           | 5568            | 19                 | 1                       | 2924            | 1                              |
| 28                                           | 5568            | 58                 | 1                       | 920             | 1                              |
| 29                                           | 5568            | 31                 | 1                       | 1735            | 1                              |
| 30                                           | 5568            | 19                 | 1                       | 2817            | 1                              |
| <b>Detection Percentage: 100 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-2 Radar Type 2 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5530            | 23                 | 1.4                     | 163             | 1                              |
| 2                                            | 5530            | 24                 | 4.2                     | 223             | 1                              |
| 3                                            | 5530            | 23                 | 5                       | 216             | 1                              |
| 4                                            | 5530            | 25                 | 2.2                     | 212             | 1                              |
| 5                                            | 5530            | 28                 | 3.1                     | 206             | 1                              |
| 6                                            | 5530            | 24                 | 3.3                     | 182             | 1                              |
| 7                                            | 5530            | 26                 | 1.8                     | 204             | 1                              |
| 8                                            | 5530            | 24                 | 3.4                     | 193             | 1                              |
| 9                                            | 5530            | 27                 | 2.7                     | 188             | 1                              |
| 10                                           | 5530            | 24                 | 2.2                     | 191             | 1                              |
| 11                                           | 5492            | 24                 | 3                       | 194             | 1                              |
| 12                                           | 5492            | 25                 | 2.8                     | 213             | 1                              |
| 13                                           | 5492            | 27                 | 4.9                     | 166             | 1                              |
| 14                                           | 5492            | 26                 | 3.8                     | 155             | 1                              |
| 15                                           | 5492            | 28                 | 2.4                     | 185             | 1                              |
| 16                                           | 5492            | 23                 | 3.3                     | 171             | 1                              |
| 17                                           | 5492            | 25                 | 4.3                     | 170             | 1                              |
| 18                                           | 5492            | 27                 | 2                       | 226             | 1                              |
| 19                                           | 5492            | 24                 | 4.3                     | 181             | 1                              |
| 20                                           | 5492            | 23                 | 4.9                     | 229             | 1                              |
| 21                                           | 5568            | 25                 | 3.2                     | 179             | 1                              |
| 22                                           | 5568            | 28                 | 4.3                     | 216             | 1                              |
| 23                                           | 5568            | 27                 | 2                       | 202             | 1                              |
| 24                                           | 5568            | 29                 | 1                       | 210             | 1                              |
| 25                                           | 5568            | 24                 | 3.3                     | 209             | 1                              |
| 26                                           | 5568            | 23                 | 1.2                     | 176             | 1                              |
| 27                                           | 5568            | 29                 | 4.5                     | 200             | 1                              |
| 28                                           | 5568            | 25                 | 1.1                     | 202             | 1                              |
| 29                                           | 5568            | 26                 | 2                       | 200             | 1                              |
| 30                                           | 5568            | 23                 | 3.1                     | 171             | 1                              |
| <b>Detection Percentage: 100 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-3 Radar Type 3 Statistical Performance**

| <b>Trial #</b>                              | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|---------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                           | 5530            | 18                 | 8.1                     | 433             | 1                              |
| 2                                           | 5530            | 16                 | 8                       | 231             | 1                              |
| 3                                           | 5530            | 17                 | 6.7                     | 292             | 1                              |
| 4                                           | 5530            | 18                 | 8.2                     | 293             | 1                              |
| 5                                           | 5530            | 17                 | 9.9                     | 347             | 1                              |
| 6                                           | 5530            | 18                 | 9.9                     | 413             | 1                              |
| 7                                           | 5530            | 17                 | 7.9                     | 286             | 1                              |
| 8                                           | 5530            | 18                 | 9.7                     | 368             | 1                              |
| 9                                           | 5530            | 16                 | 9.2                     | 335             | 1                              |
| 10                                          | 5530            | 16                 | 9.4                     | 307             | 1                              |
| 11                                          | 5492            | 16                 | 9.9                     | 260             | 1                              |
| 12                                          | 5492            | 17                 | 7.4                     | 228             | 1                              |
| 13                                          | 5492            | 17                 | 6.9                     | 424             | 1                              |
| 14                                          | 5492            | 16                 | 8.8                     | 441             | 1                              |
| 15                                          | 5492            | 16                 | 9                       | 262             | 1                              |
| 16                                          | 5492            | 18                 | 9.9                     | 342             | 1                              |
| 17                                          | 5492            | 16                 | 7.3                     | 309             | 1                              |
| 18                                          | 5492            | 18                 | 8.4                     | 471             | 1                              |
| 19                                          | 5492            | 17                 | 9.4                     | 368             | 1                              |
| 20                                          | 5492            | 16                 | 8                       | 464             | 1                              |
| 21                                          | 5568            | 16                 | 7.5                     | 244             | 1                              |
| 22                                          | 5568            | 16                 | 8.8                     | 313             | 0                              |
| 23                                          | 5568            | 16                 | 7.7                     | 290             | 1                              |
| 24                                          | 5568            | 16                 | 6                       | 373             | 1                              |
| 25                                          | 5568            | 16                 | 9.7                     | 288             | 0                              |
| 26                                          | 5568            | 18                 | 7.4                     | 243             | 0                              |
| 27                                          | 5568            | 17                 | 9.5                     | 498             | 1                              |
| 28                                          | 5568            | 17                 | 8.2                     | 219             | 1                              |
| 29                                          | 5568            | 17                 | 7                       | 447             | 1                              |
| 30                                          | 5568            | 16                 | 6.4                     | 269             | 1                              |
| <b>Detection Percentage: 90 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-4 Radar Type 4 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5530            | 13                 | 15.9                    | 397             | 1                              |
| 2                                             | 5530            | 13                 | 18.4                    | 401             | 1                              |
| 3                                             | 5530            | 13                 | 16.9                    | 412             | 1                              |
| 4                                             | 5530            | 14                 | 16.3                    | 492             | 0                              |
| 5                                             | 5530            | 13                 | 16.3                    | 386             | 1                              |
| 6                                             | 5530            | 16                 | 12.9                    | 337             | 0                              |
| 7                                             | 5530            | 13                 | 18.6                    | 454             | 0                              |
| 8                                             | 5530            | 15                 | 18.8                    | 308             | 1                              |
| 9                                             | 5530            | 14                 | 11.8                    | 263             | 1                              |
| 10                                            | 5530            | 13                 | 19.1                    | 269             | 1                              |
| 11                                            | 5492            | 16                 | 12                      | 483             | 1                              |
| 12                                            | 5492            | 15                 | 15.3                    | 309             | 1                              |
| 13                                            | 5492            | 14                 | 13.2                    | 345             | 1                              |
| 14                                            | 5492            | 16                 | 18                      | 341             | 1                              |
| 15                                            | 5492            | 14                 | 15                      | 373             | 1                              |
| 16                                            | 5492            | 15                 | 16.3                    | 359             | 1                              |
| 17                                            | 5492            | 12                 | 19.9                    | 209             | 0                              |
| 18                                            | 5492            | 14                 | 15.8                    | 449             | 1                              |
| 19                                            | 5492            | 16                 | 12.6                    | 282             | 1                              |
| 20                                            | 5492            | 14                 | 14.8                    | 378             | 1                              |
| 21                                            | 5568            | 14                 | 14.3                    | 388             | 1                              |
| 22                                            | 5568            | 12                 | 14.9                    | 246             | 1                              |
| 23                                            | 5568            | 12                 | 17.2                    | 298             | 1                              |
| 24                                            | 5568            | 15                 | 19.5                    | 475             | 1                              |
| 25                                            | 5568            | 14                 | 18.6                    | 457             | 1                              |
| 26                                            | 5568            | 13                 | 16.8                    | 219             | 1                              |
| 27                                            | 5568            | 12                 | 15.8                    | 477             | 1                              |
| 28                                            | 5568            | 14                 | 15.7                    | 296             | 1                              |
| 29                                            | 5568            | 16                 | 19.9                    | 208             | 1                              |
| 30                                            | 5568            | 13                 | 15.8                    | 200             | 0                              |
| <b>Detection Percentage: 83.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-5 Radar Type 5 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------------------|
| 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                                           | 5500.0          | 1                              |
| 12                                           | 5499.6          | 1                              |
| 13                                           | 5495.2          | 1                              |
| 14                                           | 5494.4          | 1                              |
| 15                                           | 5496.0          | 1                              |
| 16                                           | 5499.6          | 1                              |
| 17                                           | 5497.2          | 1                              |
| 18                                           | 5496.8          | 1                              |
| 19                                           | 5498.8          | 1                              |
| 20                                           | 5497.6          | 1                              |
| 21                                           | 5561.2          | 1                              |
| 22                                           | 5564.8          | 1                              |
| 23                                           | 5562.8          | 1                              |
| 24                                           | 5562.0          | 1                              |
| 25                                           | 5563.2          | 1                              |
| 26                                           | 5566.0          | 1                              |
| 27                                           | 5563.2          | 1                              |
| 28                                           | 5564.8          | 1                              |
| 29                                           | 5560.4          | 1                              |
| 30                                           | 5561.2          | 1                              |
| <b>Detection Percentage: 100 % (&gt;80%)</b> |                 |                                |

## Bin5 Statistics 1

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 15          | 99.3             | -                      | -                      | 0.467694       | 1                       |
| 1       | 2     | 15          | 90.3             | 1533                   | -                      | 1.023623       |                         |
| 2       | 2     | 15          | 83.6             | 1468                   | -                      | 1.814204       |                         |
| 3       | 3     | 15          | 57.4             | 1369                   | 1823                   | 3.069421       |                         |
| 4       | 2     | 15          | 98.9             | 1941                   | -                      | 4.063031       |                         |
| 5       | 2     | 15          | 53.3             | 1525                   | -                      | 4.287332       |                         |
| 6       | 3     | 15          | 96.9             | 1255                   | 1083                   | 5.516633       |                         |
| 7       | 3     | 15          | 89.5             | 1620                   | 1710                   | 6.69857        |                         |
| 8       | 1     | 15          | 72.1             | -                      | -                      | 7.642617       |                         |
| 9       | 3     | 15          | 63.8             | 1629                   | 1636                   | 7.826848       |                         |
| 10      | 1     | 15          | 54.3             | -                      | -                      | 9.294887       |                         |
| 11      | 2     | 15          | 68               | 1751                   | -                      | 10.176245      |                         |
| 12      | 2     | 15          | 99.7             | 1485                   | -                      | 10.676938      |                         |
| 13      | 1     | 15          | 66.4             | -                      | -                      | 11.922899      |                         |

## 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     | 15          | 59.7             | -                      | -                      | 0.962499       | 1                       |
| 1       | 1     | 15          | 61.2             | -                      | -                      | 1.676318       |                         |
| 2       | 3     | 15          | 58               | 1110                   | 1770                   | 2.442112       |                         |
| 3       | 2     | 15          | 95.7             | 1131                   | -                      | 4.260786       |                         |
| 4       | 3     | 15          | 56.2             | 1632                   | 1151                   | 5.111074       |                         |
| 5       | 3     | 15          | 52.3             | 1793                   | 1790                   | 7.154571       |                         |
| 6       | 1     | 15          | 86.1             | -                      | -                      | 8.114136       |                         |
| 7       | 3     | 15          | 93.1             | 1009                   | 1503                   | 8.823592       |                         |
| 8       | 3     | 15          | 89.7             | 1045                   | 1819                   | 10.438008      |                         |
| 9       | 2     | 15          | 76               | 1303                   | -                      | 11.41003       |                         |

## 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     | 8           | 92.3             | 1217                   | -                      | 0.535119       | 1                       |
| 1       | 2     | 8           | 86.5             | 1807                   | -                      | 1.368653       |                         |
| 2       | 3     | 8           | 87.2             | 1219                   | 1034                   | 3.225394       |                         |
| 3       | 2     | 8           | 63               | 1821                   | -                      | 3.362926       |                         |
| 4       | 2     | 8           | 96.7             | 1443                   | -                      | 4.464287       |                         |
| 5       | 2     | 8           | 98.5             | 1867                   | -                      | 6.305641       |                         |
| 6       | 2     | 8           | 65.9             | 1857                   | -                      | 6.687477       |                         |
| 7       | 2     | 8           | 95.2             | 1344                   | -                      | 7.849998       |                         |
| 8       | 2     | 8           | 83.3             | 1381                   | -                      | 9.746395       |                         |
| 9       | 3     | 8           | 69.1             | 1162                   | 1575                   | 10.117072      |                         |
| 10      | 1     | 8           | 73.1             | -                      | -                      | 10.916278      |                         |

## 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     | 13          | 58.2             | -                      | -                      | 0.589479       | 1                       |
| 1       | 1     | 13          | 62.4             | -                      | -                      | 1.59775        |                         |
| 2       | 2     | 13          | 91.7             | 1812                   | -                      | 2.342033       |                         |
| 3       | 1     | 13          | 77.5             | -                      | -                      | 3.033299       |                         |
| 4       | 2     | 13          | 52.9             | 1967                   | -                      | 4.250398       |                         |
| 5       | 2     | 13          | 88               | 1041                   | -                      | 4.912023       |                         |
| 6       | 2     | 13          | 70.5             | 1854                   | -                      | 5.306579       |                         |
| 7       | 1     | 13          | 51.5             | -                      | -                      | 6.814581       |                         |
| 8       | 3     | 13          | 95.6             | 1008                   | 1134                   | 7.062983       |                         |
| 9       | 2     | 13          | 59               | 1919                   | -                      | 8.377737       |                         |
| 10      | 2     | 13          | 51.4             | 1413                   | -                      | 8.908143       |                         |
| 11      | 2     | 13          | 65.9             | 1377                   | -                      | 9.48126        |                         |
| 12      | 3     | 13          | 85               | 1028                   | 1581                   | 10.723959      |                         |
| 13      | 3     | 13          | 87.4             | 1809                   | 1651                   | 11.695153      |                         |

## Bin5 Statistics 5

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 14          | 88.3             | -                      | -                      | 0.517412       | 1                       |
| 1       | 2     | 14          | 97.1             | 1487                   | -                      | 1.242685       |                         |
| 2       | 1     | 14          | 98.2             | -                      | -                      | 2.482087       |                         |
| 3       | 2     | 14          | 60.5             | 1198                   | -                      | 3.522781       |                         |
| 4       | 2     | 14          | 70.7             | 1799                   | -                      | 4.438219       |                         |
| 5       | 1     | 14          | 99.4             | -                      | -                      | 5.301108       |                         |
| 6       | 3     | 14          | 97.8             | 1512                   | 1057                   | 5.570259       |                         |
| 7       | 1     | 14          | 92.3             | -                      | -                      | 7.088588       |                         |
| 8       | 2     | 14          | 79               | 1811                   | -                      | 8.072477       |                         |
| 9       | 1     | 14          | 82.5             | -                      | -                      | 8.787914       |                         |
| 10      | 2     | 14          | 54.5             | 1075                   | -                      | 9.559139       |                         |
| 11      | 1     | 14          | 51.6             | -                      | -                      | 11.059484      |                         |
| 12      | 2     | 14          | 99.9             | 1273                   | -                      | 11.266212      |                         |

## 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     | 10          | 87.1             | 1791                   | 1937                   | 0.051179       | 1                       |
| 1       | 2     | 10          | 95.7             | 1208                   | -                      | 1.083513       |                         |
| 2       | 2     | 10          | 88.4             | 1529                   | -                      | 2.114127       |                         |
| 3       | 1     | 10          | 53.2             | -                      | -                      | 2.629282       |                         |
| 4       | 3     | 10          | 50.4             | 1907                   | 1531                   | 3.716298       |                         |
| 5       | 2     | 10          | 68.1             | 1421                   | -                      | 5.041828       |                         |
| 6       | 2     | 10          | 78.2             | 1023                   | -                      | 5.705862       |                         |
| 7       | 2     | 10          | 95.7             | 1440                   | -                      | 6.338915       |                         |
| 8       | 2     | 10          | 87               | 1772                   | -                      | 7.289108       |                         |
| 9       | 2     | 10          | 91.1             | 1596                   | -                      | 8.209142       |                         |
| 10      | 2     | 10          | 86.1             | 1641                   | -                      | 8.611588       |                         |
| 11      | 2     | 10          | 53.9             | 1586                   | -                      | 9.495484       |                         |
| 12      | 2     | 10          | 77.3             | 1920                   | -                      | 10.521972      |                         |
| 13      | 3     | 10          | 86.9             | 1599                   | 1435                   | 11.813994      |                         |

## 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          | 73.2             | 1088                   | -                      | 0.519986       | 1                       |
| 1       | 3     | 14          | 79.9             | 1988                   | 1188                   | 1.317078       |                         |
| 2       | 2     | 14          | 84.5             | 1854                   | -                      | 1.730982       |                         |
| 3       | 2     | 14          | 53.4             | 1712                   | -                      | 3.039568       |                         |
| 4       | 3     | 14          | 82               | 1621                   | 1535                   | 3.711364       |                         |
| 5       | 2     | 14          | 64.7             | 1243                   | -                      | 4.960913       |                         |
| 6       | 2     | 14          | 92.7             | 1775                   | -                      | 5.358269       |                         |
| 7       | 2     | 14          | 88.1             | 1188                   | -                      | 6.108521       |                         |
| 8       | 3     | 14          | 93.7             | 1148                   | 1619                   | 7.120373       |                         |
| 9       | 2     | 14          | 98.5             | 1380                   | -                      | 8.452176       |                         |
| 10      | 2     | 14          | 92               | 1371                   | -                      | 8.712074       |                         |
| 11      | 3     | 14          | 95.9             | 1493                   | 1127                   | 9.920473       |                         |
| 12      | 3     | 14          | 71               | 1133                   | 1613                   | 11.120515      |                         |
| 13      | 2     | 14          | 57.5             | 1489                   | -                      | 11.923283      |                         |

## 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     | 13          | 85.6             | -                      | -                      | 0.649869       | 1                       |
| 1       | 1     | 13          | 96.3             | -                      | -                      | 1.322807       |                         |
| 2       | 2     | 13          | 84.1             | 1347                   | -                      | 2.031965       |                         |
| 3       | 2     | 13          | 74.3             | 1863                   | -                      | 2.983656       |                         |
| 4       | 2     | 13          | 98.3             | 1091                   | -                      | 3.264086       |                         |
| 5       | 2     | 13          | 95.7             | 1134                   | -                      | 4.242475       |                         |
| 6       | 3     | 13          | 61.4             | 1051                   | 1778                   | 4.668472       |                         |
| 7       | 2     | 13          | 85.6             | 1365                   | -                      | 5.359469       |                         |
| 8       | 2     | 13          | 52.3             | 1827                   | -                      | 6.20518        |                         |
| 9       | 3     | 13          | 65.8             | 1072                   | 1793                   | 7.259331       |                         |
| 10      | 2     | 13          | 60.3             | 1869                   | -                      | 8.051111       |                         |
| 11      | 2     | 13          | 99.2             | 1316                   | -                      | 8.834782       |                         |
| 12      | 2     | 13          | 76.3             | 1797                   | -                      | 9.466664       |                         |
| 13      | 1     | 13          | 67.5             | -                      | -                      | 9.918491       |                         |
| 14      | 2     | 13          | 90.2             | 1148                   | -                      | 11.15638       |                         |
| 15      | 3     | 13          | 85.6             | 1787                   | 1978                   | 11.495551      |                         |

## 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           | 56.9             | -                      | -                      | 0.30596        | 1                       |
| 1       | 1     | 9           | 85.1             | -                      | -                      | 1.258705       |                         |
| 2       | 2     | 9           | 60.9             | 1338                   | -                      | 2.461153       |                         |
| 3       | 2     | 9           | 75.6             | 1684                   | -                      | 3.736228       |                         |
| 4       | 3     | 9           | 85.6             | 1547                   | 1288                   | 4.633409       |                         |
| 5       | 3     | 9           | 51.6             | 1098                   | 1244                   | 5.306593       |                         |
| 6       | 3     | 9           | 94.8             | 1375                   | 1475                   | 6.325944       |                         |
| 7       | 2     | 9           | 87.7             | 1443                   | -                      | 7.891235       |                         |
| 8       | 2     | 9           | 81.2             | 1349                   | -                      | 8.662708       |                         |
| 9       | 2     | 9           | 55.7             | 1329                   | -                      | 9.205759       |                         |
| 10      | 2     | 9           | 78.7             | 1844                   | -                      | 10.31732       |                         |
| 11      | 3     | 9           | 57.7             | 1964                   | 1071                   | 11.241549      |                         |

## 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           | 85.8             | -                      | -                      | 0.812383       | 1                       |
| 1       | 2     | 7           | 74.6             | 1445                   | -                      | 1.806879       |                         |
| 2       | 2     | 7           | 89.3             | 1541                   | -                      | 2.085018       |                         |
| 3       | 2     | 7           | 69.6             | 1361                   | -                      | 3.886931       |                         |
| 4       | 1     | 7           | 83.2             | -                      | -                      | 4.1483         |                         |
| 5       | 3     | 7           | 62.8             | 1963                   | 1025                   | 5.122088       |                         |
| 6       | 2     | 7           | 95.6             | 1198                   | -                      | 6.268015       |                         |
| 7       | 3     | 7           | 53.7             | 1511                   | 1770                   | 7.120809       |                         |
| 8       | 2     | 7           | 61.5             | 1491                   | -                      | 8.408739       |                         |
| 9       | 2     | 7           | 70.6             | 1948                   | -                      | 9.0901         |                         |
| 10      | 2     | 7           | 75.7             | 1786                   | -                      | 10.011666      |                         |
| 11      | 2     | 7           | 62.6             | 1782                   | -                      | 11.507512      |                         |

## Bin5 Statistics 11

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 20          | 55.4             | 1118                   | -                      | 0.185976       | 1                       |
| 1       | 3     | 20          | 95.4             | 1894                   | 1166                   | 1.010551       |                         |
| 2       | 3     | 20          | 72.2             | 1012                   | 1607                   | 1.836715       |                         |
| 3       | 3     | 20          | 89.6             | 1539                   | 1859                   | 2.283441       |                         |
| 4       | 2     | 20          | 66.6             | 1702                   | -                      | 2.938006       |                         |
| 5       | 2     | 20          | 57               | 1496                   | -                      | 3.395311       |                         |
| 6       | 1     | 20          | 65.1             | -                      | -                      | 4.07304        |                         |
| 7       | 1     | 20          | 95               | -                      | -                      | 4.818045       |                         |
| 8       | 2     | 20          | 90.9             | 1938                   | -                      | 5.598541       |                         |
| 9       | 3     | 20          | 94.6             | 1597                   | 1857                   | 6.082552       |                         |
| 10      | 2     | 20          | 70               | 1467                   | -                      | 6.792833       |                         |
| 11      | 3     | 20          | 99.1             | 1364                   | 1072                   | 7.628809       |                         |
| 12      | 2     | 20          | 51.7             | 1267                   | -                      | 8.256589       |                         |
| 13      | 3     | 20          | 71               | 1447                   | 1373                   | 8.859345       |                         |
| 14      | 2     | 20          | 50.8             | 1138                   | -                      | 9.76424        |                         |
| 15      | 1     | 20          | 73.3             | -                      | -                      | 10.651235      |                         |
| 16      | 2     | 20          | 54.8             | 1100                   | -                      | 11.114635      |                         |
| 17      | 2     | 20          | 86.1             | 1475                   | -                      | 11.678493      |                         |

## 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          | 78.4             | 1218                   | -                      | 0.899793       | 1                       |
| 1       | 1     | 19          | 76.1             | -                      | -                      | 1.225157       |                         |
| 2       | 1     | 19          | 97.1             | -                      | -                      | 1.951219       |                         |
| 3       | 1     | 19          | 70.4             | -                      | -                      | 2.841192       |                         |
| 4       | 2     | 19          | 93.5             | 1942                   | -                      | 4.379179       |                         |
| 5       | 1     | 19          | 89               | -                      | -                      | 4.868218       |                         |
| 6       | 1     | 19          | 85.7             | -                      | -                      | 6.044918       |                         |
| 7       | 1     | 19          | 77               | -                      | -                      | 7.221452       |                         |
| 8       | 2     | 19          | 96.7             | 1272                   | -                      | 7.665082       |                         |
| 9       | 2     | 19          | 79.9             | 1470                   | -                      | 8.32217        |                         |
| 10      | 1     | 19          | 99.9             | -                      | -                      | 9.407347       |                         |
| 11      | 1     | 19          | 87.5             | -                      | -                      | 10.212177      |                         |
| 12      | 1     | 19          | 55.5             | -                      | -                      | 11.85886       |                         |

## Bin5 Statistics 13

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 8           | 50.4             | -                      | -                      | 0.663111       | 1                       |
| 1       | 3     | 8           | 65.9             | 1159                   | 1137                   | 1.633719       |                         |
| 2       | 3     | 8           | 81.5             | 1095                   | 1091                   | 1.756956       |                         |
| 3       | 2     | 8           | 63.9             | 1597                   | -                      | 3.284344       |                         |
| 4       | 2     | 8           | 83.3             | 1678                   | -                      | 4.209207       |                         |
| 5       | 1     | 8           | 90.1             | -                      | -                      | 4.430132       |                         |
| 6       | 2     | 8           | 55.5             | 1102                   | -                      | 5.258639       |                         |
| 7       | 2     | 8           | 59.7             | 1413                   | -                      | 6.393          |                         |
| 8       | 2     | 8           | 56.6             | 1780                   | -                      | 7.33715        |                         |
| 9       | 2     | 8           | 60               | 1766                   | -                      | 8.055245       |                         |
| 10      | 2     | 8           | 88.5             | 1046                   | -                      | 9.223737       |                         |
| 11      | 3     | 8           | 77.6             | 1853                   | 1776                   | 9.867444       |                         |
| 12      | 3     | 8           | 62.4             | 1982                   | 1014                   | 10.655738      |                         |
| 13      | 2     | 8           | 94               | 1981                   | -                      | 11.303543      |                         |

## Bin5 Statistics 14

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 6           | 57.2             | 1909                   | -                      | 0.335063       | 1                       |
| 1       | 1     | 6           | 56.5             | -                      | -                      | 0.696245       |                         |
| 2       | 1     | 6           | 77.7             | -                      | -                      | 1.624353       |                         |
| 3       | 2     | 6           | 74.2             | 1903                   | -                      | 2.517044       |                         |
| 4       | 3     | 6           | 84.1             | 1478                   | 1799                   | 2.930349       |                         |
| 5       | 2     | 6           | 51.8             | 1927                   | -                      | 3.885152       |                         |
| 6       | 3     | 6           | 56.6             | 1977                   | 1294                   | 4.034567       |                         |
| 7       | 2     | 6           | 68.5             | 1077                   | -                      | 4.919232       |                         |
| 8       | 1     | 6           | 56.7             | -                      | -                      | 5.834439       |                         |
| 9       | 2     | 6           | 79.3             | 1001                   | -                      | 6.494538       |                         |
| 10      | 2     | 6           | 77.6             | 1296                   | -                      | 6.792593       |                         |
| 11      | 2     | 6           | 82.8             | 1866                   | -                      | 7.667893       |                         |
| 12      | 1     | 6           | 97.6             | -                      | -                      | 8.118053       |                         |
| 13      | 2     | 6           | 87.7             | 1016                   | -                      | 9.21688        |                         |
| 14      | 2     | 6           | 67.7             | 1526                   | -                      | 9.738205       |                         |
| 15      | 2     | 6           | 99.1             | 1149                   | -                      | 10.510904      |                         |
| 16      | 2     | 6           | 82.3             | 1008                   | -                      | 11.309742      |                         |
| 17      | 2     | 6           | 64.1             | 1778                   | -                      | 11.829042      |                         |

## Bin5 Statistics 15

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 10          | 96.6             | 1003                   | 1625                   | 0.178881       | 1                       |
| 1       | 2     | 10          | 66.6             | 1250                   | -                      | 1.36928        |                         |
| 2       | 1     | 10          | 96.1             | -                      | -                      | 2.662982       |                         |
| 3       | 3     | 10          | 66               | 1415                   | 1871                   | 3.073751       |                         |
| 4       | 1     | 10          | 59.7             | -                      | -                      | 4.904809       |                         |
| 5       | 2     | 10          | 75.8             | 1627                   | -                      | 5.376467       |                         |
| 6       | 2     | 10          | 79.6             | 1726                   | -                      | 6.091581       |                         |
| 7       | 3     | 10          | 83.5             | 1486                   | 1154                   | 7.170353       |                         |
| 8       | 1     | 10          | 55               | -                      | -                      | 8.232715       |                         |
| 9       | 1     | 10          | 55.2             | -                      | -                      | 9.038883       |                         |
| 10      | 1     | 10          | 87.7             | -                      | -                      | 10.943398      |                         |
| 11      | 2     | 10          | 52.1             | 1162                   | -                      | 11.204997      |                         |

## 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     | 19          | 77.2             | -                      | -                      | 0.398696       | 1                       |
| 1       | 2     | 19          | 53.4             | 1701                   | -                      | 1.301298       |                         |
| 2       | 1     | 19          | 89.1             | -                      | -                      | 1.378632       |                         |
| 3       | 2     | 19          | 56.5             | 1256                   | -                      | 2.331546       |                         |
| 4       | 2     | 19          | 61.8             | 1385                   | -                      | 2.719556       |                         |
| 5       | 2     | 19          | 70.2             | 1231                   | -                      | 3.415905       |                         |
| 6       | 2     | 19          | 76.7             | 1095                   | -                      | 4.201926       |                         |
| 7       | 3     | 19          | 98.8             | 1236                   | 1737                   | 5.050533       |                         |
| 8       | 3     | 19          | 85.1             | 1205                   | 1285                   | 5.96919        |                         |
| 9       | 2     | 19          | 79.7             | 1864                   | -                      | 6.095555       |                         |
| 10      | 3     | 19          | 93.1             | 1814                   | 1074                   | 6.750763       |                         |
| 11      | 3     | 19          | 83.2             | 1884                   | 1552                   | 7.974355       |                         |
| 12      | 3     | 19          | 90.4             | 1357                   | 1064                   | 8.127668       |                         |
| 13      | 2     | 19          | 64.2             | 1022                   | -                      | 8.733928       |                         |
| 14      | 1     | 19          | 57.4             | -                      | -                      | 9.642542       |                         |
| 15      | 1     | 19          | 80.9             | -                      | -                      | 10.139925      |                         |
| 16      | 2     | 19          | 93.6             | 1411                   | -                      | 10.679296      |                         |
| 17      | 2     | 19          | 95               | 1437                   | -                      | 11.538724      |                         |

## Bin5 Statistics 17

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 13          | 59.8             | 1865                   | -                      | 0.671054       | 1                       |
| 1       | 1     | 13          | 76.6             | -                      | -                      | 1.543722       |                         |
| 2       | 2     | 13          | 50.8             | 1162                   | -                      | 3.003304       |                         |
| 3       | 2     | 13          | 59.9             | 1122                   | -                      | 5.221616       |                         |
| 4       | 2     | 13          | 62.5             | 1709                   | -                      | 6.333626       |                         |
| 5       | 2     | 13          | 65.5             | 1169                   | -                      | 7.680202       |                         |
| 6       | 2     | 13          | 53               | 1753                   | -                      | 9.159262       |                         |
| 7       | 1     | 13          | 73.3             | -                      | -                      | 10.165139      |                         |
| 8       | 2     | 13          | 85.5             | 1403                   | -                      | 11.784195      |                         |

## 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     | 12          | 70.4             | 1649                   | -                      | 0.137649       | 1                       |
| 1       | 2     | 12          | 94.4             | 1669                   | -                      | 0.998846       |                         |
| 2       | 2     | 12          | 84.9             | 1736                   | -                      | 2.031087       |                         |
| 3       | 2     | 12          | 53.7             | 1487                   | -                      | 3.119614       |                         |
| 4       | 2     | 12          | 57.2             | 1180                   | -                      | 3.226002       |                         |
| 5       | 2     | 12          | 74.7             | 1266                   | -                      | 4.412027       |                         |
| 6       | 2     | 12          | 71.1             | 1054                   | -                      | 5.298022       |                         |
| 7       | 1     | 12          | 58.2             | -                      | -                      | 6.331854       |                         |
| 8       | 2     | 12          | 85               | 1703                   | -                      | 7.104832       |                         |
| 9       | 2     | 12          | 53.1             | 1820                   | -                      | 7.921499       |                         |
| 10      | 2     | 12          | 79.4             | 1347                   | -                      | 8.498191       |                         |
| 11      | 1     | 12          | 88.6             | -                      | -                      | 9.296567       |                         |
| 12      | 1     | 12          | 81               | -                      | -                      | 10.179072      |                         |
| 13      | 1     | 12          | 88.4             | -                      | -                      | 11.165241      |                         |
| 14      | 3     | 12          | 84.7             | 1947                   | 1491                   | 11.40182       |                         |

## 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     | 17          | 67.7             | -                      | -                      | 0.2026         | 1                       |
| 1       | 1     | 17          | 66.8             | -                      | -                      | 1.020467       |                         |
| 2       | 3     | 17          | 72.3             | 1741                   | 1044                   | 1.349834       |                         |
| 3       | 1     | 17          | 84.4             | -                      | -                      | 2.139513       |                         |
| 4       | 2     | 17          | 57.6             | 1149                   | -                      | 2.887606       |                         |
| 5       | 2     | 17          | 90.1             | 1980                   | -                      | 3.758998       |                         |
| 6       | 2     | 17          | 70.7             | 1759                   | -                      | 4.164794       |                         |
| 7       | 3     | 17          | 84.5             | 1596                   | 1906                   | 4.696897       |                         |
| 8       | 3     | 17          | 73.6             | 1809                   | 1500                   | 5.928943       |                         |
| 9       | 3     | 17          | 51.3             | 1720                   | 1391                   | 6.276673       |                         |
| 10      | 2     | 17          | 70.5             | 1868                   | -                      | 6.969503       |                         |
| 11      | 1     | 17          | 58               | -                      | -                      | 7.339935       |                         |
| 12      | 2     | 17          | 71.3             | 1208                   | -                      | 8.018518       |                         |
| 13      | 2     | 17          | 56               | 1076                   | -                      | 8.672534       |                         |
| 14      | 2     | 17          | 80.4             | 1172                   | -                      | 9.371579       |                         |
| 15      | 1     | 17          | 63.3             | -                      | -                      | 10.581374      |                         |
| 16      | 3     | 17          | 87.4             | 1576                   | 1871                   | 11.253701      |                         |
| 17      | 3     | 17          | 60.7             | 1249                   | 1065                   | 11.43564       |                         |

## 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     | 14          | 84.2             | 1922                   | 1423                   | 0.618663       | 1                       |
| 1       | 2     | 14          | 74.4             | 1157                   | -                      | 1.039113       |                         |
| 2       | 2     | 14          | 93.9             | 1502                   | -                      | 1.968184       |                         |
| 3       | 1     | 14          | 57.5             | -                      | -                      | 2.976523       |                         |
| 4       | 2     | 14          | 98.9             | 1505                   | -                      | 3.209094       |                         |
| 5       | 2     | 14          | 55.6             | 1861                   | -                      | 4.065536       |                         |
| 6       | 2     | 14          | 84.6             | 1447                   | -                      | 4.952736       |                         |
| 7       | 3     | 14          | 97.1             | 1510                   | 1471                   | 5.490302       |                         |
| 8       | 2     | 14          | 50.7             | 1757                   | -                      | 6.60005        |                         |
| 9       | 1     | 14          | 81.8             | -                      | -                      | 7.495347       |                         |
| 10      | 1     | 14          | 97.9             | -                      | -                      | 7.731754       |                         |
| 11      | 1     | 14          | 69.8             | -                      | -                      | 8.968059       |                         |
| 12      | 2     | 14          | 82.6             | 1517                   | -                      | 9.737652       |                         |
| 13      | 3     | 14          | 66.2             | 1984                   | 1913                   | 9.788131       |                         |
| 14      | 2     | 14          | 74.1             | 1602                   | -                      | 10.501973      |                         |
| 15      | 3     | 14          | 74.9             | 1848                   | 1344                   | 11.735421      |                         |

## 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     | 17          | 75.4             | 1578                   | -                      | 0.576473       | 1                       |
| 1       | 3     | 17          | 60.5             | 1368                   | 1203                   | 1.785124       |                         |
| 2       | 1     | 17          | 83               | -                      | -                      | 2.565641       |                         |
| 3       | 1     | 17          | 97.3             | -                      | -                      | 3.486694       |                         |
| 4       | 2     | 17          | 95.1             | 1042                   | -                      | 4.545278       |                         |
| 5       | 2     | 17          | 95.3             | 1707                   | -                      | 5.108113       |                         |
| 6       | 2     | 17          | 89.5             | 1540                   | -                      | 6.521782       |                         |
| 7       | 1     | 17          | 82.8             | -                      | -                      | 7.963654       |                         |
| 8       | 1     | 17          | 52.4             | -                      | -                      | 8.117426       |                         |
| 9       | 3     | 17          | 80.4             | 1421                   | 1052                   | 9.10624        |                         |
| 10      | 2     | 17          | 50.8             | 1407                   | -                      | 10.096889      |                         |
| 11      | 2     | 17          | 99.4             | 1029                   | -                      | 11.976698      |                         |

## Bin5 Statistics 22

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 8           | 58.8             | 1458                   | -                      | 0.534182       | 1                       |
| 1       | 3     | 8           | 82.9             | 1612                   | 1126                   | 0.734026       |                         |
| 2       | 3     | 8           | 68               | 1365                   | 1283                   | 1.648944       |                         |
| 3       | 1     | 8           | 83.4             | -                      | -                      | 1.875924       |                         |
| 4       | 2     | 8           | 58.3             | 1382                   | -                      | 2.662963       |                         |
| 5       | 2     | 8           | 79.3             | 1287                   | -                      | 3.25373        |                         |
| 6       | 3     | 8           | 55.5             | 1250                   | 1703                   | 4.09367        |                         |
| 7       | 2     | 8           | 52.5             | 1145                   | -                      | 4.675989       |                         |
| 8       | 2     | 8           | 52.3             | 1150                   | -                      | 5.257818       |                         |
| 9       | 1     | 8           | 64.1             | -                      | -                      | 5.660158       |                         |
| 10      | 2     | 8           | 53.9             | 1983                   | -                      | 6.437646       |                         |
| 11      | 3     | 8           | 88.3             | 1172                   | 1712                   | 6.81728        |                         |
| 12      | 2     | 8           | 57.4             | 1453                   | -                      | 7.421824       |                         |
| 13      | 2     | 8           | 81.4             | 1499                   | -                      | 7.836637       |                         |
| 14      | 2     | 8           | 93.8             | 1219                   | -                      | 8.747444       |                         |
| 15      | 1     | 8           | 71.3             | -                      | -                      | 9.041838       |                         |
| 16      | 2     | 8           | 71.7             | 1463                   | -                      | 9.74799        |                         |
| 17      | 1     | 8           | 85.9             | -                      | -                      | 10.400834      |                         |
| 18      | 2     | 8           | 66               | 1422                   | -                      | 10.979916      |                         |
| 19      | 2     | 8           | 51               | 1474                   | -                      | 11.556863      |                         |

## 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     | 13          | 89.2             | -                      | -                      | 0.32427        | 1                       |
| 1       | 2     | 13          | 64.3             | 1684                   | -                      | 1.631566       |                         |
| 2       | 1     | 13          | 84.7             | -                      | -                      | 2.069497       |                         |
| 3       | 2     | 13          | 59.8             | 1246                   | -                      | 2.895476       |                         |
| 4       | 2     | 13          | 74.9             | 1846                   | -                      | 3.648858       |                         |
| 5       | 3     | 13          | 68.7             | 1585                   | 1451                   | 4.569751       |                         |
| 6       | 3     | 13          | 75.1             | 1566                   | 1992                   | 5.936205       |                         |
| 7       | 2     | 13          | 54.9             | 1860                   | -                      | 6.033653       |                         |
| 8       | 3     | 13          | 71.2             | 1682                   | 1787                   | 6.866169       |                         |
| 9       | 1     | 13          | 72.9             | -                      | -                      | 8.309551       |                         |
| 10      | 2     | 13          | 60.4             | 1717                   | -                      | 8.711196       |                         |
| 11      | 3     | 13          | 89.5             | 1017                   | 1570                   | 9.516838       |                         |
| 12      | 2     | 13          | 93.9             | 1375                   | -                      | 10.794889      |                         |
| 13      | 1     | 13          | 73.2             | -                      | -                      | 11.949213      |                         |

## Bin5 Statistics 24

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 15          | 83.3             | 1060                   | -                      | 0.119498       | 1                       |
| 1       | 1     | 15          | 77.4             | -                      | -                      | 1.194731       |                         |
| 2       | 2     | 15          | 98.5             | 1574                   | -                      | 1.634316       |                         |
| 3       | 1     | 15          | 61.9             | -                      | -                      | 2.589014       |                         |
| 4       | 1     | 15          | 99.2             | -                      | -                      | 2.88965        |                         |
| 5       | 1     | 15          | 98.9             | -                      | -                      | 3.939368       |                         |
| 6       | 3     | 15          | 55.4             | 1211                   | 1421                   | 4.057504       |                         |
| 7       | 1     | 15          | 54.5             | -                      | -                      | 5.277831       |                         |
| 8       | 2     | 15          | 67.2             | 1617                   | -                      | 5.537028       |                         |
| 9       | 2     | 15          | 51.7             | 1902                   | -                      | 6.144818       |                         |
| 10      | 2     | 15          | 50.8             | 1248                   | -                      | 6.967697       |                         |
| 11      | 2     | 15          | 96.9             | 1115                   | -                      | 7.753623       |                         |
| 12      | 1     | 15          | 84.3             | -                      | -                      | 8.661803       |                         |
| 13      | 2     | 15          | 80.3             | 1633                   | -                      | 9.216536       |                         |
| 14      | 2     | 15          | 75.4             | 1000                   | -                      | 9.382082       |                         |
| 15      | 3     | 15          | 76.5             | 1103                   | 1177                   | 10.122425      |                         |
| 16      | 3     | 15          | 50.5             | 1321                   | 1379                   | 10.731097      |                         |
| 17      | 2     | 15          | 67.3             | 1581                   | -                      | 11.536517      |                         |

## 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     | 12          | 94.9             | 1048                   | 1286                   | 0.03158        | 1                       |
| 1       | 2     | 12          | 67.1             | 1499                   | -                      | 1.122535       |                         |
| 2       | 1     | 12          | 66.3             | -                      | -                      | 2.206178       |                         |
| 3       | 3     | 12          | 80.6             | 1550                   | 1609                   | 3.163882       |                         |
| 4       | 3     | 12          | 73.2             | 1183                   | 1222                   | 4.200283       |                         |
| 5       | 2     | 12          | 62.9             | 1869                   | -                      | 4.999677       |                         |
| 6       | 2     | 12          | 52.1             | 1540                   | -                      | 5.845112       |                         |
| 7       | 2     | 12          | 85.1             | 1964                   | -                      | 6.718921       |                         |
| 8       | 2     | 12          | 85.8             | 1646                   | -                      | 7.526184       |                         |
| 9       | 2     | 12          | 53.8             | 1427                   | -                      | 8.387767       |                         |
| 10      | 2     | 12          | 76.7             | 1369                   | -                      | 9.898756       |                         |
| 11      | 3     | 12          | 60.9             | 1120                   | 1431                   | 10.822077      |                         |
| 12      | 3     | 12          | 87.7             | 1132                   | 1051                   | 11.649866      |                         |

## 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       | 3     | 5           | 65.2             | 1322                   | 1140                   | 0.646452       | 1                       |
| 1       | 3     | 5           | 75.7             | 1578                   | 1054                   | 0.988251       |                         |
| 2       | 2     | 5           | 72.1             | 1731                   | -                      | 1.870735       |                         |
| 3       | 1     | 5           | 67.6             | -                      | -                      | 2.651099       |                         |
| 4       | 3     | 5           | 93               | 1514                   | 1796                   | 2.934791       |                         |
| 5       | 2     | 5           | 78.1             | 1196                   | -                      | 3.7503         |                         |
| 6       | 2     | 5           | 52.8             | 1965                   | -                      | 4.406208       |                         |
| 7       | 1     | 5           | 83.6             | -                      | -                      | 4.952658       |                         |
| 8       | 2     | 5           | 96.1             | 1059                   | -                      | 5.354088       |                         |
| 9       | 3     | 5           | 93.1             | 1699                   | 1772                   | 6.397679       |                         |
| 10      | 2     | 5           | 80.9             | 1794                   | -                      | 6.937805       |                         |
| 11      | 2     | 5           | 96.8             | 1919                   | -                      | 7.502681       |                         |
| 12      | 3     | 5           | 76.7             | 1381                   | 1250                   | 8.177126       |                         |
| 13      | 2     | 5           | 79.3             | 1597                   | -                      | 9.067253       |                         |
| 14      | 2     | 5           | 88.7             | 1689                   | -                      | 9.924697       |                         |
| 15      | 3     | 5           | 72.3             | 1660                   | 1207                   | 10.174575      |                         |
| 16      | 3     | 5           | 76               | 1360                   | 1170                   | 11.076895      |                         |
| 17      | 1     | 5           | 96.8             | -                      | -                      | 11.763463      |                         |

## Bin5 Statistics 27

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 12          | 83.5             | 1748                   | 1100                   | 0.190761       | 1                       |
| 1       | 3     | 12          | 67               | 1596                   | 1341                   | 0.986533       |                         |
| 2       | 2     | 12          | 95.8             | 1531                   | -                      | 2.035185       |                         |
| 3       | 2     | 12          | 87.7             | 1472                   | -                      | 2.144232       |                         |
| 4       | 2     | 12          | 54               | 1845                   | -                      | 3.205929       |                         |
| 5       | 1     | 12          | 94.5             | -                      | -                      | 3.535315       |                         |
| 6       | 2     | 12          | 68.4             | 1101                   | -                      | 4.913216       |                         |
| 7       | 2     | 12          | 53.9             | 1016                   | -                      | 5.608319       |                         |
| 8       | 2     | 12          | 79               | 1340                   | -                      | 5.808587       |                         |
| 9       | 3     | 12          | 57.8             | 1686                   | 1625                   | 6.829582       |                         |
| 10      | 2     | 12          | 59.3             | 1339                   | -                      | 7.486501       |                         |
| 11      | 3     | 12          | 78.4             | 1529                   | 1537                   | 8.302597       |                         |
| 12      | 1     | 12          | 94.8             | -                      | -                      | 9.170429       |                         |
| 13      | 3     | 12          | 70.1             | 1956                   | 1302                   | 9.826336       |                         |
| 14      | 2     | 12          | 73.5             | 1291                   | -                      | 10.570064      |                         |
| 15      | 3     | 12          | 79.8             | 1108                   | 1087                   | 10.898567      |                         |
| 16      | 3     | 12          | 68.1             | 1634                   | 1553                   | 11.639845      |                         |

## Bin5 Statistics 28

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 8           | 94.5             | 1518                   | -                      | 0.854147       | 1                       |
| 1       | 2     | 8           | 51.4             | 1996                   | -                      | 1.228625       |                         |
| 2       | 2     | 8           | 96.5             | 1628                   | -                      | 3.196094       |                         |
| 3       | 2     | 8           | 75.8             | 1588                   | -                      | 4.348304       |                         |
| 4       | 2     | 8           | 94.8             | 1725                   | -                      | 5.4579         |                         |
| 5       | 3     | 8           | 53.9             | 1341                   | 1533                   | 6.881859       |                         |
| 6       | 2     | 8           | 79.8             | 1778                   | -                      | 8.309519       |                         |
| 7       | 1     | 8           | 87.3             | -                      | -                      | 8.547628       |                         |
| 8       | 2     | 8           | 93               | 1867                   | -                      | 9.905166       |                         |
| 9       | 1     | 8           | 97.8             | -                      | -                      | 11.022227      |                         |

## 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          | 80.1             | 1615                   | -                      | 0.384542       | 1                       |
| 1       | 3     | 19          | 65.2             | 1974                   | 1673                   | 1.619777       |                         |
| 2       | 1     | 19          | 87.1             | -                      | -                      | 2.438012       |                         |
| 3       | 3     | 19          | 55.5             | 1194                   | 1057                   | 2.619374       |                         |
| 4       | 1     | 19          | 50.4             | -                      | -                      | 3.628198       |                         |
| 5       | 2     | 19          | 82               | 1277                   | -                      | 4.325245       |                         |
| 6       | 2     | 19          | 73.5             | 1218                   | -                      | 5.59598        |                         |
| 7       | 2     | 19          | 91.3             | 1634                   | -                      | 6.15696        |                         |
| 8       | 2     | 19          | 55.5             | 1403                   | -                      | 7.605189       |                         |
| 9       | 1     | 19          | 66.3             | -                      | -                      | 8.549178       |                         |
| 10      | 1     | 19          | 50.5             | -                      | -                      | 8.797787       |                         |
| 11      | 2     | 19          | 80.7             | 1101                   | -                      | 9.681228       |                         |
| 12      | 3     | 19          | 97.7             | 1058                   | 1791                   | 10.811587      |                         |
| 13      | 1     | 19          | 94.2             | -                      | -                      | 11.704706      |                         |

## 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          | 69               | 1867                   | -                      | 0.093101       | 1                       |
| 1       | 2     | 17          | 53.9             | 1394                   | -                      | 1.281459       |                         |
| 2       | 3     | 17          | 99.8             | 1551                   | 1361                   | 1.902856       |                         |
| 3       | 3     | 17          | 76               | 1272                   | 1052                   | 3.367756       |                         |
| 4       | 1     | 17          | 83.4             | -                      | -                      | 4.034588       |                         |
| 5       | 2     | 17          | 99.4             | 1110                   | -                      | 4.645322       |                         |
| 6       | 3     | 17          | 66.5             | 1461                   | 1590                   | 5.791803       |                         |
| 7       | 2     | 17          | 75.7             | 1423                   | -                      | 6.201854       |                         |
| 8       | 2     | 17          | 59               | 1256                   | -                      | 7.387366       |                         |
| 9       | 1     | 17          | 85.1             | -                      | -                      | 8.287494       |                         |
| 10      | 2     | 17          | 90.9             | 1854                   | -                      | 8.934748       |                         |
| 11      | 2     | 17          | 59.2             | 1885                   | -                      | 9.574679       |                         |
| 12      | 2     | 17          | 54.5             | 1330                   | -                      | 10.418299      |                         |
| 13      | 1     | 17          | 89.6             | -                      | -                      | 11.883747      |                         |

**Table-6 Radar Type 6 Statistical Performance**

| <b>Trial #</b> | <b>Fc (MHz)</b> | <b>Pulse /Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> | <b>Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-----------------|---------------------|-------------------------|-----------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 5530            | 9                   | 1                       | 333             | 1                              | 5500.0, 5315.0, 5709.0, 5415.0, 5400.0, 5472.0, 5706.0, 5286.0, 5321.0, 5340.0, 5499.0, 5647.0, 5669.0, 5696.0, 5454.0, 5521.0, 5548.0, 5722.0, 5358.0, 5258.0, 5391.0, 5349.0, 5570.0, 5471.0, 5306.0, 5661.0, 5390.0, 5345.0, 5416.0, 5666.0, 5490.0, 5265.0, 5643.0, 5373.0, 5289.0, 5639.0, 5282.0, 5563.0, 5253.0, 5385.0, 5608.0, 5533.0, 5320.0, 5609.0, 5562.0, 5551.0, 5325.0, 5476.0, 5699.0, 5694.0, 5670.0, 5486.0, 5624.0, 5405.0, 5328.0, 5423.0, 5327.0, 5637.0, 5333.0, 5389.0, 5256.0, 5407.0, 5368.0, 5590.0, 5523.0, 5601.0, 5469.0, 5319.0, 5679.0, 5648.0, 5715.0, 5552.0, 5531.0, 5534.0, 5560.0, 5517.0, 5274.0, 5526.0, 5347.0, 5269.0, 5335.0, 5412.0, 5559.0, 5428.0, 5522.0, 5420.0, 5447.0, 5668.0, 5444.0, 5290.0, 5424.0, 5495.0, 5431.0, 5395.0, 5295.0, 5381.0, 5413.0, 5452.0, 5477.0, 5612.0<br>(number of hits: 18 ) |
| 2              | 5530            | 9                   | 1                       | 333             | 1                              | 5293.0, 5430.0, 5258.0, 5332.0, 5704.0, 5693.0, 5471.0, 5626.0, 5441.0, 5324.0, 5251.0, 5545.0, 5366.0, 5322.0, 5584.0, 5380.0, 5536.0, 5361.0, 5387.0, 5325.0, 5554.0, 5284.0, 5329.0, 5493.0, 5503.0, 5470.0, 5353.0, 5476.0, 5491.0, 5575.0, 5718.0, 5319.0, 5543.0, 5423.0, 5644.0, 5540.0, 5330.0, 5646.0, 5327.0, 5467.0, 5369.0, 5591.0, 5698.0, 5356.0, 5468.0, 5641.0, 5416.0, 5714.0, 5723.0, 5414.0, 5462.0, 5294.0, 5648.0, 5420.0, 5314.0, 5451.0, 5578.0, 5564.0, 5596.0, 5513.0, 5405.0, 5472.0, 5305.0, 5357.0, 5439.0, 5497.0, 5521.0, 5527.0, 5391.0, 5647.0, 5250.0, 5421.0, 5518.0, 5389.0, 5671.0, 5394.0, 5486.0, 5428.0, 5696.0, 5384.0, 5443.0, 5328.0, 5474.0, 5253.0, 5621.0, 5372.0, 5633.0, 5672.0, 5716.0, 5402.0, 5707.0, 5635.0, 5323.0, 5404.0, 5348.0, 5285.0, 5409.0, 5287.0, 5262.0, 5680.0<br>(number of hits: 13 ) |
| 3              | 5530            | 9                   | 1                       | 333             | 1                              | 5480.0, 5278.0, 5299.0, 5724.0, 5516.0, 5435.0, 5635.0, 5327.0, 5717.0, 5515.0, 5344.0, 5706.0, 5601.0, 5528.0, 5393.0, 5478.0, 5618.0, 5597.0, 5604.0, 5602.0, 5564.0, 5599.0, 5383.0, 5279.0, 5623.0, 5427.0, 5650.0, 5626.0, 5489.0, 5634.0, 5560.0, 5607.0, 5696.0, 5699.0, 5345.0, 5297.0, 5536.0, 5646.0, 5350.0, 5259.0, 5567.0, 5665.0, 5616.0, 5644.0, 5320.0, 5289.0, 5614.0, 5668.0, 5693.0, 5285.0, 5335.0, 5392.0, 5656.0, 5282.0, 5364.0, 5265.0, 5703.0, 5694.0, 5510.0, 5561.0,                                                                                                                                                                                                                                                                                                                                                         |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5655.0, 5575.0, 5683.0, 5533.0, 5569.0, 5441.0, 5580.0, 5570.0, 5557.0, 5690.0, 5677.0, 5643.0, 5286.0, 5642.0, 5534.0, 5439.0, 5573.0, 5375.0, 5559.0, 5467.0, 5398.0, 5632.0, 5431.0, 5521.0, 5545.0, 5538.0, 5305.0, 5302.0, 5563.0, 5676.0, 5390.0, 5443.0, 5312.0, 5701.0, 5708.0, 5654.0, 5713.0, 5296.0, 5497.0, 5663.0<br>(number of hits: 18 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4 | 5530 | 9 | 1 | 333 | 1 | 5536.0, 5721.0, 5637.0, 5264.0, 5486.0, 5474.0, 5555.0, 5395.0, 5632.0, 5627.0, 5400.0, 5717.0, 5601.0, 5704.0, 5263.0, 5254.0, 5419.0, 5407.0, 5267.0, 5319.0, 5323.0, 5504.0, 5428.0, 5387.0, 5528.0, 5540.0, 5525.0, 5434.0, 5667.0, 5558.0, 5476.0, 5309.0, 5266.0, 5292.0, 5590.0, 5719.0, 5513.0, 5605.0, 5284.0, 5322.0, 5381.0, 5503.0, 5561.0, 5695.0, 5467.0, 5358.0, 5634.0, 5592.0, 5701.0, 5652.0, 5625.0, 5392.0, 5572.0, 5607.0, 5435.0, 5382.0, 5406.0, 5338.0, 5483.0, 5534.0, 5660.0, 5568.0, 5640.0, 5390.0, 5631.0, 5418.0, 5686.0, 5477.0, 5454.0, 5351.0, 5262.0, 5646.0, 5655.0, 5460.0, 5423.0, 5612.0, 5380.0, 5582.0, 5669.0, 5571.0, 5635.0, 5509.0, 5596.0, 5527.0, 5693.0, 5373.0, 5481.0, 5348.0, 5604.0, 5543.0, 5482.0, 5546.0, 5287.0, 5705.0, 5307.0, 5298.0, 5608.0, 5597.0, 5327.0, 5442.0<br>(number of hits: 15 ) |
| 5 | 5530 | 9 | 1 | 333 | 1 | 5283.0, 5584.0, 5373.0, 5457.0, 5315.0, 5663.0, 5274.0, 5295.0, 5312.0, 5614.0, 5555.0, 5496.0, 5472.0, 5313.0, 5585.0, 5619.0, 5541.0, 5308.0, 5488.0, 5723.0, 5255.0, 5364.0, 5368.0, 5661.0, 5544.0, 5714.0, 5523.0, 5297.0, 5366.0, 5702.0, 5402.0, 5683.0, 5700.0, 5461.0, 5557.0, 5630.0, 5679.0, 5332.0, 5266.0, 5322.0, 5433.0, 5379.0, 5459.0, 5709.0, 5434.0, 5626.0, 5271.0, 5420.0, 5514.0, 5374.0, 5413.0, 5580.0, 5468.0, 5253.0, 5553.0, 5448.0, 5311.0, 5532.0, 5424.0, 5652.0, 5616.0, 5631.0, 5648.0, 5677.0, 5250.0, 5306.0, 5567.0, 5618.0, 5651.0, 5578.0, 5699.0, 5633.0, 5455.0, 5530.0, 5286.0, 5526.0, 5436.0, 5378.0, 5486.0, 5509.0, 5390.0, 5348.0, 5707.0, 5454.0, 5450.0, 5318.0, 5329.0, 5521.0, 5512.0, 5645.0, 5608.0, 5451.0, 5647.0, 5382.0, 5272.0, 5401.0, 5678.0, 5533.0, 5337.0, 5423.0<br>(number of hits: 16 ) |
| 6 | 5530 | 9 | 1 | 333 | 1 | 5262.0, 5519.0, 5719.0, 5647.0, 5684.0, 5634.0, 5692.0, 5587.0, 5483.0, 5475.0, 5467.0, 5576.0, 5307.0, 5349.0, 5686.0, 5347.0, 5297.0, 5340.0, 5292.0, 5696.0, 5515.0, 5471.0, 5485.0, 5383.0, 5312.0, 5531.0, 5294.0, 5257.0, 5565.0, 5439.0, 5594.0, 5301.0, 5659.0, 5523.0, 5274.0, 5689.0, 5504.0, 5680.0, 5424.0, 5552.0, 5419.0, 5406.0, 5704.0, 5525.0, 5715.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5632.0, 5585.0, 5414.0, 5618.0, 5446.0, 5517.0, 5682.0, 5644.0, 5298.0, 5486.0, 5299.0, 5627.0, 5373.0, 5685.0, 5703.0, 5599.0, 5474.0, 5547.0, 5304.0, 5614.0, 5630.0, 5554.0, 5279.0, 5498.0, 5710.0, 5277.0, 5641.0, 5260.0, 5434.0, 5315.0, 5611.0, 5339.0, 5540.0, 5648.0, 5355.0, 5653.0, 5302.0, 5548.0, 5427.0, 5522.0, 5603.0, 5579.0, 5572.0, 5707.0, 5549.0, 5362.0, 5453.0, 5448.0, 5722.0, 5265.0, 5506.0, 5665.0, 5403.0, 5282.0, 5333.0<br>(number of hits: 17 )                                                                                                                                                                                                                                                                                                                                                                         |
| 7 | 5530 | 9 | 1 | 333 | 1 | 5302.0, 5433.0, 5695.0, 5279.0, 5538.0, 5466.0, 5567.0, 5303.0, 5451.0, 5602.0, 5254.0, 5569.0, 5544.0, 5574.0, 5401.0, 5549.0, 5584.0, 5534.0, 5464.0, 5528.0, 5621.0, 5696.0, 5481.0, 5651.0, 5384.0, 5616.0, 5665.0, 5252.0, 5289.0, 5352.0, 5402.0, 5517.0, 5266.0, 5676.0, 5419.0, 5406.0, 5607.0, 5396.0, 5408.0, 5512.0, 5666.0, 5476.0, 5415.0, 5347.0, 5294.0, 5562.0, 5653.0, 5592.0, 5551.0, 5296.0, 5698.0, 5535.0, 5274.0, 5542.0, 5395.0, 5450.0, 5256.0, 5661.0, 5615.0, 5576.0, 5369.0, 5599.0, 5278.0, 5709.0, 5586.0, 5275.0, 5644.0, 5389.0, 5460.0, 5354.0, 5495.0, 5299.0, 5656.0, 5568.0, 5335.0, 5484.0, 5439.0, 5555.0, 5561.0, 5523.0, 5285.0, 5694.0, 5459.0, 5638.0, 5667.0, 5617.0, 5640.0, 5715.0, 5560.0, 5326.0, 5626.0, 5502.0, 5348.0, 5405.0, 5334.0, 5680.0, 5700.0, 5468.0, 5591.0, 5258.0<br>(number of hits: 18 ) |
| 8 | 5530 | 9 | 1 | 333 | 1 | 5465.0, 5412.0, 5593.0, 5470.0, 5355.0, 5275.0, 5656.0, 5288.0, 5688.0, 5570.0, 5705.0, 5566.0, 5691.0, 5413.0, 5456.0, 5397.0, 5434.0, 5605.0, 5576.0, 5663.0, 5603.0, 5418.0, 5377.0, 5369.0, 5654.0, 5350.0, 5661.0, 5703.0, 5464.0, 5334.0, 5310.0, 5442.0, 5720.0, 5604.0, 5426.0, 5621.0, 5607.0, 5254.0, 5452.0, 5330.0, 5632.0, 5437.0, 5504.0, 5650.0, 5292.0, 5571.0, 5421.0, 5378.0, 5510.0, 5436.0, 5348.0, 5677.0, 5544.0, 5698.0, 5432.0, 5323.0, 5273.0, 5255.0, 5390.0, 5389.0, 5624.0, 5664.0, 5372.0, 5325.0, 5620.0, 5302.0, 5450.0, 5549.0, 5416.0, 5505.0, 5524.0, 5522.0, 5681.0, 5496.0, 5262.0, 5318.0, 5651.0, 5653.0, 5414.0, 5344.0, 5379.0, 5695.0, 5519.0, 5272.0, 5564.0, 5556.0, 5516.0, 5386.0, 5404.0, 5473.0, 5476.0, 5365.0, 5671.0, 5583.0, 5590.0, 5329.0, 5634.0, 5467.0, 5550.0, 5592.0<br>(number of hits: 14 ) |
| 9 | 5530 | 9 | 1 | 333 | 1 | 5649.0, 5669.0, 5640.0, 5628.0, 5670.0, 5583.0, 5346.0, 5316.0, 5625.0, 5610.0, 5372.0, 5572.0, 5261.0, 5378.0, 5648.0, 5692.0, 5423.0, 5481.0, 5464.0, 5477.0, 5700.0, 5289.0, 5333.0, 5279.0, 5534.0, 5541.0, 5353.0, 5452.0, 5310.0, 5722.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5406.0, 5391.0, 5569.0, 5632.0, 5537.0, 5715.0, 5313.0, 5256.0, 5619.0, 5691.0, 5507.0, 5294.0, 5576.0, 5403.0, 5662.0, 5337.0, 5319.0, 5429.0, 5609.0, 5693.0, 5427.0, 5367.0, 5547.0, 5515.0, 5498.0, 5295.0, 5574.0, 5304.0, 5354.0, 5714.0, 5257.0, 5309.0, 5358.0, 5331.0, 5434.0, 5566.0, 5685.0, 5580.0, 5651.0, 5620.0, 5665.0, 5416.0, 5396.0, 5650.0, 5392.0, 5548.0, 5502.0, 5633.0, 5624.0, 5306.0, 5704.0, 5454.0, 5489.0, 5381.0, 5350.0, 5528.0, 5676.0, 5490.0, 5364.0, 5686.0, 5475.0, 5459.0, 5636.0, 5544.0, 5554.0, 5307.0, 5710.0, 5513.0, 5380.0, 5400.0<br>(number of hits: 14 )                                                                                                                                                                                                                                                 |
| 10 | 5530 | 9 | 1 | 333 | 1 | 5448.0, 5541.0, 5654.0, 5576.0, 5583.0, 5331.0, 5712.0, 5302.0, 5411.0, 5434.0, 5347.0, 5627.0, 5424.0, 5461.0, 5619.0, 5629.0, 5573.0, 5711.0, 5365.0, 5618.0, 5464.0, 5395.0, 5528.0, 5636.0, 5644.0, 5703.0, 5701.0, 5584.0, 5269.0, 5275.0, 5713.0, 5351.0, 5510.0, 5468.0, 5462.0, 5507.0, 5683.0, 5310.0, 5549.0, 5572.0, 5652.0, 5256.0, 5508.0, 5704.0, 5506.0, 5575.0, 5553.0, 5429.0, 5702.0, 5542.0, 5494.0, 5524.0, 5550.0, 5386.0, 5567.0, 5412.0, 5639.0, 5517.0, 5414.0, 5560.0, 5621.0, 5309.0, 5252.0, 5482.0, 5655.0, 5453.0, 5657.0, 5276.0, 5416.0, 5481.0, 5653.0, 5670.0, 5368.0, 5440.0, 5596.0, 5472.0, 5257.0, 5283.0, 5356.0, 5277.0, 5478.0, 5413.0, 5559.0, 5672.0, 5421.0, 5492.0, 5442.0, 5438.0, 5376.0, 5686.0, 5718.0, 5432.0, 5699.0, 5722.0, 5300.0, 5287.0, 5533.0, 5558.0, 5540.0, 5332.0<br>(number of hits: 20 ) |
| 11 | 5530 | 9 | 1 | 333 | 1 | 5263.0, 5355.0, 5540.0, 5496.0, 5629.0, 5293.0, 5621.0, 5697.0, 5463.0, 5401.0, 5483.0, 5670.0, 5444.0, 5635.0, 5265.0, 5679.0, 5566.0, 5591.0, 5375.0, 5329.0, 5637.0, 5404.0, 5525.0, 5505.0, 5281.0, 5608.0, 5316.0, 5657.0, 5650.0, 5335.0, 5325.0, 5452.0, 5464.0, 5440.0, 5616.0, 5489.0, 5558.0, 5398.0, 5590.0, 5716.0, 5519.0, 5646.0, 5711.0, 5254.0, 5328.0, 5526.0, 5515.0, 5349.0, 5511.0, 5586.0, 5346.0, 5671.0, 5592.0, 5397.0, 5596.0, 5664.0, 5527.0, 5486.0, 5544.0, 5495.0, 5676.0, 5409.0, 5602.0, 5688.0, 5683.0, 5523.0, 5680.0, 5684.0, 5512.0, 5498.0, 5411.0, 5571.0, 5466.0, 5396.0, 5412.0, 5337.0, 5541.0, 5450.0, 5445.0, 5340.0, 5426.0, 5517.0, 5384.0, 5665.0, 5358.0, 5392.0, 5598.0, 5374.0, 5503.0, 5554.0, 5477.0, 5307.0, 5333.0, 5443.0, 5259.0, 5272.0, 5694.0, 5383.0, 5438.0, 5666.0<br>(number of hits: 20 ) |
| 12 | 5530 | 9 | 1 | 333 | 1 | 5406.0, 5356.0, 5532.0, 5681.0, 5624.0, 5361.0, 5641.0, 5704.0, 5375.0, 5323.0, 5467.0, 5575.0, 5717.0, 5321.0, 5695.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5602.0, 5477.0, 5574.0, 5629.0, 5293.0, 5553.0, 5627.0, 5300.0, 5538.0, 5268.0, 5296.0, 5270.0, 5663.0, 5278.0, 5410.0, 5546.0, 5570.0, 5698.0, 5265.0, 5547.0, 5604.0, 5342.0, 5306.0, 5476.0, 5646.0, 5685.0, 5373.0, 5291.0, 5364.0, 5510.0, 5653.0, 5582.0, 5420.0, 5680.0, 5387.0, 5503.0, 5522.0, 5684.0, 5583.0, 5521.0, 5456.0, 5336.0, 5600.0, 5330.0, 5709.0, 5673.0, 5389.0, 5613.0, 5316.0, 5257.0, 5478.0, 5578.0, 5481.0, 5559.0, 5565.0, 5668.0, 5453.0, 5699.0, 5397.0, 5413.0, 5462.0, 5514.0, 5614.0, 5339.0, 5603.0, 5412.0, 5272.0, 5310.0, 5702.0, 5512.0, 5666.0, 5526.0, 5563.0, 5482.0, 5630.0, 5376.0, 5362.0, 5700.0, 5276.0, 5299.0, 5443.0, 5618.0, 5340.0, 5431.0, 5561.0<br>(number of hits: 16 )                                                                                                                         |
| 13 | 5530 | 9 | 1 | 333 | 1 | 5584.0, 5357.0, 5385.0, 5413.0, 5271.0, 5359.0, 5423.0, 5326.0, 5474.0, 5677.0, 5586.0, 5528.0, 5488.0, 5636.0, 5404.0, 5303.0, 5292.0, 5694.0, 5350.0, 5695.0, 5709.0, 5631.0, 5711.0, 5530.0, 5427.0, 5588.0, 5698.0, 5491.0, 5252.0, 5510.0, 5640.0, 5339.0, 5305.0, 5297.0, 5502.0, 5382.0, 5433.0, 5667.0, 5658.0, 5376.0, 5716.0, 5573.0, 5628.0, 5572.0, 5403.0, 5505.0, 5661.0, 5555.0, 5724.0, 5256.0, 5428.0, 5506.0, 5406.0, 5681.0, 5562.0, 5422.0, 5254.0, 5354.0, 5544.0, 5321.0, 5338.0, 5546.0, 5512.0, 5673.0, 5696.0, 5473.0, 5638.0, 5420.0, 5379.0, 5623.0, 5285.0, 5324.0, 5580.0, 5602.0, 5448.0, 5568.0, 5327.0, 5517.0, 5469.0, 5600.0, 5284.0, 5645.0, 5547.0, 5314.0, 5706.0, 5261.0, 5664.0, 5504.0, 5702.0, 5644.0, 5608.0, 5471.0, 5272.0, 5436.0, 5329.0, 5582.0, 5515.0, 5307.0, 5439.0, 5356.0<br>(number of hits: 15 ) |
| 14 | 5530 | 9 | 1 | 333 | 1 | 5551.0, 5684.0, 5398.0, 5588.0, 5322.0, 5683.0, 5661.0, 5448.0, 5384.0, 5314.0, 5511.0, 5552.0, 5719.0, 5432.0, 5596.0, 5337.0, 5578.0, 5415.0, 5397.0, 5720.0, 5402.0, 5378.0, 5558.0, 5589.0, 5546.0, 5283.0, 5440.0, 5436.0, 5716.0, 5383.0, 5338.0, 5406.0, 5643.0, 5516.0, 5575.0, 5361.0, 5503.0, 5466.0, 5549.0, 5696.0, 5527.0, 5690.0, 5476.0, 5629.0, 5711.0, 5336.0, 5287.0, 5360.0, 5525.0, 5673.0, 5583.0, 5513.0, 5335.0, 5285.0, 5507.0, 5679.0, 5282.0, 5370.0, 5328.0, 5490.0, 5645.0, 5478.0, 5501.0, 5554.0, 5404.0, 5452.0, 5630.0, 5626.0, 5329.0, 5707.0, 5417.0, 5386.0, 5562.0, 5409.0, 5631.0, 5334.0, 5442.0, 5534.0, 5355.0, 5420.0, 5438.0, 5580.0, 5352.0, 5293.0, 5584.0, 5332.0, 5721.0, 5463.0, 5362.0, 5675.0, 5426.0, 5327.0, 5344.0, 5494.0, 5508.0, 5303.0, 5646.0, 5650.0, 5464.0, 5539.0<br>(number of hits: 19 ) |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | 5530 | 9 | 1 | 333 | 1 | 5654.0, 5500.0, 5295.0, 5406.0, 5349.0, 5448.0, 5254.0, 5563.0, 5676.0, 5651.0, 5418.0, 5551.0, 5462.0, 5478.0, 5315.0, 5484.0, 5375.0, 5440.0, 5345.0, 5604.0, 5411.0, 5324.0, 5515.0, 5505.0, 5283.0, 5680.0, 5555.0, 5708.0, 5570.0, 5251.0, 5507.0, 5323.0, 5565.0, 5287.0, 5491.0, 5401.0, 5472.0, 5458.0, 5400.0, 5408.0, 5675.0, 5328.0, 5668.0, 5416.0, 5431.0, 5619.0, 5716.0, 5611.0, 5720.0, 5366.0, 5302.0, 5442.0, 5301.0, 5667.0, 5681.0, 5483.0, 5544.0, 5641.0, 5509.0, 5549.0, 5290.0, 5692.0, 5361.0, 5256.0, 5524.0, 5348.0, 5351.0, 5593.0, 5370.0, 5381.0, 5337.0, 5539.0, 5446.0, 5618.0, 5443.0, 5380.0, 5513.0, 5598.0, 5553.0, 5278.0, 5703.0, 5661.0, 5372.0, 5573.0, 5567.0, 5723.0, 5695.0, 5334.0, 5481.0, 5363.0, 5350.0, 5552.0, 5286.0, 5335.0, 5426.0, 5368.0, 5285.0, 5341.0, 5663.0, 5568.0<br>(number of hits: 17) |
| 16 | 5530 | 9 | 1 | 333 | 1 | 5411.0, 5320.0, 5582.0, 5518.0, 5553.0, 5712.0, 5721.0, 5319.0, 5368.0, 5704.0, 5306.0, 5681.0, 5662.0, 5718.0, 5697.0, 5690.0, 5431.0, 5446.0, 5347.0, 5619.0, 5566.0, 5408.0, 5650.0, 5508.0, 5623.0, 5488.0, 5428.0, 5290.0, 5458.0, 5274.0, 5457.0, 5577.0, 5474.0, 5706.0, 5490.0, 5259.0, 5683.0, 5649.0, 5653.0, 5401.0, 5251.0, 5592.0, 5665.0, 5609.0, 5643.0, 5628.0, 5686.0, 5365.0, 5504.0, 5448.0, 5573.0, 5281.0, 5503.0, 5441.0, 5719.0, 5439.0, 5625.0, 5468.0, 5422.0, 5302.0, 5556.0, 5318.0, 5336.0, 5350.0, 5424.0, 5475.0, 5668.0, 5624.0, 5502.0, 5568.0, 5547.0, 5402.0, 5429.0, 5471.0, 5634.0, 5527.0, 5541.0, 5540.0, 5699.0, 5299.0, 5275.0, 5463.0, 5530.0, 5377.0, 5304.0, 5393.0, 5678.0, 5579.0, 5545.0, 5620.0, 5298.0, 5491.0, 5265.0, 5528.0, 5338.0, 5398.0, 5425.0, 5521.0, 5654.0, 5562.0<br>(number of hits: 17) |
| 17 | 5530 | 9 | 1 | 333 | 1 | 5254.0, 5658.0, 5348.0, 5363.0, 5684.0, 5334.0, 5310.0, 5498.0, 5429.0, 5710.0, 5357.0, 5513.0, 5551.0, 5388.0, 5293.0, 5688.0, 5435.0, 5346.0, 5266.0, 5678.0, 5494.0, 5722.0, 5608.0, 5368.0, 5537.0, 5402.0, 5376.0, 5626.0, 5679.0, 5657.0, 5426.0, 5440.0, 5682.0, 5323.0, 5636.0, 5524.0, 5391.0, 5515.0, 5291.0, 5674.0, 5612.0, 5508.0, 5294.0, 5369.0, 5597.0, 5681.0, 5589.0, 5566.0, 5478.0, 5279.0, 5298.0, 5531.0, 5321.0, 5364.0, 5439.0, 5286.0, 5547.0, 5503.0, 5595.0, 5482.0, 5638.0, 5382.0, 5417.0, 5420.0, 5301.0, 5650.0, 5642.0, 5487.0, 5274.0, 5495.0, 5295.0, 5428.0, 5633.0, 5471.0, 5693.0, 5643.0, 5523.0, 5603.0, 5273.0, 5538.0, 5466.0, 5526.0, 5609.0, 5532.0, 5303.0, 5645.0, 5427.0, 5663.0, 5374.0, 5555.0,                                                                                                        |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5553.0, 5470.0, 5606.0, 5353.0, 5520.0, 5270.0, 5390.0, 5572.0, 5694.0, 5656.0<br>(number of hits: 20 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 18 | 5530 | 9 | 1 | 333 | 1 | 5634.0, 5395.0, 5254.0, 5360.0, 5637.0, 5322.0, 5416.0, 5423.0, 5276.0, 5612.0, 5449.0, 5451.0, 5344.0, 5666.0, 5324.0, 5638.0, 5699.0, 5261.0, 5626.0, 5367.0, 5576.0, 5446.0, 5413.0, 5252.0, 5352.0, 5488.0, 5679.0, 5599.0, 5636.0, 5281.0, 5702.0, 5425.0, 5301.0, 5622.0, 5722.0, 5335.0, 5337.0, 5354.0, 5326.0, 5330.0, 5383.0, 5445.0, 5368.0, 5689.0, 5262.0, 5405.0, 5517.0, 5500.0, 5468.0, 5378.0, 5635.0, 5512.0, 5543.0, 5463.0, 5499.0, 5660.0, 5673.0, 5284.0, 5436.0, 5564.0, 5536.0, 5567.0, 5473.0, 5684.0, 5408.0, 5604.0, 5394.0, 5712.0, 5374.0, 5495.0, 5518.0, 5649.0, 5464.0, 5503.0, 5580.0, 5707.0, 5476.0, 5329.0, 5585.0, 5285.0, 5640.0, 5514.0, 5624.0, 5526.0, 5462.0, 5300.0, 5312.0, 5601.0, 5290.0, 5441.0, 5435.0, 5723.0, 5347.0, 5501.0, 5581.0, 5642.0, 5578.0, 5671.0, 5672.0, 5698.0<br>(number of hits: 14 ) |
| 19 | 5530 | 9 | 1 | 333 | 1 | 5598.0, 5563.0, 5584.0, 5528.0, 5508.0, 5608.0, 5296.0, 5408.0, 5626.0, 5533.0, 5446.0, 5361.0, 5375.0, 5564.0, 5274.0, 5674.0, 5681.0, 5525.0, 5427.0, 5706.0, 5658.0, 5406.0, 5456.0, 5260.0, 5267.0, 5574.0, 5579.0, 5677.0, 5310.0, 5641.0, 5394.0, 5721.0, 5569.0, 5716.0, 5585.0, 5379.0, 5443.0, 5590.0, 5506.0, 5633.0, 5509.0, 5530.0, 5655.0, 5696.0, 5342.0, 5593.0, 5288.0, 5474.0, 5411.0, 5628.0, 5264.0, 5291.0, 5381.0, 5545.0, 5514.0, 5271.0, 5511.0, 5453.0, 5624.0, 5670.0, 5479.0, 5678.0, 5495.0, 5363.0, 5360.0, 5675.0, 5319.0, 5450.0, 5270.0, 5642.0, 5499.0, 5470.0, 5341.0, 5322.0, 5473.0, 5352.0, 5518.0, 5570.0, 5282.0, 5489.0, 5549.0, 5431.0, 5368.0, 5687.0, 5709.0, 5455.0, 5632.0, 5335.0, 5640.0, 5340.0, 5303.0, 5399.0, 5494.0, 5281.0, 5595.0, 5560.0, 5689.0, 5312.0, 5692.0, 5355.0<br>(number of hits: 18 ) |
| 20 | 5530 | 9 | 1 | 333 | 1 | 5458.0, 5351.0, 5337.0, 5636.0, 5649.0, 5441.0, 5549.0, 5464.0, 5604.0, 5340.0, 5610.0, 5466.0, 5678.0, 5562.0, 5366.0, 5569.0, 5494.0, 5672.0, 5346.0, 5583.0, 5721.0, 5684.0, 5606.0, 5676.0, 5669.0, 5544.0, 5664.0, 5407.0, 5283.0, 5717.0, 5551.0, 5490.0, 5363.0, 5595.0, 5619.0, 5552.0, 5616.0, 5579.0, 5620.0, 5353.0, 5285.0, 5533.0, 5663.0, 5456.0, 5581.0, 5568.0, 5516.0, 5474.0, 5671.0, 5529.0, 5294.0, 5626.0, 5354.0, 5454.0, 5320.0, 5628.0, 5702.0, 5324.0, 5297.0, 5251.0, 5654.0, 5402.0, 5592.0, 5317.0, 5260.0, 5393.0, 5492.0, 5404.0, 5432.0, 5299.0, 5418.0, 5640.0, 5710.0, 5695.0, 5548.0,                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5272.0, 5411.0, 5561.0, 5423.0, 5652.0, 5519.0, 5499.0, 5713.0, 5700.0, 5479.0, 5645.0, 5680.0, 5580.0, 5692.0, 5468.0, 5543.0, 5286.0, 5646.0, 5463.0, 5605.0, 5524.0, 5269.0, 5643.0, 5613.0, 5632.0<br>(number of hits: 16 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 21 | 5530 | 9 | 1 | 333 | 1 | 5544.0, 5454.0, 5561.0, 5585.0, 5549.0, 5478.0, 5682.0, 5413.0, 5722.0, 5649.0, 5384.0, 5527.0, 5625.0, 5417.0, 5635.0, 5584.0, 5557.0, 5348.0, 5514.0, 5345.0, 5483.0, 5324.0, 5319.0, 5331.0, 5336.0, 5670.0, 5255.0, 5662.0, 5568.0, 5378.0, 5703.0, 5274.0, 5269.0, 5591.0, 5578.0, 5596.0, 5666.0, 5660.0, 5303.0, 5286.0, 5702.0, 5363.0, 5700.0, 5569.0, 5440.0, 5528.0, 5449.0, 5503.0, 5631.0, 5368.0, 5521.0, 5256.0, 5342.0, 5464.0, 5371.0, 5574.0, 5507.0, 5264.0, 5403.0, 5258.0, 5644.0, 5607.0, 5572.0, 5652.0, 5599.0, 5721.0, 5509.0, 5490.0, 5481.0, 5663.0, 5563.0, 5655.0, 5380.0, 5453.0, 5385.0, 5720.0, 5709.0, 5445.0, 5349.0, 5257.0, 5389.0, 5679.0, 5397.0, 5333.0, 5508.0, 5352.0, 5287.0, 5347.0, 5365.0, 5406.0, 5282.0, 5573.0, 5344.0, 5603.0, 5463.0, 5713.0, 5302.0, 5289.0, 5455.0, 5516.0<br>(number of hits: 14 ) |
| 22 | 5530 | 9 | 1 | 333 | 1 | 5578.0, 5401.0, 5563.0, 5263.0, 5542.0, 5418.0, 5602.0, 5721.0, 5598.0, 5390.0, 5712.0, 5509.0, 5484.0, 5572.0, 5445.0, 5591.0, 5590.0, 5531.0, 5671.0, 5438.0, 5699.0, 5374.0, 5265.0, 5690.0, 5615.0, 5498.0, 5722.0, 5511.0, 5395.0, 5519.0, 5526.0, 5533.0, 5573.0, 5708.0, 5640.0, 5562.0, 5315.0, 5630.0, 5472.0, 5343.0, 5538.0, 5391.0, 5352.0, 5512.0, 5692.0, 5610.0, 5582.0, 5480.0, 5446.0, 5413.0, 5614.0, 5481.0, 5583.0, 5406.0, 5336.0, 5648.0, 5460.0, 5450.0, 5471.0, 5570.0, 5307.0, 5673.0, 5364.0, 5643.0, 5261.0, 5508.0, 5257.0, 5523.0, 5377.0, 5701.0, 5290.0, 5530.0, 5593.0, 5442.0, 5299.0, 5332.0, 5478.0, 5495.0, 5375.0, 5633.0, 5361.0, 5579.0, 5339.0, 5272.0, 5691.0, 5520.0, 5638.0, 5447.0, 5654.0, 5254.0, 5362.0, 5575.0, 5326.0, 5357.0, 5661.0, 5555.0, 5294.0, 5454.0, 5516.0, 5636.0<br>(number of hits: 19 ) |
| 23 | 5530 | 9 | 1 | 333 | 1 | 5674.0, 5631.0, 5408.0, 5416.0, 5252.0, 5352.0, 5449.0, 5634.0, 5600.0, 5562.0, 5451.0, 5669.0, 5326.0, 5675.0, 5477.0, 5536.0, 5484.0, 5382.0, 5333.0, 5349.0, 5360.0, 5506.0, 5505.0, 5492.0, 5340.0, 5411.0, 5691.0, 5696.0, 5666.0, 5254.0, 5387.0, 5291.0, 5441.0, 5603.0, 5300.0, 5502.0, 5267.0, 5649.0, 5282.0, 5253.0, 5544.0, 5442.0, 5275.0, 5250.0, 5421.0, 5354.0, 5306.0, 5537.0, 5698.0, 5482.0, 5520.0, 5578.0, 5283.0, 5454.0, 5504.0, 5533.0, 5609.0, 5587.0, 5338.0, 5599.0,                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5257.0, 5375.0, 5540.0, 5284.0, 5525.0, 5660.0, 5414.0, 5394.0, 5405.0, 5445.0, 5511.0, 5700.0, 5407.0, 5615.0, 5428.0, 5690.0, 5317.0, 5437.0, 5517.0, 5673.0, 5521.0, 5638.0, 5679.0, 5633.0, 5424.0, 5258.0, 5312.0, 5305.0, 5373.0, 5547.0, 5629.0, 5422.0, 5450.0, 5400.0, 5353.0, 5672.0, 5656.0, 5342.0, 5678.0, 5256.0<br>(number of hits: 17)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 24 | 5530 | 9 | 1 | 333 | 1 | 5697.0, 5660.0, 5530.0, 5546.0, 5472.0, 5607.0, 5332.0, 5523.0, 5417.0, 5305.0, 5705.0, 5467.0, 5666.0, 5699.0, 5404.0, 5297.0, 5668.0, 5369.0, 5665.0, 5613.0, 5376.0, 5704.0, 5671.0, 5399.0, 5629.0, 5680.0, 5318.0, 5262.0, 5586.0, 5276.0, 5303.0, 5534.0, 5334.0, 5583.0, 5657.0, 5565.0, 5564.0, 5619.0, 5691.0, 5323.0, 5635.0, 5312.0, 5475.0, 5263.0, 5616.0, 5543.0, 5649.0, 5670.0, 5712.0, 5371.0, 5554.0, 5453.0, 5280.0, 5496.0, 5320.0, 5611.0, 5514.0, 5261.0, 5308.0, 5683.0, 5341.0, 5492.0, 5338.0, 5442.0, 5398.0, 5517.0, 5444.0, 5285.0, 5264.0, 5695.0, 5409.0, 5277.0, 5485.0, 5256.0, 5330.0, 5296.0, 5290.0, 5346.0, 5465.0, 5667.0, 5558.0, 5528.0, 5273.0, 5448.0, 5425.0, 5595.0, 5339.0, 5687.0, 5474.0, 5645.0, 5446.0, 5382.0, 5722.0, 5326.0, 5321.0, 5294.0, 5333.0, 5310.0, 5690.0, 5267.0<br>(number of hits: 14) |
| 25 | 5530 | 9 | 1 | 333 | 1 | 5288.0, 5447.0, 5618.0, 5279.0, 5456.0, 5667.0, 5330.0, 5442.0, 5381.0, 5454.0, 5655.0, 5662.0, 5436.0, 5424.0, 5643.0, 5293.0, 5331.0, 5610.0, 5357.0, 5486.0, 5587.0, 5526.0, 5719.0, 5458.0, 5477.0, 5336.0, 5432.0, 5290.0, 5449.0, 5282.0, 5557.0, 5343.0, 5328.0, 5434.0, 5285.0, 5525.0, 5387.0, 5450.0, 5688.0, 5716.0, 5414.0, 5292.0, 5588.0, 5261.0, 5575.0, 5431.0, 5490.0, 5351.0, 5669.0, 5524.0, 5506.0, 5692.0, 5620.0, 5406.0, 5457.0, 5311.0, 5270.0, 5558.0, 5713.0, 5585.0, 5407.0, 5676.0, 5268.0, 5479.0, 5622.0, 5678.0, 5694.0, 5415.0, 5536.0, 5296.0, 5539.0, 5333.0, 5705.0, 5481.0, 5356.0, 5421.0, 5544.0, 5510.0, 5626.0, 5638.0, 5391.0, 5375.0, 5612.0, 5659.0, 5552.0, 5254.0, 5543.0, 5398.0, 5505.0, 5548.0, 5635.0, 5258.0, 5400.0, 5695.0, 5599.0, 5271.0, 5500.0, 5440.0, 5341.0, 5609.0<br>(number of hits: 15) |
| 26 | 5530 | 9 | 1 | 333 | 1 | 5346.0, 5448.0, 5366.0, 5252.0, 5708.0, 5431.0, 5631.0, 5690.0, 5458.0, 5591.0, 5525.0, 5319.0, 5638.0, 5364.0, 5514.0, 5619.0, 5324.0, 5256.0, 5645.0, 5474.0, 5610.0, 5302.0, 5344.0, 5402.0, 5483.0, 5406.0, 5443.0, 5516.0, 5365.0, 5698.0, 5607.0, 5615.0, 5262.0, 5283.0, 5294.0, 5569.0, 5478.0, 5583.0, 5338.0, 5363.0, 5618.0, 5554.0, 5705.0, 5389.0, 5520.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5411.0, 5672.0, 5423.0, 5561.0, 5384.0, 5330.0, 5560.0, 5312.0, 5469.0, 5386.0, 5718.0, 5526.0, 5369.0, 5310.0, 5272.0, 5576.0, 5354.0, 5532.0, 5565.0, 5688.0, 5656.0, 5501.0, 5491.0, 5626.0, 5646.0, 5435.0, 5362.0, 5568.0, 5697.0, 5370.0, 5702.0, 5719.0, 5462.0, 5424.0, 5541.0, 5420.0, 5447.0, 5442.0, 5356.0, 5460.0, 5418.0, 5410.0, 5456.0, 5667.0, 5692.0, 5412.0, 5696.0, 5624.0, 5699.0, 5567.0, 5428.0, 5612.0, 5720.0, 5528.0, 5426.0<br>(number of hits: 14 )                                                                                                                                                                                                                                                                                                                                                                         |
| 27 | 5530 | 9 | 1 | 333 | 1 | 5304.0, 5719.0, 5365.0, 5672.0, 5347.0, 5276.0, 5352.0, 5300.0, 5442.0, 5486.0, 5488.0, 5353.0, 5448.0, 5356.0, 5657.0, 5694.0, 5453.0, 5529.0, 5523.0, 5392.0, 5598.0, 5490.0, 5594.0, 5451.0, 5570.0, 5285.0, 5476.0, 5711.0, 5554.0, 5576.0, 5449.0, 5354.0, 5689.0, 5489.0, 5272.0, 5663.0, 5651.0, 5456.0, 5546.0, 5266.0, 5447.0, 5287.0, 5278.0, 5268.0, 5637.0, 5544.0, 5407.0, 5613.0, 5603.0, 5299.0, 5472.0, 5380.0, 5654.0, 5263.0, 5357.0, 5569.0, 5621.0, 5290.0, 5467.0, 5600.0, 5525.0, 5574.0, 5612.0, 5293.0, 5618.0, 5374.0, 5721.0, 5270.0, 5617.0, 5450.0, 5720.0, 5296.0, 5283.0, 5382.0, 5335.0, 5588.0, 5434.0, 5660.0, 5596.0, 5515.0, 5326.0, 5477.0, 5254.0, 5473.0, 5584.0, 5496.0, 5350.0, 5665.0, 5363.0, 5468.0, 5653.0, 5580.0, 5558.0, 5673.0, 5379.0, 5426.0, 5328.0, 5533.0, 5520.0, 5261.0<br>(number of hits: 11 ) |
| 28 | 5530 | 9 | 1 | 333 | 1 | 5611.0, 5307.0, 5514.0, 5408.0, 5368.0, 5709.0, 5375.0, 5705.0, 5259.0, 5676.0, 5462.0, 5558.0, 5652.0, 5596.0, 5309.0, 5407.0, 5595.0, 5369.0, 5522.0, 5273.0, 5341.0, 5640.0, 5552.0, 5692.0, 5393.0, 5645.0, 5252.0, 5525.0, 5418.0, 5359.0, 5303.0, 5616.0, 5673.0, 5638.0, 5320.0, 5587.0, 5456.0, 5597.0, 5646.0, 5707.0, 5682.0, 5340.0, 5485.0, 5477.0, 5649.0, 5425.0, 5269.0, 5430.0, 5534.0, 5585.0, 5717.0, 5420.0, 5626.0, 5458.0, 5633.0, 5535.0, 5344.0, 5404.0, 5349.0, 5478.0, 5475.0, 5396.0, 5297.0, 5283.0, 5348.0, 5251.0, 5305.0, 5416.0, 5489.0, 5438.0, 5517.0, 5684.0, 5601.0, 5271.0, 5325.0, 5512.0, 5411.0, 5536.0, 5521.0, 5651.0, 5553.0, 5391.0, 5457.0, 5382.0, 5607.0, 5326.0, 5502.0, 5529.0, 5644.0, 5276.0, 5421.0, 5488.0, 5497.0, 5608.0, 5575.0, 5367.0, 5508.0, 5561.0, 5308.0, 5494.0<br>(number of hits: 18 ) |
| 29 | 5530 | 9 | 1 | 333 | 1 | 5702.0, 5682.0, 5669.0, 5382.0, 5594.0, 5638.0, 5600.0, 5406.0, 5464.0, 5514.0, 5642.0, 5392.0, 5484.0, 5432.0, 5408.0, 5383.0, 5614.0, 5688.0, 5671.0, 5420.0, 5288.0, 5563.0, 5376.0, 5255.0, 5433.0, 5281.0, 5470.0, 5377.0, 5699.0, 5708.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5401.0, 5275.0, 5524.0, 5518.0, 5636.0, 5256.0, 5533.0, 5715.0, 5664.0, 5403.0, 5306.0, 5700.0, 5486.0, 5497.0, 5686.0, 5263.0, 5599.0, 5652.0, 5446.0, 5693.0, 5301.0, 5510.0, 5250.0, 5253.0, 5273.0, 5271.0, 5696.0, 5611.0, 5418.0, 5694.0, 5467.0, 5580.0, 5454.0, 5297.0, 5359.0, 5476.0, 5478.0, 5431.0, 5503.0, 5371.0, 5606.0, 5632.0, 5561.0, 5509.0, 5595.0, 5560.0, 5330.0, 5648.0, 5303.0, 5373.0, 5647.0, 5622.0, 5697.0, 5390.0, 5314.0, 5535.0, 5322.0, 5654.0, 5602.0, 5540.0, 5692.0, 5258.0, 5650.0, 5302.0, 5695.0, 5436.0, 5724.0, 5344.0, 5407.0, 5444.0<br>(number of hits: 13 )                                                                                                                                                                                                                                                 |
| 30 | 5530 | 9 | 1 | 333 | 1 | 5581.0, 5384.0, 5319.0, 5509.0, 5649.0, 5610.0, 5530.0, 5577.0, 5669.0, 5267.0, 5502.0, 5463.0, 5595.0, 5709.0, 5299.0, 5665.0, 5635.0, 5676.0, 5436.0, 5304.0, 5420.0, 5371.0, 5575.0, 5516.0, 5490.0, 5573.0, 5719.0, 5684.0, 5454.0, 5297.0, 5439.0, 5391.0, 5300.0, 5308.0, 5692.0, 5362.0, 5557.0, 5452.0, 5528.0, 5650.0, 5659.0, 5560.0, 5305.0, 5680.0, 5572.0, 5260.0, 5288.0, 5641.0, 5343.0, 5423.0, 5410.0, 5395.0, 5382.0, 5722.0, 5663.0, 5374.0, 5503.0, 5625.0, 5615.0, 5689.0, 5631.0, 5258.0, 5591.0, 5281.0, 5697.0, 5713.0, 5627.0, 5296.0, 5688.0, 5701.0, 5554.0, 5698.0, 5322.0, 5607.0, 5318.0, 5283.0, 5437.0, 5285.0, 5266.0, 5275.0, 5292.0, 5651.0, 5532.0, 5337.0, 5559.0, 5356.0, 5636.0, 5593.0, 5339.0, 5352.0, 5315.0, 5710.0, 5587.0, 5250.0, 5407.0, 5443.0, 5464.0, 5571.0, 5531.0, 5655.0<br>(number of hits: 12 ) |

**5570 MHz, 160 MHz Bandwidth**

| <b>Radar Signal Type</b>      | <b>Waveform/Trial Number</b> | <b>Detection (%)</b> | <b>Limit (%)</b> | <b>Pass/Fail</b> |
|-------------------------------|------------------------------|----------------------|------------------|------------------|
| <b>Type 1A/1B</b>             | 30                           | 100 %                | 60%              | Pass             |
| <b>Type 2</b>                 | 30                           | 83.3 %               | 60%              | Pass             |
| <b>Type 3</b>                 | 30                           | 86.7 %               | 60%              | Pass             |
| <b>Type 4</b>                 | 30                           | 83.3 %               | 60%              | Pass             |
| <b>Aggregate (Type1 to 4)</b> | 120                          | 88.32 %              | 80%              | Pass             |
| <b>Type 5</b>                 | 30                           | 100 %                | 80%              | Pass             |
| <b>Type 6</b>                 | 30                           | 100 %                | 70%              | Pass             |

Please refer to the following statistical tables:

**5570 MHz, 160 MHz Bandwidth****Table-1A/1B Radar Type 1A/1B Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5570            | 72                 | 1                       | 738             | 1                              |
| 2                                            | 5570            | 59                 | 1                       | 898             | 1                              |
| 3                                            | 5570            | 78                 | 1                       | 678             | 1                              |
| 4                                            | 5570            | 83                 | 1                       | 638             | 1                              |
| 5                                            | 5570            | 70                 | 1                       | 758             | 1                              |
| 6                                            | 5492            | 65                 | 1                       | 818             | 1                              |
| 7                                            | 5492            | 92                 | 1                       | 578             | 1                              |
| 8                                            | 5492            | 95                 | 1                       | 558             | 1                              |
| 9                                            | 5492            | 62                 | 1                       | 858             | 1                              |
| 10                                           | 5492            | 61                 | 1                       | 878             | 1                              |
| 11                                           | 5648            | 86                 | 1                       | 618             | 1                              |
| 12                                           | 5648            | 18                 | 1                       | 3066            | 1                              |
| 13                                           | 5648            | 81                 | 1                       | 658             | 1                              |
| 14                                           | 5648            | 76                 | 1                       | 698             | 1                              |
| 15                                           | 5648            | 99                 | 1                       | 538             | 1                              |
| 16                                           | 5570            | 84                 | 1                       | 635             | 1                              |
| 17                                           | 5570            | 65                 | 1                       | 822             | 1                              |
| 18                                           | 5570            | 35                 | 1                       | 1529            | 1                              |
| 19                                           | 5570            | 52                 | 1                       | 1029            | 1                              |
| 20                                           | 5570            | 40                 | 1                       | 1351            | 1                              |
| 21                                           | 5492            | 38                 | 1                       | 1418            | 1                              |
| 22                                           | 5492            | 22                 | 1                       | 2472            | 1                              |
| 23                                           | 5492            | 47                 | 1                       | 1142            | 1                              |
| 24                                           | 5492            | 30                 | 1                       | 1785            | 1                              |
| 25                                           | 5492            | 20                 | 1                       | 2675            | 1                              |
| 26                                           | 5648            | 70                 | 1                       | 755             | 1                              |
| 27                                           | 5648            | 37                 | 1                       | 1438            | 1                              |
| 28                                           | 5648            | 25                 | 1                       | 2123            | 1                              |
| 29                                           | 5648            | 19                 | 1                       | 2900            | 1                              |
| 30                                           | 5648            | 88                 | 1                       | 600             | 1                              |
| <b>Detection Percentage: 100 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-2 Radar Type 2 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5570            | 29                 | 2.3                     | 166             | 1                              |
| 2                                             | 5570            | 27                 | 2.9                     | 150             | 1                              |
| 3                                             | 5570            | 23                 | 4.5                     | 223             | 1                              |
| 4                                             | 5570            | 26                 | 2.8                     | 208             | 1                              |
| 5                                             | 5570            | 29                 | 1.1                     | 202             | 1                              |
| 6                                             | 5570            | 23                 | 1.9                     | 226             | 1                              |
| 7                                             | 5570            | 27                 | 3.3                     | 165             | 1                              |
| 8                                             | 5570            | 24                 | 2.4                     | 225             | 0                              |
| 9                                             | 5570            | 26                 | 2.1                     | 222             | 1                              |
| 10                                            | 5570            | 29                 | 1.4                     | 226             | 1                              |
| 11                                            | 5492            | 28                 | 1.6                     | 226             | 1                              |
| 12                                            | 5492            | 25                 | 3.4                     | 207             | 1                              |
| 13                                            | 5492            | 29                 | 1.4                     | 225             | 0                              |
| 14                                            | 5492            | 27                 | 5                       | 155             | 1                              |
| 15                                            | 5492            | 29                 | 3.9                     | 169             | 1                              |
| 16                                            | 5492            | 23                 | 2.9                     | 222             | 1                              |
| 17                                            | 5492            | 26                 | 2.6                     | 195             | 0                              |
| 18                                            | 5492            | 24                 | 4.6                     | 155             | 1                              |
| 19                                            | 5492            | 25                 | 4.8                     | 206             | 1                              |
| 20                                            | 5492            | 23                 | 1.1                     | 192             | 0                              |
| 21                                            | 5648            | 23                 | 4                       | 167             | 1                              |
| 22                                            | 5648            | 26                 | 2.3                     | 219             | 1                              |
| 23                                            | 5648            | 26                 | 3.4                     | 168             | 1                              |
| 24                                            | 5648            | 26                 | 1.7                     | 224             | 1                              |
| 25                                            | 5648            | 24                 | 2                       | 222             | 1                              |
| 26                                            | 5648            | 28                 | 2.8                     | 155             | 1                              |
| 27                                            | 5648            | 24                 | 2.1                     | 229             | 1                              |
| 28                                            | 5648            | 26                 | 1.8                     | 181             | 0                              |
| 29                                            | 5648            | 23                 | 3.6                     | 216             | 1                              |
| 30                                            | 5648            | 28                 | 2.3                     | 201             | 1                              |
| <b>Detection Percentage: 83.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-3 Radar Type 3 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5570            | 17                 | 8.6                     | 253             | 1                              |
| 2                                             | 5570            | 18                 | 8.8                     | 289             | 1                              |
| 3                                             | 5570            | 17                 | 6.7                     | 262             | 0                              |
| 4                                             | 5570            | 18                 | 9.9                     | 429             | 1                              |
| 5                                             | 5570            | 18                 | 7.5                     | 358             | 1                              |
| 6                                             | 5570            | 17                 | 9.4                     | 297             | 1                              |
| 7                                             | 5570            | 16                 | 9.4                     | 335             | 0                              |
| 8                                             | 5570            | 18                 | 6                       | 247             | 1                              |
| 9                                             | 5570            | 16                 | 7.3                     | 392             | 1                              |
| 10                                            | 5570            | 16                 | 6.3                     | 465             | 1                              |
| 11                                            | 5492            | 18                 | 6.4                     | 432             | 1                              |
| 12                                            | 5492            | 16                 | 6.5                     | 271             | 1                              |
| 13                                            | 5492            | 18                 | 6.7                     | 203             | 1                              |
| 14                                            | 5492            | 17                 | 9.5                     | 285             | 1                              |
| 15                                            | 5492            | 18                 | 8.9                     | 318             | 1                              |
| 16                                            | 5492            | 16                 | 9                       | 445             | 1                              |
| 17                                            | 5492            | 17                 | 9.9                     | 368             | 0                              |
| 18                                            | 5492            | 17                 | 6.3                     | 311             | 1                              |
| 19                                            | 5492            | 17                 | 8.7                     | 399             | 1                              |
| 20                                            | 5492            | 16                 | 6                       | 222             | 1                              |
| 21                                            | 5648            | 17                 | 6.9                     | 219             | 1                              |
| 22                                            | 5648            | 18                 | 7.6                     | 334             | 1                              |
| 23                                            | 5648            | 16                 | 6                       | 201             | 1                              |
| 24                                            | 5648            | 16                 | 7.4                     | 254             | 1                              |
| 25                                            | 5648            | 18                 | 8.6                     | 424             | 1                              |
| 26                                            | 5648            | 16                 | 6.2                     | 351             | 1                              |
| 27                                            | 5648            | 16                 | 8.5                     | 413             | 1                              |
| 28                                            | 5648            | 16                 | 8.2                     | 313             | 0                              |
| 29                                            | 5648            | 18                 | 7.4                     | 471             | 1                              |
| 30                                            | 5648            | 17                 | 7.7                     | 483             | 1                              |
| <b>Detection Percentage: 86.7 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-4 Radar Type 4 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5570            | 12                 | 19.7                    | 279             | 1                              |
| 2                                             | 5570            | 13                 | 14.9                    | 366             | 1                              |
| 3                                             | 5570            | 13                 | 18.6                    | 330             | 0                              |
| 4                                             | 5570            | 14                 | 17.7                    | 280             | 1                              |
| 5                                             | 5570            | 14                 | 16.9                    | 225             | 1                              |
| 6                                             | 5570            | 14                 | 12.8                    | 448             | 1                              |
| 7                                             | 5570            | 15                 | 11.4                    | 455             | 1                              |
| 8                                             | 5570            | 12                 | 19.3                    | 256             | 0                              |
| 9                                             | 5570            | 13                 | 18.4                    | 343             | 1                              |
| 10                                            | 5570            | 16                 | 14.1                    | 392             | 1                              |
| 11                                            | 5492            | 12                 | 15.4                    | 253             | 1                              |
| 12                                            | 5492            | 13                 | 15.8                    | 406             | 0                              |
| 13                                            | 5492            | 13                 | 12.6                    | 457             | 0                              |
| 14                                            | 5492            | 16                 | 13.6                    | 357             | 1                              |
| 15                                            | 5492            | 16                 | 12.1                    | 315             | 1                              |
| 16                                            | 5492            | 16                 | 13.4                    | 395             | 1                              |
| 17                                            | 5492            | 16                 | 11.1                    | 471             | 0                              |
| 18                                            | 5492            | 15                 | 16.4                    | 415             | 1                              |
| 19                                            | 5492            | 15                 | 11.5                    | 315             | 1                              |
| 20                                            | 5492            | 16                 | 12.2                    | 481             | 1                              |
| 21                                            | 5648            | 14                 | 17.1                    | 207             | 1                              |
| 22                                            | 5648            | 15                 | 15.8                    | 236             | 1                              |
| 23                                            | 5648            | 16                 | 11.3                    | 478             | 1                              |
| 24                                            | 5648            | 13                 | 19.4                    | 283             | 1                              |
| 25                                            | 5648            | 16                 | 16.9                    | 225             | 1                              |
| 26                                            | 5648            | 12                 | 16.9                    | 426             | 1                              |
| 27                                            | 5648            | 15                 | 12.6                    | 283             | 1                              |
| 28                                            | 5648            | 15                 | 15.1                    | 386             | 1                              |
| 29                                            | 5648            | 15                 | 16.4                    | 456             | 1                              |
| 30                                            | 5648            | 12                 | 12.8                    | 359             | 1                              |
| <b>Detection Percentage: 83.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-5 Radar Type 5 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------------------|
| 1                                            | 5570            | 1                              |
| 2                                            | 5570            | 1                              |
| 3                                            | 5570            | 1                              |
| 4                                            | 5570            | 1                              |
| 5                                            | 5570            | 1                              |
| 6                                            | 5570            | 1                              |
| 7                                            | 5570            | 1                              |
| 8                                            | 5570            | 1                              |
| 9                                            | 5570            | 1                              |
| 10                                           | 5570            | 1                              |
| 11                                           | 5494.8          | 1                              |
| 12                                           | 5498.8          | 1                              |
| 13                                           | 5497.2          | 1                              |
| 14                                           | 5498.8          | 1                              |
| 15                                           | 5497.2          | 1                              |
| 16                                           | 5497.6          | 1                              |
| 17                                           | 5494.8          | 1                              |
| 18                                           | 5495.6          | 1                              |
| 19                                           | 5500.0          | 1                              |
| 20                                           | 5498.8          | 1                              |
| 21                                           | 5641.2          | 1                              |
| 22                                           | 5645.2          | 1                              |
| 23                                           | 5643.6          | 1                              |
| 24                                           | 5642.4          | 1                              |
| 25                                           | 5644.4          | 1                              |
| 26                                           | 5644.4          | 1                              |
| 27                                           | 5640.4          | 1                              |
| 28                                           | 5644.4          | 1                              |
| 29                                           | 5643.6          | 1                              |
| 30                                           | 5642.0          | 1                              |
| <b>Detection Percentage: 100 % (&gt;80%)</b> |                 |                                |

## 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          | 94.3             | 1920                   | -                      | 0.774217       | 1                       |
| 1       | 1     | 13          | 54.4             | -                      | -                      | 1.315484       |                         |
| 2       | 3     | 13          | 67.2             | 1720                   | 1185                   | 2.302798       |                         |
| 3       | 2     | 13          | 77               | 1814                   | -                      | 3.004255       |                         |
| 4       | 1     | 13          | 60               | -                      | -                      | 4.267467       |                         |
| 5       | 1     | 13          | 77.7             | -                      | -                      | 5.444746       |                         |
| 6       | 2     | 13          | 81               | 1962                   | -                      | 6.228422       |                         |
| 7       | 2     | 13          | 59.8             | 1167                   | -                      | 6.933854       |                         |
| 8       | 2     | 13          | 53.4             | 1065                   | -                      | 8.09186        |                         |
| 9       | 1     | 13          | 50.8             | -                      | -                      | 8.677463       |                         |
| 10      | 1     | 13          | 89.5             | -                      | -                      | 9.480658       |                         |
| 11      | 1     | 13          | 57.2             | -                      | -                      | 10.812152      |                         |
| 12      | 3     | 13          | 51.7             | 1192                   | 1551                   | 11.881371      |                         |

## 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     | 14          | 80               | 1229                   | -                      | 0.290757       | 1                       |
| 1       | 3     | 14          | 84.5             | 1256                   | 1145                   | 0.736369       |                         |
| 2       | 2     | 14          | 96               | 1142                   | -                      | 1.835326       |                         |
| 3       | 1     | 14          | 52.7             | -                      | -                      | 2.280989       |                         |
| 4       | 2     | 14          | 77.4             | 1745                   | -                      | 3.054179       |                         |
| 5       | 2     | 14          | 67.6             | 1482                   | -                      | 3.284162       |                         |
| 6       | 2     | 14          | 50.5             | 1564                   | -                      | 4.303189       |                         |
| 7       | 1     | 14          | 84.9             | -                      | -                      | 4.942272       |                         |
| 8       | 2     | 14          | 91               | 1647                   | -                      | 5.249515       |                         |
| 9       | 1     | 14          | 96.4             | -                      | -                      | 5.69403        |                         |
| 10      | 1     | 14          | 90.2             | -                      | -                      | 6.517351       |                         |
| 11      | 1     | 14          | 71.6             | -                      | -                      | 7.341483       |                         |
| 12      | 3     | 14          | 84.2             | 1727                   | 1734                   | 8.175789       |                         |
| 13      | 2     | 14          | 96.5             | 1281                   | -                      | 8.356908       |                         |
| 14      | 1     | 14          | 93.1             | -                      | -                      | 9.416081       |                         |
| 15      | 2     | 14          | 78               | 1357                   | -                      | 9.913091       |                         |
| 16      | 3     | 14          | 66.3             | 1670                   | 1206                   | 10.126367      |                         |
| 17      | 2     | 14          | 65.9             | 1598                   | -                      | 11.194171      |                         |
| 18      | 3     | 14          | 66               | 1733                   | 1215                   | 11.580127      |                         |

## Bin5 Statistics 3

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 10          | 63.9             | -                      | -                      | 0.102366       | 1                       |
| 1       | 3     | 10          | 95.2             | 1184                   | 1838                   | 0.777808       |                         |
| 2       | 2     | 10          | 76.4             | 1259                   | -                      | 1.602199       |                         |
| 3       | 2     | 10          | 98.2             | 1326                   | -                      | 2.596574       |                         |
| 4       | 2     | 10          | 58               | 1563                   | -                      | 3.203141       |                         |
| 5       | 3     | 10          | 54.3             | 1532                   | 1765                   | 4.360144       |                         |
| 6       | 2     | 10          | 92.2             | 1223                   | -                      | 4.621217       |                         |
| 7       | 1     | 10          | 69.5             | -                      | -                      | 5.956555       |                         |
| 8       | 1     | 10          | 69.4             | -                      | -                      | 6.102886       |                         |
| 9       | 2     | 10          | 66.9             | 1624                   | -                      | 7.054473       |                         |
| 10      | 2     | 10          | 95.4             | 1384                   | -                      | 7.624453       |                         |
| 11      | 3     | 10          | 80.5             | 1424                   | 1598                   | 8.461766       |                         |
| 12      | 3     | 10          | 62.9             | 1089                   | 1037                   | 9.134959       |                         |
| 13      | 2     | 10          | 57.2             | 1410                   | -                      | 9.780418       |                         |
| 14      | 2     | 10          | 95.9             | 1135                   | -                      | 11.176589      |                         |
| 15      | 2     | 10          | 93.5             | 1932                   | -                      | 11.488918      |                         |

## 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     | 7           | 97               | -                      | -                      | 0.14049        | 1                       |
| 1       | 1     | 7           | 72.2             | -                      | -                      | 1.46424        |                         |
| 2       | 2     | 7           | 78.4             | 1625                   | -                      | 2.921678       |                         |
| 3       | 2     | 7           | 90.6             | 1874                   | -                      | 4.747055       |                         |
| 4       | 2     | 7           | 86.8             | 1737                   | -                      | 5.509377       |                         |
| 5       | 1     | 7           | 98.5             | -                      | -                      | 6.937159       |                         |
| 6       | 3     | 7           | 76.9             | 1827                   | 1247                   | 8.360697       |                         |
| 7       | 1     | 7           | 96.1             | -                      | -                      | 9.440509       |                         |
| 8       | 1     | 7           | 86.2             | -                      | -                      | 11.146867      |                         |

## Bin5 Statistics 5

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 14          | 50.2             | -                      | -                      | 1.327275       | 1                       |
| 1       | 2     | 14          | 59.4             | 1696                   | -                      | 1.390798       |                         |
| 2       | 3     | 14          | 58.9             | 1309                   | 1247                   | 3.29991        |                         |
| 3       | 1     | 14          | 68.4             | -                      | -                      | 4.461599       |                         |
| 4       | 3     | 14          | 71.4             | 1545                   | 1432                   | 6.23728        |                         |
| 5       | 1     | 14          | 77.3             | -                      | -                      | 6.762382       |                         |
| 6       | 1     | 14          | 61.4             | -                      | -                      | 8.145005       |                         |
| 7       | 1     | 14          | 92.6             | -                      | -                      | 9.673634       |                         |
| 8       | 2     | 14          | 82.9             | 1098                   | -                      | 11.275041      |                         |

## 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          | 73.6             | 1858                   | -                      | 0.244465       | 1                       |
| 1       | 1     | 12          | 75.6             | -                      | -                      | 0.717551       |                         |
| 2       | 2     | 12          | 65.4             | 1058                   | -                      | 1.505978       |                         |
| 3       | 1     | 12          | 55.9             | -                      | -                      | 2.291279       |                         |
| 4       | 1     | 12          | 91.4             | -                      | -                      | 3.037176       |                         |
| 5       | 2     | 12          | 74.6             | 1614                   | -                      | 3.509134       |                         |
| 6       | 2     | 12          | 77.7             | 1653                   | -                      | 4.205848       |                         |
| 7       | 2     | 12          | 95.6             | 1447                   | -                      | 4.701785       |                         |
| 8       | 2     | 12          | 55.6             | 1055                   | -                      | 5.536496       |                         |
| 9       | 2     | 12          | 56               | 1551                   | -                      | 6.274938       |                         |
| 10      | 2     | 12          | 75.3             | 1707                   | -                      | 7.088452       |                         |
| 11      | 2     | 12          | 52.5             | 1174                   | -                      | 7.691636       |                         |
| 12      | 2     | 12          | 53.4             | 1680                   | -                      | 8.016321       |                         |
| 13      | 2     | 12          | 84               | 1212                   | -                      | 8.670626       |                         |
| 14      | 2     | 12          | 74.2             | 1986                   | -                      | 9.358293       |                         |
| 15      | 2     | 12          | 60.2             | 1412                   | -                      | 10.008098      |                         |
| 16      | 1     | 12          | 73.1             | -                      | -                      | 11.098669      |                         |
| 17      | 1     | 12          | 93.9             | -                      | -                      | 11.573799      |                         |

## 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     | 9           | 79.8             | 1512                   | 1762                   | 0.574951       | 1                       |
| 1       | 3     | 9           | 53.3             | 1854                   | 1996                   | 1.230727       |                         |
| 2       | 1     | 9           | 93.6             | -                      | -                      | 1.425654       |                         |
| 3       | 2     | 9           | 58.9             | 1496                   | -                      | 2.524529       |                         |
| 4       | 2     | 9           | 90.2             | 1530                   | -                      | 3.004248       |                         |
| 5       | 1     | 9           | 53.3             | -                      | -                      | 3.596672       |                         |
| 6       | 2     | 9           | 57.1             | 1152                   | -                      | 4.654224       |                         |
| 7       | 2     | 9           | 70               | 1260                   | -                      | 5.318065       |                         |
| 8       | 2     | 9           | 83.2             | 1310                   | -                      | 5.547281       |                         |
| 9       | 3     | 9           | 87               | 1458                   | 1484                   | 6.594796       |                         |
| 10      | 1     | 9           | 54.5             | -                      | -                      | 7.14967        |                         |
| 11      | 2     | 9           | 50.1             | 1498                   | -                      | 7.916875       |                         |
| 12      | 1     | 9           | 83.4             | -                      | -                      | 8.59975        |                         |
| 13      | 2     | 9           | 66.1             | 1643                   | -                      | 8.973936       |                         |
| 14      | 2     | 9           | 64.2             | 1371                   | -                      | 9.938554       |                         |
| 15      | 2     | 9           | 74.7             | 1972                   | -                      | 10.38109       |                         |
| 16      | 3     | 9           | 63.7             | 1479                   | 1472                   | 11.161852      |                         |
| 17      | 2     | 9           | 76.6             | 1255                   | -                      | 11.904655      |                         |

## 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     | 7           | 72.1             | -                      | -                      | 0.284046       | 1                       |
| 1       | 1     | 7           | 78.7             | -                      | -                      | 1.601195       |                         |
| 2       | 2     | 7           | 71.1             | 1274                   | -                      | 2.502947       |                         |
| 3       | 2     | 7           | 73.6             | 1145                   | -                      | 3.369425       |                         |
| 4       | 2     | 7           | 87.6             | 1447                   | -                      | 4.698055       |                         |
| 5       | 1     | 7           | 77               | -                      | -                      | 6.109736       |                         |
| 6       | 1     | 7           | 50.8             | -                      | -                      | 7.082144       |                         |
| 7       | 2     | 7           | 77.2             | 1232                   | -                      | 8.575613       |                         |
| 8       | 1     | 7           | 55.2             | -                      | -                      | 9.355427       |                         |
| 9       | 2     | 7           | 83               | 1544                   | -                      | 10.816358      |                         |
| 10      | 3     | 7           | 74.4             | 1184                   | 1302                   | 11.111284      |                         |

## Bin5 Statistics 9

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 16          | 56.6             | 1962                   | -                      | 0.279693       | 1                       |
| 1       | 1     | 16          | 73.6             | -                      | -                      | 2.061674       |                         |
| 2       | 3     | 16          | 96.1             | 1937                   | 1555                   | 2.655486       |                         |
| 3       | 2     | 16          | 67.3             | 1996                   | -                      | 4.730662       |                         |
| 4       | 3     | 16          | 65.8             | 1195                   | 1679                   | 5.787781       |                         |
| 5       | 1     | 16          | 78               | -                      | -                      | 6.344594       |                         |
| 6       | 2     | 16          | 65.3             | 1007                   | -                      | 7.73856        |                         |
| 7       | 1     | 16          | 81.8             | -                      | -                      | 8.547042       |                         |
| 8       | 3     | 16          | 98.9             | 1613                   | 1016                   | 10.748775      |                         |
| 9       | 2     | 16          | 87.8             | 1277                   | -                      | 10.954         |                         |

## 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           | 95.4             | 1461                   | -                      | 0.080272       | 1                       |
| 1       | 3     | 9           | 55               | 1224                   | 1697                   | 1.076733       |                         |
| 2       | 2     | 9           | 63               | 1536                   | -                      | 1.430462       |                         |
| 3       | 2     | 9           | 84.2             | 1010                   | -                      | 2.65018        |                         |
| 4       | 3     | 9           | 50.2             | 1790                   | 1299                   | 3.281258       |                         |
| 5       | 2     | 9           | 85.1             | 1943                   | -                      | 3.592894       |                         |
| 6       | 2     | 9           | 94.6             | 1660                   | -                      | 4.352284       |                         |
| 7       | 2     | 9           | 83.3             | 1897                   | -                      | 5.164996       |                         |
| 8       | 1     | 9           | 85.1             | -                      | -                      | 5.67653        |                         |
| 9       | 2     | 9           | 88.2             | 1635                   | -                      | 6.415013       |                         |
| 10      | 2     | 9           | 62.4             | 1321                   | -                      | 6.946532       |                         |
| 11      | 2     | 9           | 50.3             | 1202                   | -                      | 7.956163       |                         |
| 12      | 2     | 9           | 99.2             | 1517                   | -                      | 8.471135       |                         |
| 13      | 2     | 9           | 65               | 1374                   | -                      | 8.726686       |                         |
| 14      | 2     | 9           | 71.6             | 1436                   | -                      | 9.949929       |                         |
| 15      | 3     | 9           | 59.6             | 1447                   | 1324                   | 10.519154      |                         |
| 16      | 2     | 9           | 57.2             | 1238                   | -                      | 11.013468      |                         |
| 17      | 1     | 9           | 83               | -                      | -                      | 11.56847       |                         |

## 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     | 7           | 79.9             | 1623                   | 1476                   | 0.063652       | 1                       |
| 1       | 2     | 7           | 62.1             | 1778                   | -                      | 1.384351       |                         |
| 2       | 2     | 7           | 50.6             | 1786                   | -                      | 3.48717        |                         |
| 3       | 2     | 7           | 85.9             | 1841                   | -                      | 4.015544       |                         |
| 4       | 3     | 7           | 77.2             | 1258                   | 1340                   | 6.14859        |                         |
| 5       | 3     | 7           | 77.3             | 1562                   | 1434                   | 7.62627        |                         |
| 6       | 3     | 7           | 71.6             | 1221                   | 1814                   | 8.370699       |                         |
| 7       | 3     | 7           | 75.3             | 1316                   | 1882                   | 9.629053       |                         |
| 8       | 3     | 7           | 55.9             | 1755                   | 1580                   | 11.675875      |                         |

## 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     | 17          | 52.1             | 1587                   | -                      | 0.007897       | 1                       |
| 1       | 2     | 17          | 66.8             | 1473                   | -                      | 1.196352       |                         |
| 2       | 1     | 17          | 84.8             | -                      | -                      | 2.474          |                         |
| 3       | 1     | 17          | 62               | -                      | -                      | 3.454628       |                         |
| 4       | 3     | 17          | 64.9             | 1383                   | 1582                   | 4.705018       |                         |
| 5       | 3     | 17          | 83.7             | 1711                   | 1776                   | 5.55559        |                         |
| 6       | 2     | 17          | 91.6             | 1022                   | -                      | 6.750976       |                         |
| 7       | 1     | 17          | 96.3             | -                      | -                      | 7.732989       |                         |
| 8       | 2     | 17          | 67.3             | 1473                   | -                      | 9.437633       |                         |
| 9       | 2     | 17          | 95.8             | 1427                   | -                      | 10.592067      |                         |
| 10      | 2     | 17          | 61.5             | 1692                   | -                      | 11.115692      |                         |

## Bin5 Statistics 13

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 13          | 62.8             | 1760                   | 1318                   | 0.659224       | 1                       |
| 1       | 2     | 13          | 76.1             | 1704                   | -                      | 1.053388       |                         |
| 2       | 2     | 13          | 72.5             | 1454                   | -                      | 1.968528       |                         |
| 3       | 2     | 13          | 96.4             | 1611                   | -                      | 2.815661       |                         |
| 4       | 2     | 13          | 66.3             | 1858                   | -                      | 3.390898       |                         |
| 5       | 3     | 13          | 56.4             | 1402                   | 1376                   | 3.73319        |                         |
| 6       | 2     | 13          | 54.7             | 1934                   | -                      | 4.692817       |                         |
| 7       | 2     | 13          | 90.7             | 1725                   | -                      | 5.58513        |                         |
| 8       | 3     | 13          | 97.4             | 1356                   | 1390                   | 5.930025       |                         |
| 9       | 2     | 13          | 53               | 1327                   | -                      | 6.387309       |                         |
| 10      | 1     | 13          | 74.2             | -                      | -                      | 7.283793       |                         |
| 11      | 2     | 13          | 89.8             | 1810                   | -                      | 8.07356        |                         |
| 12      | 3     | 13          | 54.8             | 1321                   | 1389                   | 8.904596       |                         |
| 13      | 3     | 13          | 64.2             | 1545                   | 1354                   | 9.429514       |                         |
| 14      | 3     | 13          | 74.9             | 1180                   | 1377                   | 10.154894      |                         |
| 15      | 2     | 13          | 99.5             | 1038                   | -                      | 10.759362      |                         |
| 16      | 3     | 13          | 53               | 1785                   | 1816                   | 11.955271      |                         |

## 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     | 17          | 59.9             | 1721                   | -                      | 0.404765       | 1                       |
| 1       | 2     | 17          | 76.5             | 1801                   | -                      | 0.787015       |                         |
| 2       | 1     | 17          | 56.4             | -                      | -                      | 1.393773       |                         |
| 3       | 3     | 17          | 87.8             | 1463                   | 1576                   | 2.23731        |                         |
| 4       | 2     | 17          | 91.3             | 1528                   | -                      | 2.673892       |                         |
| 5       | 2     | 17          | 60.8             | 1552                   | -                      | 3.234093       |                         |
| 6       | 1     | 17          | 67.1             | -                      | -                      | 3.989111       |                         |
| 7       | 2     | 17          | 67.5             | 1403                   | -                      | 5.038921       |                         |
| 8       | 3     | 17          | 55.6             | 1624                   | 1607                   | 5.146329       |                         |
| 9       | 3     | 17          | 75               | 1451                   | 1177                   | 6.221308       |                         |
| 10      | 2     | 17          | 55.2             | 1932                   | -                      | 6.837748       |                         |
| 11      | 2     | 17          | 88.9             | 1000                   | -                      | 7.112585       |                         |
| 12      | 2     | 17          | 91               | 1450                   | -                      | 8.092419       |                         |
| 13      | 2     | 17          | 93.1             | 1492                   | -                      | 8.36687        |                         |
| 14      | 3     | 17          | 96.6             | 1057                   | 1924                   | 9.422913       |                         |
| 15      | 2     | 17          | 94.4             | 1112                   | -                      | 9.764751       |                         |
| 16      | 2     | 17          | 73               | 1790                   | -                      | 10.600791      |                         |
| 17      | 1     | 17          | 77.2             | -                      | -                      | 10.846794      |                         |
| 18      | 2     | 17          | 81.9             | 1602                   | -                      | 11.809128      |                         |

## 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     | 13          | 96.3             | 1777                   | -                      | 0.652368       | 1                       |
| 1       | 3     | 13          | 75.7             | 1007                   | 1038                   | 1.342666       |                         |
| 2       | 1     | 13          | 66.5             | -                      | -                      | 2.23771        |                         |
| 3       | 2     | 13          | 63.2             | 1598                   | -                      | 2.546201       |                         |
| 4       | 3     | 13          | 63.5             | 1265                   | 1480                   | 3.690729       |                         |
| 5       | 2     | 13          | 83.3             | 1791                   | -                      | 4.378632       |                         |
| 6       | 3     | 13          | 84.8             | 1209                   | 1794                   | 5.153726       |                         |
| 7       | 2     | 13          | 64.9             | 1629                   | -                      | 5.582446       |                         |
| 8       | 3     | 13          | 92.3             | 1992                   | 1753                   | 6.249691       |                         |
| 9       | 1     | 13          | 69.1             | -                      | -                      | 7.454206       |                         |
| 10      | 3     | 13          | 87.1             | 1010                   | 1801                   | 8.191354       |                         |
| 11      | 2     | 13          | 93.3             | 1335                   | -                      | 8.305558       |                         |
| 12      | 2     | 13          | 59.4             | 1152                   | -                      | 9.501728       |                         |
| 13      | 1     | 13          | 81.7             | -                      | -                      | 10.299634      |                         |
| 14      | 3     | 13          | 67.9             | 1695                   | 1063                   | 11.138121      |                         |
| 15      | 1     | 13          | 77.4             | -                      | -                      | 11.606118      |                         |

## 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     | 14          | 76.9             | 1413                   | -                      | 0.584193       | 1                       |
| 1       | 1     | 14          | 52               | -                      | -                      | 0.944152       |                         |
| 2       | 1     | 14          | 72               | -                      | -                      | 1.99082        |                         |
| 3       | 3     | 14          | 59.5             | 1275                   | 1686                   | 2.952752       |                         |
| 4       | 3     | 14          | 65.2             | 1069                   | 1610                   | 4.127264       |                         |
| 5       | 3     | 14          | 52               | 1897                   | 1763                   | 5.259645       |                         |
| 6       | 2     | 14          | 90.2             | 1876                   | -                      | 5.774926       |                         |
| 7       | 2     | 14          | 60.5             | 1919                   | -                      | 7.023082       |                         |
| 8       | 3     | 14          | 73               | 1964                   | 1382                   | 8.195862       |                         |
| 9       | 3     | 14          | 56               | 1315                   | 1077                   | 8.396368       |                         |
| 10      | 2     | 14          | 79.7             | 1090                   | -                      | 9.955965       |                         |
| 11      | 2     | 14          | 66               | 1847                   | -                      | 10.664103      |                         |
| 12      | 2     | 14          | 90.6             | 1293                   | -                      | 11.543918      |                         |

## 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     | 7           | 67.8             | 1144                   | -                      | 0.008059       | 1                       |
| 1       | 2     | 7           | 52.1             | 1278                   | -                      | 1.862813       |                         |
| 2       | 2     | 7           | 97.3             | 1084                   | -                      | 2.202541       |                         |
| 3       | 2     | 7           | 66.3             | 1810                   | -                      | 3.886828       |                         |
| 4       | 1     | 7           | 85.6             | -                      | -                      | 4.123954       |                         |
| 5       | 1     | 7           | 53               | -                      | -                      | 5.877077       |                         |
| 6       | 2     | 7           | 51.9             | 1709                   | -                      | 6.617395       |                         |
| 7       | 2     | 7           | 72.2             | 1133                   | -                      | 7.621545       |                         |
| 8       | 1     | 7           | 89.9             | -                      | -                      | 8.644033       |                         |
| 9       | 3     | 7           | 55.8             | 1660                   | 1704                   | 9.70873        |                         |
| 10      | 1     | 7           | 96.3             | -                      | -                      | 10.960125      |                         |
| 11      | 2     | 7           | 93.5             | 1612                   | -                      | 11.285377      |                         |

## 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     | 9           | 76.3             | -                      | -                      | 0.158922       | 1                       |
| 1       | 2     | 9           | 65.2             | 1583                   | -                      | 1.012304       |                         |
| 2       | 1     | 9           | 95.9             | -                      | -                      | 1.383208       |                         |
| 3       | 3     | 9           | 51.9             | 1032                   | 1802                   | 2.325964       |                         |
| 4       | 2     | 9           | 99.8             | 1799                   | -                      | 2.704334       |                         |
| 5       | 3     | 9           | 79.8             | 1242                   | 1259                   | 3.567462       |                         |
| 6       | 2     | 9           | 59.4             | 1574                   | -                      | 3.908508       |                         |
| 7       | 3     | 9           | 95.6             | 1646                   | 1025                   | 4.577009       |                         |
| 8       | 3     | 9           | 77               | 1219                   | 1476                   | 5.496312       |                         |
| 9       | 3     | 9           | 82.9             | 1939                   | 1035                   | 6.264375       |                         |
| 10      | 3     | 9           | 95.6             | 1064                   | 1222                   | 6.507284       |                         |
| 11      | 2     | 9           | 69.8             | 1910                   | -                      | 7.009429       |                         |
| 12      | 1     | 9           | 56.7             | -                      | -                      | 7.851805       |                         |
| 13      | 2     | 9           | 97.9             | 1530                   | -                      | 8.674354       |                         |
| 14      | 2     | 9           | 94.1             | 1975                   | -                      | 9.208242       |                         |
| 15      | 2     | 9           | 55.7             | 1945                   | -                      | 9.548309       |                         |
| 16      | 2     | 9           | 60.1             | 1833                   | -                      | 10.420453      |                         |
| 17      | 2     | 9           | 71.3             | 1087                   | -                      | 10.884537      |                         |
| 18      | 3     | 9           | 61.3             | 1996                   | 1891                   | 11.461937      |                         |

## 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     | 20          | 62.9             | 1004                   | -                      | 0.307118       | 1                       |
| 1       | 2     | 20          | 80.6             | 1070                   | -                      | 0.879598       |                         |
| 2       | 3     | 20          | 77.6             | 1962                   | 1878                   | 1.827293       |                         |
| 3       | 1     | 20          | 76.9             | -                      | -                      | 2.44057        |                         |
| 4       | 3     | 20          | 78.8             | 1934                   | 1228                   | 2.989378       |                         |
| 5       | 3     | 20          | 99.8             | 1908                   | 1030                   | 3.764652       |                         |
| 6       | 2     | 20          | 55.6             | 1213                   | -                      | 4.032688       |                         |
| 7       | 2     | 20          | 99.1             | 1598                   | -                      | 4.577749       |                         |
| 8       | 3     | 20          | 90.2             | 1152                   | 1525                   | 5.373066       |                         |
| 9       | 1     | 20          | 82.4             | -                      | -                      | 6.281054       |                         |
| 10      | 3     | 20          | 87.4             | 1737                   | 1910                   | 6.554443       |                         |
| 11      | 3     | 20          | 78               | 1871                   | 1202                   | 7.181149       |                         |
| 12      | 2     | 20          | 60.1             | 1434                   | -                      | 7.927721       |                         |
| 13      | 1     | 20          | 74.3             | -                      | -                      | 8.321619       |                         |
| 14      | 1     | 20          | 55.5             | -                      | -                      | 9.233681       |                         |
| 15      | 2     | 20          | 52.7             | 1151                   | -                      | 9.544911       |                         |
| 16      | 3     | 20          | 78.6             | 1586                   | 1444                   | 10.131893      |                         |
| 17      | 2     | 20          | 89.3             | 1462                   | -                      | 10.739728      |                         |
| 18      | 2     | 20          | 83.4             | 1317                   | -                      | 11.911429      |                         |

## 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     | 17          | 72.8             | 1823                   | 1265                   | 0.068593       | 1                       |
| 1       | 1     | 17          | 93.3             | -                      | -                      | 2.080985       |                         |
| 2       | 2     | 17          | 90.5             | 1463                   | -                      | 3.044871       |                         |
| 3       | 2     | 17          | 90.9             | 1339                   | -                      | 4.516871       |                         |
| 4       | 2     | 17          | 52.3             | 1947                   | -                      | 5.663823       |                         |
| 5       | 3     | 17          | 79.8             | 1304                   | 1236                   | 6.819134       |                         |
| 6       | 2     | 17          | 84.3             | 1916                   | -                      | 7.982672       |                         |
| 7       | 2     | 17          | 97.5             | 1670                   | -                      | 9.470554       |                         |
| 8       | 2     | 17          | 83.2             | 1717                   | -                      | 10.71266       |                         |
| 9       | 1     | 17          | 76.2             | -                      | -                      | 10.962708      |                         |

## 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     | 17          | 54.7             | 1703                   | -                      | 0.851202       | 1                       |
| 1       | 2     | 17          | 78.4             | 1391                   | -                      | 1.601453       |                         |
| 2       | 1     | 17          | 72.6             | -                      | -                      | 2.672209       |                         |
| 3       | 2     | 17          | 99.9             | 1109                   | -                      | 5.154996       |                         |
| 4       | 2     | 17          | 68.1             | 1779                   | -                      | 5.820499       |                         |
| 5       | 3     | 17          | 81.5             | 1217                   | 1147                   | 7.628515       |                         |
| 6       | 2     | 17          | 93.4             | 1979                   | -                      | 8.59295        |                         |
| 7       | 2     | 17          | 82.7             | 1199                   | -                      | 9.449275       |                         |
| 8       | 3     | 17          | 73.9             | 1037                   | 1255                   | 11.659255      |                         |

## Bin5 Statistics 22

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 7           | 62.4             | 1988                   | 1249                   | 0.591335       | 1                       |
| 1       | 2     | 7           | 54.1             | 1318                   | -                      | 1.320287       |                         |
| 2       | 1     | 7           | 77               | -                      | -                      | 2.194483       |                         |
| 3       | 2     | 7           | 99               | 1343                   | -                      | 2.818258       |                         |
| 4       | 3     | 7           | 52               | 1617                   | 1262                   | 4.524037       |                         |
| 5       | 2     | 7           | 89.4             | 1328                   | -                      | 5.444708       |                         |
| 6       | 2     | 7           | 86.7             | 1670                   | -                      | 5.726627       |                         |
| 7       | 1     | 7           | 76.3             | -                      | -                      | 7.269618       |                         |
| 8       | 3     | 7           | 93.5             | 1261                   | 1518                   | 7.711518       |                         |
| 9       | 2     | 7           | 78.7             | 1556                   | -                      | 8.343776       |                         |
| 10      | 3     | 7           | 92.3             | 1441                   | 1994                   | 9.513336       |                         |
| 11      | 2     | 7           | 94.6             | 1278                   | -                      | 10.686744      |                         |
| 12      | 2     | 7           | 57.4             | 1883                   | -                      | 11.818473      |                         |

## 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     | 11          | 76.6             | 1898                   | -                      | 0.684702       | 1                       |
| 1       | 3     | 11          | 70.4             | 1501                   | 1794                   | 1.067305       |                         |
| 2       | 2     | 11          | 52               | 1075                   | -                      | 1.697634       |                         |
| 3       | 2     | 11          | 87.9             | 1462                   | -                      | 2.422423       |                         |
| 4       | 1     | 11          | 65.2             | -                      | -                      | 3.523061       |                         |
| 5       | 3     | 11          | 53.6             | 1582                   | 1900                   | 4.481366       |                         |
| 6       | 1     | 11          | 65.4             | -                      | -                      | 4.80782        |                         |
| 7       | 2     | 11          | 90.6             | 1643                   | -                      | 5.964409       |                         |
| 8       | 2     | 11          | 70.8             | 1672                   | -                      | 6.47518        |                         |
| 9       | 1     | 11          | 79.2             | -                      | -                      | 7.989354       |                         |
| 10      | 2     | 11          | 58.5             | 1502                   | -                      | 8.515614       |                         |
| 11      | 3     | 11          | 56.7             | 1406                   | 1154                   | 9.499488       |                         |
| 12      | 2     | 11          | 66.6             | 1561                   | -                      | 10.282477      |                         |
| 13      | 3     | 11          | 51.5             | 1508                   | 1745                   | 11.138006      |                         |
| 14      | 1     | 11          | 98.5             | -                      | -                      | 11.552986      |                         |

## 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     | 14          | 93.9             | -                      | -                      | 0.773179       | 1                       |
| 1       | 2     | 14          | 79.8             | 1204                   | -                      | 1.351192       |                         |
| 2       | 3     | 14          | 89.6             | 1316                   | 1872                   | 2.331655       |                         |
| 3       | 2     | 14          | 59.6             | 1891                   | -                      | 3.392054       |                         |
| 4       | 2     | 14          | 63.8             | 1753                   | -                      | 3.544647       |                         |
| 5       | 3     | 14          | 83.6             | 1518                   | 1361                   | 5.047534       |                         |
| 6       | 3     | 14          | 79.6             | 1359                   | 1493                   | 5.425126       |                         |
| 7       | 3     | 14          | 64.7             | 1177                   | 1519                   | 6.618719       |                         |
| 8       | 1     | 14          | 59.9             | -                      | -                      | 7.111433       |                         |
| 9       | 2     | 14          | 79.3             | 1934                   | -                      | 8.236735       |                         |
| 10      | 2     | 14          | 62.9             | 1805                   | -                      | 8.955501       |                         |
| 11      | 2     | 14          | 67.3             | 1865                   | -                      | 9.897471       |                         |
| 12      | 1     | 14          | 60.7             | -                      | -                      | 11.045875      |                         |
| 13      | 2     | 14          | 95.3             | 1422                   | -                      | 11.865962      |                         |

## 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     | 9           | 82.7             | -                      | -                      | 0.029231       | 1                       |
| 1       | 3     | 9           | 75.2             | 1950                   | 1161                   | 0.927999       |                         |
| 2       | 3     | 9           | 84.4             | 1248                   | 1666                   | 2.453169       |                         |
| 3       | 1     | 9           | 67               | -                      | -                      | 3.102133       |                         |
| 4       | 2     | 9           | 67.4             | 1803                   | -                      | 3.761583       |                         |
| 5       | 3     | 9           | 81.7             | 1534                   | 1458                   | 4.81189        |                         |
| 6       | 2     | 9           | 57.4             | 1109                   | -                      | 5.903057       |                         |
| 7       | 2     | 9           | 64.1             | 1283                   | -                      | 6.621001       |                         |
| 8       | 1     | 9           | 63.7             | -                      | -                      | 7.428181       |                         |
| 9       | 1     | 9           | 58.1             | -                      | -                      | 8.488309       |                         |
| 10      | 3     | 9           | 91.1             | 1203                   | 1289                   | 9.186531       |                         |
| 11      | 3     | 9           | 93.5             | 1905                   | 1202                   | 9.466149       |                         |
| 12      | 1     | 9           | 81               | -                      | -                      | 10.975251      |                         |
| 13      | 3     | 9           | 55.9             | 1480                   | 1139                   | 11.446054      |                         |

## Bin5 Statistics 26

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 9           | 87.6             | 1097                   | -                      | 0.275706       | 1                       |
| 1       | 1     | 9           | 53.3             | -                      | -                      | 1.098541       |                         |
| 2       | 2     | 9           | 85.7             | 1187                   | -                      | 1.928882       |                         |
| 3       | 2     | 9           | 63.2             | 1588                   | -                      | 2.572315       |                         |
| 4       | 1     | 9           | 55.7             | -                      | -                      | 3.021209       |                         |
| 5       | 1     | 9           | 77               | -                      | -                      | 4.20626        |                         |
| 6       | 2     | 9           | 83               | 1119                   | -                      | 4.475307       |                         |
| 7       | 3     | 9           | 57.1             | 1449                   | 1913                   | 5.535602       |                         |
| 8       | 2     | 9           | 91.7             | 1081                   | -                      | 5.755733       |                         |
| 9       | 1     | 9           | 78.3             | -                      | -                      | 6.378066       |                         |
| 10      | 1     | 9           | 57.2             | -                      | -                      | 7.683099       |                         |
| 11      | 3     | 9           | 81.6             | 1670                   | 1745                   | 8.303596       |                         |
| 12      | 1     | 9           | 50.1             | -                      | -                      | 8.59279        |                         |
| 13      | 2     | 9           | 51.5             | 1176                   | -                      | 9.199443       |                         |
| 14      | 2     | 9           | 79.2             | 1585                   | -                      | 10.35078       |                         |
| 15      | 3     | 9           | 54.1             | 1089                   | 1449                   | 11.262612      |                         |
| 16      | 1     | 9           | 83.1             | -                      | -                      | 11.408555      |                         |

## 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          | 84.8             | 1733                   | -                      | 0.437539       | 1                       |
| 1       | 1     | 19          | 61.8             | -                      | -                      | 1.331271       |                         |
| 2       | 2     | 19          | 97.1             | 1809                   | -                      | 1.573759       |                         |
| 3       | 1     | 19          | 73               | -                      | -                      | 2.4413         |                         |
| 4       | 2     | 19          | 88.3             | 1467                   | -                      | 3.272422       |                         |
| 5       | 3     | 19          | 55               | 1404                   | 1619                   | 4.169853       |                         |
| 6       | 2     | 19          | 77.3             | 1198                   | -                      | 4.747668       |                         |
| 7       | 2     | 19          | 73.5             | 1436                   | -                      | 5.948124       |                         |
| 8       | 2     | 19          | 60.3             | 1840                   | -                      | 6.424527       |                         |
| 9       | 1     | 19          | 88.7             | -                      | -                      | 6.947807       |                         |
| 10      | 2     | 19          | 96.6             | 1428                   | -                      | 7.977936       |                         |
| 11      | 3     | 19          | 94.7             | 1101                   | 1827                   | 8.851693       |                         |
| 12      | 2     | 19          | 59.8             | 1409                   | -                      | 9.545342       |                         |
| 13      | 1     | 19          | 82.4             | -                      | -                      | 9.926557       |                         |
| 14      | 2     | 19          | 57.6             | 1777                   | -                      | 10.678564      |                         |
| 15      | 3     | 19          | 87.3             | 1816                   | 1579                   | 11.856233      |                         |

## Bin5 Statistics 28

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 9           | 63.2             | 1118                   | -                      | 1.177047       | 1                       |
| 1       | 2     | 9           | 67.2             | 1741                   | -                      | 2.389468       |                         |
| 2       | 2     | 9           | 69.9             | 1686                   | -                      | 2.90667        |                         |
| 3       | 3     | 9           | 99.7             | 1560                   | 1957                   | 4.576457       |                         |
| 4       | 2     | 9           | 72.9             | 1122                   | -                      | 5.79968        |                         |
| 5       | 1     | 9           | 63               | -                      | -                      | 6.942188       |                         |
| 6       | 1     | 9           | 89.6             | -                      | -                      | 7.889717       |                         |
| 7       | 3     | 9           | 66.1             | 1162                   | 1328                   | 9.449839       |                         |
| 8       | 1     | 9           | 81.6             | -                      | -                      | 9.89224        |                         |
| 9       | 1     | 9           | 74.1             | -                      | -                      | 11.223501      |                         |

## 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          | 51               | 1652                   | -                      | 0.235182       | 1                       |
| 1       | 3     | 11          | 58.8             | 1381                   | 1602                   | 1.157091       |                         |
| 2       | 3     | 11          | 74               | 1859                   | 1363                   | 1.688896       |                         |
| 3       | 1     | 11          | 67.8             | -                      | -                      | 2.303473       |                         |
| 4       | 1     | 11          | 67.8             | -                      | -                      | 2.9531         |                         |
| 5       | 3     | 11          | 76.2             | 1202                   | 1890                   | 3.33049        |                         |
| 6       | 2     | 11          | 68.5             | 1813                   | -                      | 4.407061       |                         |
| 7       | 2     | 11          | 60.7             | 1520                   | -                      | 4.875254       |                         |
| 8       | 1     | 11          | 63.5             | -                      | -                      | 5.361767       |                         |
| 9       | 3     | 11          | 90               | 1449                   | 1322                   | 6.0923         |                         |
| 10      | 1     | 11          | 56.7             | -                      | -                      | 6.621648       |                         |
| 11      | 3     | 11          | 71.1             | 1211                   | 1682                   | 7.066157       |                         |
| 12      | 2     | 11          | 63.3             | 1281                   | -                      | 7.681651       |                         |
| 13      | 2     | 11          | 65.3             | 1412                   | -                      | 8.393859       |                         |
| 14      | 1     | 11          | 78.5             | -                      | -                      | 8.924247       |                         |
| 15      | 2     | 11          | 65               | 1733                   | -                      | 10.005845      |                         |
| 16      | 2     | 11          | 59.3             | 1135                   | -                      | 10.30064       |                         |
| 17      | 2     | 11          | 81.3             | 1518                   | -                      | 11.336391      |                         |
| 18      | 1     | 11          | 92.1             | -                      | -                      | 11.558343      |                         |

## 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     | 15          | 95.7             | 1938                   | -                      | 0.76855        | 1                       |
| 1       | 2     | 15          | 69.8             | 1407                   | -                      | 1.158607       |                         |
| 2       | 1     | 15          | 68.1             | -                      | -                      | 1.994554       |                         |
| 3       | 1     | 15          | 55.6             | -                      | -                      | 2.901049       |                         |
| 4       | 2     | 15          | 59.5             | 1237                   | -                      | 3.559573       |                         |
| 5       | 3     | 15          | 84.7             | 1336                   | 1660                   | 4.559613       |                         |
| 6       | 2     | 15          | 76.4             | 1489                   | -                      | 5.211396       |                         |
| 7       | 2     | 15          | 92.7             | 1528                   | -                      | 6.246955       |                         |
| 8       | 1     | 15          | 59.8             | -                      | -                      | 6.820438       |                         |
| 9       | 2     | 15          | 71.1             | 1173                   | -                      | 7.32427        |                         |
| 10      | 1     | 15          | 50.1             | -                      | -                      | 8.614968       |                         |
| 11      | 1     | 15          | 64.6             | -                      | -                      | 8.865589       |                         |
| 12      | 1     | 15          | 81.7             | -                      | -                      | 10.011854      |                         |
| 13      | 3     | 15          | 99.6             | 1185                   | 1912                   | 10.525881      |                         |
| 14      | 3     | 15          | 73.9             | 1390                   | 1003                   | 11.984834      |                         |

**Table-6 Radar Type 6 Statistical Performance**

| <b>Trial #</b> | <b>Fc (MHz)</b> | <b>Pulse /Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> | <b>Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-----------------|---------------------|-------------------------|-----------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 5570            | 9                   | 1                       | 333             | 1                              | 5379.0, 5381.0, 5523.0, 5446.0, 5485.0, 5620.0, 5655.0, 5287.0, 5448.0, 5358.0, 5656.0, 5549.0, 5627.0, 5689.0, 5260.0, 5455.0, 5298.0, 5676.0, 5610.0, 5366.0, 5426.0, 5624.0, 5550.0, 5460.0, 5363.0, 5572.0, 5342.0, 5607.0, 5278.0, 5431.0, 5507.0, 5511.0, 5352.0, 5493.0, 5477.0, 5700.0, 5269.0, 5461.0, 5331.0, 5393.0, 5628.0, 5481.0, 5717.0, 5517.0, 5644.0, 5261.0, 5464.0, 5250.0, 5721.0, 5720.0, 5492.0, 5637.0, 5502.0, 5566.0, 5503.0, 5302.0, 5348.0, 5538.0, 5670.0, 5601.0, 5590.0, 5400.0, 5698.0, 5594.0, 5434.0, 5516.0, 5500.0, 5629.0, 5693.0, 5303.0, 5442.0, 5709.0, 5415.0, 5722.0, 5565.0, 5373.0, 5457.0, 5674.0, 5562.0, 5478.0, 5540.0, 5716.0, 5264.0, 5433.0, 5641.0, 5453.0, 5554.0, 5539.0, 5710.0, 5585.0, 5315.0, 5510.0, 5564.0, 5588.0, 5411.0, 5521.0, 5561.0, 5277.0, 5537.0, 5395.0<br>(number of hits: 40 ) |
| 2              | 5570            | 9                   | 1                       | 333             | 1                              | 5701.0, 5376.0, 5536.0, 5482.0, 5588.0, 5583.0, 5407.0, 5543.0, 5674.0, 5390.0, 5476.0, 5683.0, 5363.0, 5660.0, 5295.0, 5545.0, 5553.0, 5539.0, 5567.0, 5690.0, 5313.0, 5693.0, 5453.0, 5466.0, 5342.0, 5488.0, 5580.0, 5364.0, 5361.0, 5377.0, 5322.0, 5414.0, 5518.0, 5304.0, 5383.0, 5506.0, 5381.0, 5352.0, 5320.0, 5515.0, 5409.0, 5507.0, 5578.0, 5711.0, 5622.0, 5317.0, 5394.0, 5456.0, 5463.0, 5714.0, 5607.0, 5448.0, 5415.0, 5339.0, 5310.0, 5368.0, 5723.0, 5315.0, 5253.0, 5449.0, 5441.0, 5481.0, 5630.0, 5445.0, 5273.0, 5278.0, 5465.0, 5699.0, 5495.0, 5425.0, 5438.0, 5309.0, 5478.0, 5559.0, 5552.0, 5290.0, 5307.0, 5677.0, 5645.0, 5276.0, 5417.0, 5266.0, 5670.0, 5707.0, 5659.0, 5604.0, 5548.0, 5561.0, 5284.0, 5321.0, 5252.0, 5610.0, 5289.0, 5654.0, 5718.0, 5560.0, 5599.0, 5462.0, 5691.0, 5627.0<br>(number of hits: 28 ) |
| 3              | 5570            | 9                   | 1                       | 333             | 1                              | 5505.0, 5544.0, 5468.0, 5454.0, 5533.0, 5701.0, 5595.0, 5277.0, 5430.0, 5362.0, 5410.0, 5425.0, 5252.0, 5494.0, 5383.0, 5360.0, 5618.0, 5289.0, 5462.0, 5452.0, 5265.0, 5375.0, 5266.0, 5288.0, 5377.0, 5251.0, 5714.0, 5600.0, 5662.0, 5601.0, 5339.0, 5304.0, 5258.0, 5652.0, 5632.0, 5537.0, 5440.0, 5498.0, 5445.0, 5707.0, 5397.0, 5363.0, 5583.0, 5573.0, 5542.0, 5447.0, 5681.0, 5690.0, 5622.0, 5386.0, 5522.0, 5472.0, 5524.0, 5569.0, 5644.0, 5469.0, 5521.0, 5257.0, 5606.0, 5575.0                                                                                                                                                                                                                                                                                                                                                          |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5721.0, 5672.0, 5408.0, 5582.0, 5370.0, 5710.0, 5391.0, 5367.0, 5567.0, 5466.0, 5280.0, 5639.0, 5486.0, 5719.0, 5656.0, 5254.0, 5676.0, 5704.0, 5404.0, 5673.0, 5298.0, 5550.0, 5337.0, 5503.0, 5279.0, 5327.0, 5507.0, 5348.0, 5329.0, 5599.0, 5358.0, 5585.0, 5293.0, 5300.0, 5407.0, 5679.0, 5306.0, 5553.0, 5665.0, 5675.0<br>(number of hits: 31 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4 | 5570 | 9 | 1 | 333 | 1 | 5703.0, 5533.0, 5376.0, 5566.0, 5257.0, 5413.0, 5372.0, 5298.0, 5586.0, 5527.0, 5510.0, 5366.0, 5461.0, 5590.0, 5330.0, 5482.0, 5262.0, 5650.0, 5367.0, 5619.0, 5679.0, 5701.0, 5437.0, 5317.0, 5561.0, 5514.0, 5431.0, 5568.0, 5665.0, 5653.0, 5399.0, 5723.0, 5680.0, 5548.0, 5485.0, 5690.0, 5571.0, 5715.0, 5356.0, 5481.0, 5629.0, 5497.0, 5308.0, 5382.0, 5496.0, 5291.0, 5414.0, 5654.0, 5373.0, 5435.0, 5591.0, 5639.0, 5281.0, 5530.0, 5422.0, 5269.0, 5460.0, 5380.0, 5583.0, 5377.0, 5392.0, 5694.0, 5326.0, 5385.0, 5672.0, 5657.0, 5687.0, 5693.0, 5686.0, 5609.0, 5502.0, 5506.0, 5319.0, 5296.0, 5475.0, 5322.0, 5439.0, 5379.0, 5695.0, 5538.0, 5706.0, 5333.0, 5417.0, 5467.0, 5416.0, 5478.0, 5486.0, 5505.0, 5610.0, 5400.0, 5713.0, 5544.0, 5494.0, 5352.0, 5516.0, 5620.0, 5673.0, 5354.0, 5359.0, 5350.0<br>(number of hits: 29 ) |
| 5 | 5570 | 9 | 1 | 333 | 1 | 5579.0, 5375.0, 5661.0, 5433.0, 5693.0, 5380.0, 5612.0, 5718.0, 5338.0, 5368.0, 5486.0, 5680.0, 5301.0, 5690.0, 5641.0, 5250.0, 5613.0, 5601.0, 5531.0, 5538.0, 5284.0, 5344.0, 5720.0, 5617.0, 5620.0, 5656.0, 5292.0, 5480.0, 5713.0, 5286.0, 5586.0, 5546.0, 5678.0, 5665.0, 5428.0, 5303.0, 5539.0, 5705.0, 5437.0, 5417.0, 5662.0, 5650.0, 5642.0, 5526.0, 5592.0, 5523.0, 5500.0, 5448.0, 5555.0, 5477.0, 5598.0, 5321.0, 5335.0, 5464.0, 5512.0, 5600.0, 5595.0, 5700.0, 5319.0, 5513.0, 5524.0, 5281.0, 5378.0, 5649.0, 5478.0, 5334.0, 5552.0, 5320.0, 5288.0, 5431.0, 5429.0, 5676.0, 5701.0, 5482.0, 5499.0, 5366.0, 5471.0, 5307.0, 5274.0, 5440.0, 5323.0, 5563.0, 5625.0, 5689.0, 5588.0, 5573.0, 5630.0, 5310.0, 5365.0, 5295.0, 5277.0, 5479.0, 5421.0, 5591.0, 5294.0, 5265.0, 5339.0, 5485.0, 5607.0, 5698.0<br>(number of hits: 33 ) |
| 6 | 5570 | 9 | 1 | 333 | 1 | 5688.0, 5578.0, 5371.0, 5650.0, 5706.0, 5432.0, 5363.0, 5424.0, 5560.0, 5540.0, 5276.0, 5556.0, 5676.0, 5652.0, 5614.0, 5404.0, 5521.0, 5665.0, 5594.0, 5610.0, 5701.0, 5295.0, 5695.0, 5327.0, 5339.0, 5702.0, 5653.0, 5524.0, 5417.0, 5271.0, 5454.0, 5407.0, 5709.0, 5669.0, 5647.0, 5336.0, 5482.0, 5543.0, 5538.0, 5360.0, 5333.0, 5548.0, 5722.0, 5699.0, 5352.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5343.0, 5507.0, 5370.0, 5488.0, 5446.0, 5723.0, 5487.0, 5320.0, 5633.0, 5636.0, 5592.0, 5559.0, 5291.0, 5405.0, 5433.0, 5264.0, 5509.0, 5672.0, 5638.0, 5711.0, 5463.0, 5541.0, 5497.0, 5582.0, 5459.0, 5617.0, 5573.0, 5684.0, 5558.0, 5659.0, 5490.0, 5318.0, 5704.0, 5612.0, 5498.0, 5389.0, 5595.0, 5707.0, 5457.0, 5289.0, 5465.0, 5379.0, 5694.0, 5311.0, 5602.0, 5305.0, 5477.0, 5350.0, 5470.0, 5337.0, 5297.0, 5387.0, 5620.0, 5613.0, 5657.0<br>(number of hits: 32 )                                                                                                                                                                                                                                                                                                                                                                         |
| 7 | 5570 | 9 | 1 | 333 | 1 | 5398.0, 5618.0, 5417.0, 5354.0, 5349.0, 5598.0, 5345.0, 5572.0, 5642.0, 5468.0, 5513.0, 5603.0, 5357.0, 5419.0, 5665.0, 5471.0, 5541.0, 5291.0, 5496.0, 5616.0, 5446.0, 5678.0, 5453.0, 5641.0, 5697.0, 5369.0, 5320.0, 5397.0, 5273.0, 5698.0, 5547.0, 5491.0, 5716.0, 5575.0, 5458.0, 5456.0, 5374.0, 5631.0, 5476.0, 5461.0, 5673.0, 5409.0, 5455.0, 5659.0, 5361.0, 5469.0, 5546.0, 5343.0, 5296.0, 5450.0, 5289.0, 5466.0, 5293.0, 5404.0, 5588.0, 5342.0, 5314.0, 5500.0, 5669.0, 5633.0, 5715.0, 5472.0, 5285.0, 5687.0, 5274.0, 5432.0, 5565.0, 5403.0, 5674.0, 5335.0, 5708.0, 5614.0, 5280.0, 5278.0, 5512.0, 5495.0, 5390.0, 5602.0, 5338.0, 5679.0, 5652.0, 5304.0, 5667.0, 5487.0, 5597.0, 5428.0, 5427.0, 5536.0, 5465.0, 5719.0, 5364.0, 5521.0, 5593.0, 5288.0, 5367.0, 5270.0, 5542.0, 5441.0, 5556.0, 5490.0<br>(number of hits: 28 ) |
| 8 | 5570 | 9 | 1 | 333 | 1 | 5461.0, 5523.0, 5641.0, 5486.0, 5652.0, 5374.0, 5694.0, 5418.0, 5617.0, 5525.0, 5639.0, 5497.0, 5491.0, 5656.0, 5485.0, 5528.0, 5298.0, 5556.0, 5563.0, 5477.0, 5404.0, 5526.0, 5564.0, 5296.0, 5607.0, 5335.0, 5409.0, 5406.0, 5394.0, 5637.0, 5285.0, 5403.0, 5311.0, 5658.0, 5389.0, 5327.0, 5555.0, 5677.0, 5679.0, 5608.0, 5346.0, 5324.0, 5709.0, 5289.0, 5351.0, 5323.0, 5631.0, 5514.0, 5651.0, 5413.0, 5517.0, 5460.0, 5689.0, 5326.0, 5672.0, 5263.0, 5676.0, 5378.0, 5308.0, 5325.0, 5518.0, 5590.0, 5471.0, 5544.0, 5331.0, 5502.0, 5294.0, 5344.0, 5432.0, 5458.0, 5283.0, 5468.0, 5699.0, 5707.0, 5622.0, 5408.0, 5273.0, 5580.0, 5613.0, 5451.0, 5667.0, 5642.0, 5503.0, 5583.0, 5715.0, 5281.0, 5718.0, 5383.0, 5624.0, 5659.0, 5513.0, 5353.0, 5397.0, 5387.0, 5264.0, 5318.0, 5466.0, 5663.0, 5530.0, 5482.0<br>(number of hits: 31 ) |
| 9 | 5570 | 9 | 1 | 333 | 1 | 5665.0, 5391.0, 5299.0, 5395.0, 5276.0, 5626.0, 5288.0, 5454.0, 5474.0, 5464.0, 5463.0, 5255.0, 5348.0, 5375.0, 5684.0, 5569.0, 5550.0, 5412.0, 5361.0, 5264.0, 5408.0, 5440.0, 5403.0, 5407.0, 5687.0, 5396.0, 5317.0, 5695.0, 5524.0, 5287.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5596.0, 5575.0, 5300.0, 5442.0, 5428.0, 5346.0, 5682.0, 5611.0, 5436.0, 5642.0, 5250.0, 5618.0, 5331.0, 5260.0, 5291.0, 5712.0, 5333.0, 5538.0, 5490.0, 5432.0, 5593.0, 5664.0, 5493.0, 5304.0, 5336.0, 5446.0, 5614.0, 5254.0, 5564.0, 5424.0, 5324.0, 5374.0, 5582.0, 5259.0, 5632.0, 5266.0, 5461.0, 5557.0, 5431.0, 5320.0, 5600.0, 5387.0, 5581.0, 5638.0, 5316.0, 5352.0, 5425.0, 5531.0, 5444.0, 5417.0, 5364.0, 5717.0, 5526.0, 5422.0, 5636.0, 5676.0, 5519.0, 5650.0, 5670.0, 5349.0, 5457.0, 5473.0, 5393.0, 5332.0, 5580.0, 5663.0, 5499.0, 5656.0, 5495.0, 5658.0<br>(number of hits: 27 )                                                                                                                                                                                                                                                 |
| 10 | 5570 | 9 | 1 | 333 | 1 | 5292.0, 5433.0, 5562.0, 5469.0, 5580.0, 5480.0, 5487.0, 5508.0, 5261.0, 5585.0, 5596.0, 5452.0, 5329.0, 5683.0, 5607.0, 5272.0, 5260.0, 5430.0, 5603.0, 5357.0, 5613.0, 5298.0, 5627.0, 5368.0, 5688.0, 5679.0, 5474.0, 5702.0, 5563.0, 5545.0, 5438.0, 5459.0, 5336.0, 5532.0, 5500.0, 5374.0, 5420.0, 5608.0, 5283.0, 5317.0, 5492.0, 5347.0, 5369.0, 5363.0, 5664.0, 5665.0, 5457.0, 5594.0, 5378.0, 5465.0, 5511.0, 5527.0, 5643.0, 5340.0, 5600.0, 5619.0, 5440.0, 5595.0, 5315.0, 5705.0, 5572.0, 5680.0, 5385.0, 5547.0, 5293.0, 5651.0, 5444.0, 5722.0, 5509.0, 5294.0, 5604.0, 5671.0, 5569.0, 5323.0, 5278.0, 5284.0, 5543.0, 5268.0, 5335.0, 5720.0, 5518.0, 5583.0, 5434.0, 5377.0, 5564.0, 5436.0, 5305.0, 5589.0, 5424.0, 5373.0, 5538.0, 5502.0, 5694.0, 5638.0, 5591.0, 5362.0, 5322.0, 5359.0, 5356.0, 5687.0<br>(number of hits: 36 ) |
| 11 | 5570 | 9 | 1 | 333 | 1 | 5658.0, 5585.0, 5666.0, 5398.0, 5534.0, 5447.0, 5567.0, 5335.0, 5390.0, 5722.0, 5361.0, 5587.0, 5446.0, 5589.0, 5551.0, 5383.0, 5668.0, 5543.0, 5497.0, 5356.0, 5679.0, 5396.0, 5296.0, 5687.0, 5397.0, 5268.0, 5308.0, 5405.0, 5436.0, 5588.0, 5561.0, 5526.0, 5406.0, 5614.0, 5576.0, 5338.0, 5575.0, 5309.0, 5671.0, 5373.0, 5292.0, 5385.0, 5341.0, 5662.0, 5622.0, 5670.0, 5635.0, 5597.0, 5644.0, 5417.0, 5566.0, 5280.0, 5327.0, 5254.0, 5320.0, 5432.0, 5452.0, 5471.0, 5572.0, 5556.0, 5451.0, 5625.0, 5536.0, 5403.0, 5537.0, 5386.0, 5367.0, 5351.0, 5606.0, 5453.0, 5530.0, 5470.0, 5490.0, 5359.0, 5264.0, 5548.0, 5711.0, 5626.0, 5605.0, 5411.0, 5408.0, 5315.0, 5523.0, 5578.0, 5483.0, 5425.0, 5291.0, 5713.0, 5696.0, 5368.0, 5474.0, 5473.0, 5590.0, 5654.0, 5420.0, 5477.0, 5707.0, 5456.0, 5640.0, 5325.0<br>(number of hits: 33 ) |
| 12 | 5570 | 9 | 1 | 333 | 1 | 5420.0, 5384.0, 5702.0, 5454.0, 5498.0, 5619.0, 5572.0, 5480.0, 5514.0, 5467.0, 5267.0, 5470.0, 5412.0, 5290.0, 5601.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5604.0, 5501.0, 5545.0, 5466.0, 5251.0, 5408.0, 5343.0, 5597.0, 5650.0, 5472.0, 5403.0, 5617.0, 5334.0, 5295.0, 5375.0, 5613.0, 5433.0, 5256.0, 5681.0, 5319.0, 5335.0, 5569.0, 5348.0, 5270.0, 5337.0, 5715.0, 5442.0, 5471.0, 5443.0, 5462.0, 5612.0, 5481.0, 5381.0, 5423.0, 5607.0, 5294.0, 5549.0, 5544.0, 5404.0, 5434.0, 5415.0, 5344.0, 5308.0, 5495.0, 5441.0, 5298.0, 5535.0, 5422.0, 5577.0, 5392.0, 5427.0, 5588.0, 5713.0, 5293.0, 5496.0, 5602.0, 5536.0, 5347.0, 5573.0, 5666.0, 5311.0, 5723.0, 5599.0, 5395.0, 5635.0, 5590.0, 5299.0, 5407.0, 5289.0, 5620.0, 5586.0, 5574.0, 5277.0, 5521.0, 5367.0, 5363.0, 5668.0, 5658.0, 5303.0, 5479.0, 5589.0, 5370.0, 5275.0, 5660.0, 5646.0<br>(number of hits: 33 )                                                                                                                         |
| 13 | 5570 | 9 | 1 | 333 | 1 | 5395.0, 5275.0, 5583.0, 5575.0, 5673.0, 5490.0, 5552.0, 5269.0, 5388.0, 5626.0, 5618.0, 5516.0, 5319.0, 5301.0, 5364.0, 5302.0, 5621.0, 5311.0, 5565.0, 5653.0, 5309.0, 5662.0, 5545.0, 5320.0, 5402.0, 5578.0, 5488.0, 5709.0, 5413.0, 5585.0, 5500.0, 5455.0, 5708.0, 5406.0, 5264.0, 5466.0, 5349.0, 5287.0, 5323.0, 5717.0, 5420.0, 5486.0, 5603.0, 5400.0, 5522.0, 5586.0, 5503.0, 5384.0, 5260.0, 5722.0, 5517.0, 5616.0, 5263.0, 5446.0, 5381.0, 5321.0, 5266.0, 5721.0, 5313.0, 5399.0, 5273.0, 5389.0, 5550.0, 5598.0, 5608.0, 5546.0, 5467.0, 5454.0, 5635.0, 5493.0, 5359.0, 5577.0, 5440.0, 5387.0, 5687.0, 5589.0, 5326.0, 5404.0, 5710.0, 5357.0, 5464.0, 5437.0, 5723.0, 5515.0, 5421.0, 5526.0, 5529.0, 5329.0, 5639.0, 5666.0, 5718.0, 5428.0, 5678.0, 5719.0, 5453.0, 5543.0, 5416.0, 5439.0, 5607.0, 5679.0<br>(number of hits: 32 ) |
| 14 | 5570 | 9 | 1 | 333 | 1 | 5674.0, 5414.0, 5384.0, 5508.0, 5638.0, 5357.0, 5615.0, 5385.0, 5469.0, 5438.0, 5590.0, 5493.0, 5363.0, 5392.0, 5673.0, 5523.0, 5700.0, 5432.0, 5533.0, 5588.0, 5284.0, 5338.0, 5429.0, 5669.0, 5418.0, 5621.0, 5627.0, 5614.0, 5407.0, 5620.0, 5458.0, 5683.0, 5316.0, 5569.0, 5452.0, 5322.0, 5703.0, 5574.0, 5309.0, 5715.0, 5351.0, 5585.0, 5391.0, 5483.0, 5633.0, 5252.0, 5285.0, 5622.0, 5548.0, 5542.0, 5632.0, 5723.0, 5607.0, 5402.0, 5293.0, 5680.0, 5668.0, 5333.0, 5394.0, 5685.0, 5650.0, 5644.0, 5361.0, 5366.0, 5553.0, 5507.0, 5665.0, 5272.0, 5324.0, 5691.0, 5419.0, 5307.0, 5624.0, 5430.0, 5536.0, 5400.0, 5318.0, 5280.0, 5552.0, 5660.0, 5302.0, 5666.0, 5421.0, 5464.0, 5596.0, 5304.0, 5496.0, 5515.0, 5637.0, 5557.0, 5525.0, 5522.0, 5488.0, 5262.0, 5566.0, 5675.0, 5579.0, 5257.0, 5423.0, 5288.0<br>(number of hits: 36 ) |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | 5570 | 9 | 1 | 333 | 1 | 5701.0, 5697.0, 5527.0, 5618.0, 5333.0, 5459.0, 5692.0, 5421.0, 5620.0, 5335.0, 5690.0, 5391.0, 5436.0, 5610.0, 5538.0, 5287.0, 5557.0, 5627.0, 5521.0, 5686.0, 5369.0, 5640.0, 5696.0, 5574.0, 5516.0, 5720.0, 5354.0, 5488.0, 5600.0, 5309.0, 5345.0, 5524.0, 5286.0, 5370.0, 5445.0, 5684.0, 5341.0, 5477.0, 5568.0, 5623.0, 5352.0, 5405.0, 5587.0, 5506.0, 5375.0, 5363.0, 5392.0, 5578.0, 5651.0, 5672.0, 5419.0, 5438.0, 5685.0, 5676.0, 5544.0, 5569.0, 5705.0, 5541.0, 5518.0, 5494.0, 5342.0, 5337.0, 5411.0, 5507.0, 5577.0, 5699.0, 5499.0, 5289.0, 5430.0, 5252.0, 5396.0, 5612.0, 5531.0, 5282.0, 5257.0, 5417.0, 5622.0, 5379.0, 5515.0, 5270.0, 5711.0, 5570.0, 5276.0, 5552.0, 5446.0, 5683.0, 5344.0, 5383.0, 5339.0, 5472.0, 5654.0, 5402.0, 5508.0, 5695.0, 5498.0, 5647.0, 5440.0, 5511.0, 5437.0, 5271.0<br>(number of hits: 36) |
| 16 | 5570 | 9 | 1 | 333 | 1 | 5339.0, 5268.0, 5361.0, 5463.0, 5610.0, 5340.0, 5541.0, 5587.0, 5383.0, 5300.0, 5539.0, 5266.0, 5265.0, 5678.0, 5507.0, 5722.0, 5528.0, 5660.0, 5357.0, 5537.0, 5487.0, 5289.0, 5607.0, 5450.0, 5534.0, 5384.0, 5491.0, 5404.0, 5313.0, 5358.0, 5279.0, 5559.0, 5485.0, 5638.0, 5260.0, 5455.0, 5320.0, 5387.0, 5291.0, 5259.0, 5278.0, 5679.0, 5409.0, 5668.0, 5675.0, 5558.0, 5671.0, 5524.0, 5623.0, 5341.0, 5323.0, 5693.0, 5350.0, 5570.0, 5377.0, 5508.0, 5555.0, 5674.0, 5670.0, 5299.0, 5468.0, 5428.0, 5295.0, 5686.0, 5689.0, 5544.0, 5362.0, 5551.0, 5393.0, 5369.0, 5456.0, 5452.0, 5694.0, 5617.0, 5577.0, 5590.0, 5304.0, 5426.0, 5690.0, 5672.0, 5552.0, 5523.0, 5478.0, 5509.0, 5427.0, 5273.0, 5568.0, 5424.0, 5442.0, 5394.0, 5449.0, 5324.0, 5437.0, 5277.0, 5399.0, 5613.0, 5609.0, 5659.0, 5561.0, 5533.0<br>(number of hits: 30) |
| 17 | 5570 | 9 | 1 | 333 | 1 | 5656.0, 5710.0, 5688.0, 5415.0, 5336.0, 5301.0, 5498.0, 5298.0, 5643.0, 5330.0, 5659.0, 5692.0, 5253.0, 5419.0, 5652.0, 5420.0, 5430.0, 5355.0, 5497.0, 5256.0, 5708.0, 5722.0, 5634.0, 5327.0, 5534.0, 5270.0, 5300.0, 5438.0, 5545.0, 5403.0, 5681.0, 5674.0, 5335.0, 5334.0, 5259.0, 5261.0, 5528.0, 5698.0, 5447.0, 5567.0, 5412.0, 5463.0, 5313.0, 5354.0, 5453.0, 5369.0, 5496.0, 5721.0, 5464.0, 5588.0, 5624.0, 5595.0, 5517.0, 5660.0, 5342.0, 5658.0, 5622.0, 5314.0, 5699.0, 5274.0, 5289.0, 5372.0, 5633.0, 5439.0, 5686.0, 5311.0, 5359.0, 5461.0, 5402.0, 5375.0, 5620.0, 5684.0, 5550.0, 5598.0, 5703.0, 5613.0, 5626.0, 5504.0, 5431.0, 5297.0, 5265.0, 5590.0, 5392.0, 5404.0, 5333.0, 5648.0, 5321.0, 5491.0, 5317.0, 5329.0                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5338.0, 5549.0, 5285.0, 5601.0, 5273.0, 5399.0, 5599.0, 5275.0, 5476.0, 5401.0<br>(number of hits: 25 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 18 | 5570 | 9 | 1 | 333 | 1 | 5384.0, 5558.0, 5520.0, 5380.0, 5324.0, 5457.0, 5369.0, 5595.0, 5614.0, 5605.0, 5337.0, 5709.0, 5379.0, 5309.0, 5499.0, 5434.0, 5475.0, 5348.0, 5495.0, 5306.0, 5670.0, 5548.0, 5618.0, 5556.0, 5702.0, 5653.0, 5537.0, 5293.0, 5435.0, 5281.0, 5490.0, 5446.0, 5345.0, 5297.0, 5340.0, 5700.0, 5453.0, 5691.0, 5616.0, 5421.0, 5473.0, 5266.0, 5650.0, 5292.0, 5367.0, 5353.0, 5604.0, 5354.0, 5696.0, 5607.0, 5497.0, 5592.0, 5524.0, 5588.0, 5485.0, 5373.0, 5664.0, 5458.0, 5491.0, 5521.0, 5627.0, 5274.0, 5465.0, 5383.0, 5447.0, 5331.0, 5681.0, 5385.0, 5697.0, 5323.0, 5715.0, 5662.0, 5632.0, 5635.0, 5693.0, 5584.0, 5411.0, 5644.0, 5639.0, 5479.0, 5300.0, 5440.0, 5420.0, 5567.0, 5261.0, 5698.0, 5679.0, 5684.0, 5466.0, 5255.0, 5624.0, 5528.0, 5412.0, 5471.0, 5484.0, 5388.0, 5554.0, 5429.0, 5612.0, 5701.0<br>(number of hits: 30 ) |
| 19 | 5570 | 9 | 1 | 333 | 1 | 5632.0, 5295.0, 5538.0, 5580.0, 5256.0, 5422.0, 5342.0, 5403.0, 5482.0, 5678.0, 5604.0, 5509.0, 5371.0, 5621.0, 5655.0, 5571.0, 5454.0, 5528.0, 5516.0, 5483.0, 5481.0, 5722.0, 5288.0, 5502.0, 5280.0, 5506.0, 5562.0, 5608.0, 5612.0, 5569.0, 5294.0, 5366.0, 5523.0, 5394.0, 5289.0, 5671.0, 5641.0, 5451.0, 5452.0, 5593.0, 5444.0, 5596.0, 5724.0, 5470.0, 5255.0, 5685.0, 5432.0, 5540.0, 5588.0, 5574.0, 5489.0, 5688.0, 5720.0, 5633.0, 5282.0, 5557.0, 5439.0, 5620.0, 5592.0, 5708.0, 5300.0, 5359.0, 5434.0, 5490.0, 5314.0, 5442.0, 5539.0, 5414.0, 5268.0, 5270.0, 5468.0, 5650.0, 5600.0, 5565.0, 5449.0, 5396.0, 5377.0, 5601.0, 5554.0, 5527.0, 5479.0, 5348.0, 5702.0, 5328.0, 5715.0, 5543.0, 5363.0, 5322.0, 5711.0, 5436.0, 5652.0, 5560.0, 5634.0, 5438.0, 5389.0, 5435.0, 5656.0, 5267.0, 5253.0, 5676.0<br>(number of hits: 35 ) |
| 20 | 5570 | 9 | 1 | 333 | 1 | 5709.0, 5656.0, 5570.0, 5598.0, 5537.0, 5441.0, 5689.0, 5519.0, 5601.0, 5604.0, 5277.0, 5325.0, 5609.0, 5704.0, 5550.0, 5257.0, 5513.0, 5527.0, 5655.0, 5574.0, 5283.0, 5304.0, 5563.0, 5350.0, 5363.0, 5301.0, 5438.0, 5615.0, 5661.0, 5347.0, 5447.0, 5579.0, 5344.0, 5562.0, 5358.0, 5548.0, 5517.0, 5390.0, 5634.0, 5619.0, 5417.0, 5612.0, 5256.0, 5525.0, 5682.0, 5632.0, 5552.0, 5628.0, 5526.0, 5555.0, 5404.0, 5252.0, 5505.0, 5348.0, 5295.0, 5339.0, 5399.0, 5385.0, 5565.0, 5482.0, 5697.0, 5315.0, 5663.0, 5653.0, 5386.0, 5515.0, 5330.0, 5254.0, 5313.0, 5588.0, 5572.0, 5398.0, 5625.0, 5488.0, 5674.0,                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5591.0, 5357.0, 5544.0, 5436.0, 5577.0, 5434.0, 5516.0, 5475.0, 5508.0, 5466.0, 5439.0, 5424.0, 5280.0, 5480.0, 5671.0, 5391.0, 5649.0, 5557.0, 5593.0, 5546.0, 5415.0, 5564.0, 5677.0, 5679.0, 5626.0<br>(number of hits: 42 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 21 | 5570 | 9 | 1 | 333 | 1 | 5435.0, 5482.0, 5703.0, 5374.0, 5338.0, 5627.0, 5302.0, 5321.0, 5600.0, 5455.0, 5597.0, 5356.0, 5513.0, 5535.0, 5392.0, 5390.0, 5481.0, 5371.0, 5630.0, 5522.0, 5289.0, 5410.0, 5546.0, 5465.0, 5253.0, 5333.0, 5537.0, 5271.0, 5595.0, 5632.0, 5670.0, 5388.0, 5404.0, 5710.0, 5491.0, 5611.0, 5269.0, 5691.0, 5301.0, 5278.0, 5507.0, 5437.0, 5629.0, 5345.0, 5647.0, 5421.0, 5675.0, 5497.0, 5714.0, 5339.0, 5711.0, 5422.0, 5473.0, 5561.0, 5288.0, 5336.0, 5516.0, 5364.0, 5543.0, 5498.0, 5616.0, 5375.0, 5471.0, 5500.0, 5432.0, 5483.0, 5556.0, 5515.0, 5613.0, 5456.0, 5379.0, 5494.0, 5608.0, 5373.0, 5525.0, 5559.0, 5448.0, 5262.0, 5273.0, 5361.0, 5572.0, 5365.0, 5261.0, 5380.0, 5320.0, 5621.0, 5397.0, 5601.0, 5344.0, 5451.0, 5674.0, 5653.0, 5436.0, 5579.0, 5523.0, 5699.0, 5512.0, 5671.0, 5695.0, 5651.0<br>(number of hits: 35 ) |
| 22 | 5570 | 9 | 1 | 333 | 1 | 5372.0, 5330.0, 5477.0, 5552.0, 5641.0, 5432.0, 5491.0, 5411.0, 5341.0, 5459.0, 5381.0, 5412.0, 5516.0, 5397.0, 5499.0, 5428.0, 5614.0, 5677.0, 5695.0, 5335.0, 5522.0, 5629.0, 5593.0, 5391.0, 5535.0, 5570.0, 5470.0, 5479.0, 5400.0, 5380.0, 5638.0, 5553.0, 5669.0, 5326.0, 5426.0, 5667.0, 5447.0, 5288.0, 5343.0, 5308.0, 5507.0, 5273.0, 5615.0, 5493.0, 5640.0, 5683.0, 5340.0, 5452.0, 5619.0, 5717.0, 5485.0, 5705.0, 5255.0, 5671.0, 5489.0, 5303.0, 5608.0, 5429.0, 5427.0, 5362.0, 5533.0, 5348.0, 5252.0, 5525.0, 5551.0, 5329.0, 5389.0, 5541.0, 5561.0, 5536.0, 5278.0, 5379.0, 5269.0, 5576.0, 5687.0, 5434.0, 5584.0, 5692.0, 5624.0, 5534.0, 5277.0, 5623.0, 5711.0, 5283.0, 5702.0, 5304.0, 5616.0, 5521.0, 5532.0, 5655.0, 5366.0, 5395.0, 5557.0, 5457.0, 5644.0, 5618.0, 5505.0, 5274.0, 5531.0, 5396.0<br>(number of hits: 37 ) |
| 23 | 5570 | 9 | 1 | 333 | 1 | 5686.0, 5660.0, 5538.0, 5289.0, 5418.0, 5307.0, 5543.0, 5445.0, 5380.0, 5681.0, 5274.0, 5552.0, 5650.0, 5614.0, 5715.0, 5400.0, 5694.0, 5677.0, 5442.0, 5504.0, 5556.0, 5257.0, 5476.0, 5705.0, 5657.0, 5470.0, 5514.0, 5607.0, 5411.0, 5529.0, 5594.0, 5266.0, 5684.0, 5469.0, 5420.0, 5602.0, 5606.0, 5687.0, 5651.0, 5367.0, 5579.0, 5386.0, 5722.0, 5298.0, 5633.0, 5342.0, 5537.0, 5533.0, 5450.0, 5383.0, 5653.0, 5559.0, 5663.0, 5570.0, 5649.0, 5668.0, 5475.0, 5611.0, 5719.0, 5335.0,                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5698.0, 5652.0, 5495.0, 5414.0, 5493.0, 5710.0, 5467.0, 5706.0, 5323.0, 5636.0, 5369.0, 5511.0, 5641.0, 5397.0, 5664.0, 5317.0, 5267.0, 5550.0, 5366.0, 5387.0, 5415.0, 5497.0, 5539.0, 5379.0, 5676.0, 5621.0, 5562.0, 5521.0, 5620.0, 5334.0, 5665.0, 5320.0, 5494.0, 5659.0, 5413.0, 5466.0, 5436.0, 5283.0, 5382.0, 5574.0<br>(number of hits: 33 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 24 | 5570 | 9 | 1 | 333 | 1 | 5626.0, 5406.0, 5374.0, 5679.0, 5571.0, 5279.0, 5611.0, 5341.0, 5332.0, 5537.0, 5622.0, 5416.0, 5351.0, 5562.0, 5345.0, 5459.0, 5396.0, 5712.0, 5498.0, 5285.0, 5636.0, 5258.0, 5415.0, 5570.0, 5674.0, 5615.0, 5718.0, 5709.0, 5600.0, 5398.0, 5567.0, 5390.0, 5335.0, 5670.0, 5662.0, 5649.0, 5314.0, 5382.0, 5422.0, 5443.0, 5453.0, 5477.0, 5575.0, 5330.0, 5460.0, 5381.0, 5432.0, 5391.0, 5532.0, 5411.0, 5478.0, 5607.0, 5410.0, 5301.0, 5540.0, 5315.0, 5654.0, 5678.0, 5312.0, 5384.0, 5685.0, 5530.0, 5506.0, 5463.0, 5366.0, 5593.0, 5690.0, 5594.0, 5252.0, 5446.0, 5361.0, 5717.0, 5465.0, 5713.0, 5565.0, 5517.0, 5556.0, 5555.0, 5577.0, 5550.0, 5624.0, 5403.0, 5375.0, 5544.0, 5485.0, 5311.0, 5494.0, 5700.0, 5370.0, 5271.0, 5262.0, 5305.0, 5680.0, 5602.0, 5283.0, 5274.0, 5704.0, 5542.0, 5558.0, 5691.0<br>(number of hits: 32 ) |
| 25 | 5570 | 9 | 1 | 333 | 1 | 5272.0, 5464.0, 5523.0, 5533.0, 5720.0, 5706.0, 5442.0, 5375.0, 5716.0, 5659.0, 5262.0, 5717.0, 5694.0, 5364.0, 5671.0, 5587.0, 5644.0, 5547.0, 5380.0, 5426.0, 5486.0, 5299.0, 5548.0, 5549.0, 5397.0, 5697.0, 5384.0, 5376.0, 5564.0, 5410.0, 5622.0, 5298.0, 5594.0, 5415.0, 5408.0, 5518.0, 5709.0, 5617.0, 5451.0, 5361.0, 5438.0, 5536.0, 5490.0, 5558.0, 5517.0, 5590.0, 5428.0, 5670.0, 5601.0, 5446.0, 5608.0, 5579.0, 5321.0, 5542.0, 5270.0, 5483.0, 5687.0, 5358.0, 5645.0, 5654.0, 5688.0, 5274.0, 5378.0, 5648.0, 5427.0, 5291.0, 5349.0, 5563.0, 5381.0, 5493.0, 5623.0, 5637.0, 5400.0, 5704.0, 5525.0, 5395.0, 5387.0, 5495.0, 5389.0, 5524.0, 5256.0, 5643.0, 5305.0, 5258.0, 5388.0, 5655.0, 5556.0, 5425.0, 5401.0, 5503.0, 5253.0, 5521.0, 5344.0, 5699.0, 5578.0, 5691.0, 5507.0, 5476.0, 5288.0, 5597.0<br>(number of hits: 35 ) |
| 26 | 5570 | 9 | 1 | 333 | 1 | 5468.0, 5553.0, 5632.0, 5683.0, 5674.0, 5663.0, 5629.0, 5336.0, 5421.0, 5381.0, 5626.0, 5262.0, 5532.0, 5557.0, 5320.0, 5622.0, 5431.0, 5500.0, 5330.0, 5327.0, 5410.0, 5386.0, 5574.0, 5313.0, 5535.0, 5540.0, 5361.0, 5339.0, 5378.0, 5665.0, 5519.0, 5565.0, 5515.0, 5545.0, 5447.0, 5268.0, 5411.0, 5472.0, 5520.0, 5371.0, 5476.0, 5618.0, 5576.0, 5317.0, 5609.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5707.0, 5653.0, 5350.0, 5705.0, 5575.0, 5617.0, 5560.0, 5555.0, 5355.0, 5429.0, 5493.0, 5338.0, 5387.0, 5521.0, 5363.0, 5546.0, 5380.0, 5623.0, 5524.0, 5507.0, 5712.0, 5664.0, 5483.0, 5538.0, 5390.0, 5704.0, 5634.0, 5466.0, 5596.0, 5686.0, 5497.0, 5582.0, 5544.0, 5527.0, 5503.0, 5424.0, 5635.0, 5639.0, 5308.0, 5321.0, 5453.0, 5588.0, 5645.0, 5486.0, 5498.0, 5391.0, 5595.0, 5490.0, 5427.0, 5633.0, 5345.0, 5412.0, 5456.0, 5643.0, 5659.0<br>(number of hits: 45 )                                                                                                                                                                                                                                                                                                                                                                         |
| 27 | 5570 | 9 | 1 | 333 | 1 | 5427.0, 5655.0, 5491.0, 5531.0, 5345.0, 5467.0, 5313.0, 5365.0, 5302.0, 5267.0, 5508.0, 5619.0, 5453.0, 5393.0, 5563.0, 5311.0, 5451.0, 5414.0, 5305.0, 5288.0, 5591.0, 5403.0, 5320.0, 5674.0, 5587.0, 5478.0, 5667.0, 5406.0, 5559.0, 5722.0, 5669.0, 5576.0, 5303.0, 5660.0, 5671.0, 5397.0, 5677.0, 5708.0, 5404.0, 5441.0, 5604.0, 5665.0, 5363.0, 5386.0, 5375.0, 5556.0, 5541.0, 5377.0, 5416.0, 5596.0, 5500.0, 5689.0, 5296.0, 5504.0, 5723.0, 5341.0, 5292.0, 5714.0, 5569.0, 5618.0, 5661.0, 5505.0, 5653.0, 5691.0, 5659.0, 5634.0, 5480.0, 5314.0, 5470.0, 5374.0, 5709.0, 5370.0, 5633.0, 5262.0, 5392.0, 5367.0, 5310.0, 5433.0, 5381.0, 5683.0, 5526.0, 5625.0, 5449.0, 5681.0, 5710.0, 5629.0, 5510.0, 5637.0, 5712.0, 5362.0, 5306.0, 5513.0, 5412.0, 5608.0, 5687.0, 5487.0, 5372.0, 5437.0, 5415.0, 5464.0<br>(number of hits: 26 ) |
| 28 | 5570 | 9 | 1 | 333 | 1 | 5701.0, 5475.0, 5661.0, 5659.0, 5270.0, 5588.0, 5478.0, 5654.0, 5518.0, 5650.0, 5604.0, 5558.0, 5594.0, 5680.0, 5682.0, 5266.0, 5497.0, 5715.0, 5681.0, 5714.0, 5252.0, 5354.0, 5590.0, 5691.0, 5292.0, 5358.0, 5506.0, 5378.0, 5561.0, 5357.0, 5708.0, 5277.0, 5662.0, 5669.0, 5511.0, 5640.0, 5464.0, 5568.0, 5343.0, 5538.0, 5434.0, 5593.0, 5327.0, 5474.0, 5560.0, 5355.0, 5598.0, 5627.0, 5622.0, 5416.0, 5495.0, 5646.0, 5502.0, 5283.0, 5652.0, 5637.0, 5371.0, 5702.0, 5387.0, 5315.0, 5528.0, 5441.0, 5719.0, 5655.0, 5465.0, 5684.0, 5331.0, 5455.0, 5716.0, 5367.0, 5293.0, 5394.0, 5641.0, 5540.0, 5412.0, 5524.0, 5699.0, 5436.0, 5668.0, 5512.0, 5675.0, 5577.0, 5673.0, 5445.0, 5409.0, 5534.0, 5552.0, 5399.0, 5341.0, 5663.0, 5258.0, 5529.0, 5563.0, 5391.0, 5591.0, 5393.0, 5595.0, 5709.0, 5651.0, 5508.0<br>(number of hits: 35 ) |
| 29 | 5570 | 9 | 1 | 333 | 1 | 5400.0, 5450.0, 5463.0, 5298.0, 5574.0, 5673.0, 5281.0, 5437.0, 5540.0, 5282.0, 5259.0, 5588.0, 5407.0, 5277.0, 5336.0, 5310.0, 5690.0, 5492.0, 5573.0, 5610.0, 5327.0, 5328.0, 5614.0, 5420.0, 5333.0, 5351.0, 5300.0, 5278.0, 5720.0, 5394.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5388.0, 5558.0, 5569.0, 5555.0, 5572.0, 5670.0, 5352.0, 5489.0, 5621.0, 5334.0, 5384.0, 5585.0, 5274.0, 5683.0, 5257.0, 5598.0, 5444.0, 5648.0, 5557.0, 5434.0, 5299.0, 5584.0, 5515.0, 5634.0, 5568.0, 5347.0, 5366.0, 5541.0, 5717.0, 5321.0, 5570.0, 5581.0, 5375.0, 5565.0, 5705.0, 5672.0, 5513.0, 5429.0, 5436.0, 5678.0, 5688.0, 5280.0, 5563.0, 5651.0, 5617.0, 5591.0, 5287.0, 5502.0, 5275.0, 5703.0, 5301.0, 5378.0, 5626.0, 5709.0, 5712.0, 5471.0, 5427.0, 5355.0, 5288.0, 5342.0, 5689.0, 5586.0, 5694.0, 5508.0, 5459.0, 5711.0, 5676.0, 5410.0, 5406.0, 5666.0<br>(number of hits: 31 )                                                                                                                                                                                                                                                 |
| 30 | 5570 | 9 | 1 | 333 | 1 | 5549.0, 5559.0, 5599.0, 5686.0, 5542.0, 5557.0, 5383.0, 5664.0, 5507.0, 5263.0, 5439.0, 5403.0, 5540.0, 5370.0, 5422.0, 5500.0, 5613.0, 5304.0, 5308.0, 5649.0, 5482.0, 5409.0, 5471.0, 5357.0, 5305.0, 5564.0, 5444.0, 5551.0, 5271.0, 5294.0, 5560.0, 5579.0, 5284.0, 5492.0, 5713.0, 5276.0, 5362.0, 5639.0, 5368.0, 5270.0, 5616.0, 5483.0, 5636.0, 5519.0, 5515.0, 5721.0, 5339.0, 5535.0, 5366.0, 5398.0, 5632.0, 5695.0, 5385.0, 5452.0, 5328.0, 5581.0, 5259.0, 5497.0, 5702.0, 5633.0, 5545.0, 5534.0, 5615.0, 5377.0, 5528.0, 5544.0, 5710.0, 5627.0, 5591.0, 5394.0, 5565.0, 5703.0, 5556.0, 5352.0, 5285.0, 5704.0, 5700.0, 5253.0, 5268.0, 5261.0, 5372.0, 5647.0, 5568.0, 5258.0, 5303.0, 5667.0, 5600.0, 5473.0, 5712.0, 5425.0, 5572.0, 5441.0, 5676.0, 5478.0, 5690.0, 5392.0, 5662.0, 5432.0, 5459.0, 5554.0<br>(number of hits: 38 ) |

**5 GHz – XOR Radio****5500 MHz, 20 MHz Bandwidth**

| <b>Radar Signal Type</b>      | <b>Waveform/Trial Number</b> | <b>Detection (%)</b> | <b>Limit (%)</b> | <b>Pass/Fail</b> |
|-------------------------------|------------------------------|----------------------|------------------|------------------|
| <b>Type 1A/1B</b>             | 30                           | 100 %                | 60%              | Pass             |
| <b>Type 2</b>                 | 30                           | 86.7 %               | 60%              | Pass             |
| <b>Type 3</b>                 | 30                           | 70 %                 | 60%              | Pass             |
| <b>Type 4</b>                 | 30                           | 83.3 %               | 60%              | Pass             |
| <b>Aggregate (Type1 to 4)</b> | 120                          | 85 %                 | 80%              | Pass             |
| <b>Type 5</b>                 | 30                           | 86.67 %              | 80%              | Pass             |
| <b>Type 6</b>                 | 30                           | 70 %                 | 70%              | Pass             |

Please refer to the following statistical tables:

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

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5500            | 78                 | 1                       | 678             | 1                              |
| 2                                            | 5500            | 86                 | 1                       | 618             | 1                              |
| 3                                            | 5500            | 89                 | 1                       | 598             | 1                              |
| 4                                            | 5500            | 18                 | 1                       | 3066            | 1                              |
| 5                                            | 5500            | 61                 | 1                       | 878             | 1                              |
| 6                                            | 5491.5          | 68                 | 1                       | 778             | 1                              |
| 7                                            | 5491.5          | 81                 | 1                       | 658             | 1                              |
| 8                                            | 5491.5          | 59                 | 1                       | 898             | 1                              |
| 9                                            | 5491.5          | 76                 | 1                       | 698             | 1                              |
| 10                                           | 5491.5          | 72                 | 1                       | 738             | 1                              |
| 11                                           | 5508.5          | 62                 | 1                       | 858             | 1                              |
| 12                                           | 5508.5          | 74                 | 1                       | 718             | 1                              |
| 13                                           | 5508.5          | 99                 | 1                       | 538             | 1                              |
| 14                                           | 5508.5          | 92                 | 1                       | 578             | 1                              |
| 15                                           | 5508.5          | 67                 | 1                       | 798             | 1                              |
| 16                                           | 5500            | 21                 | 1                       | 2579            | 1                              |
| 17                                           | 5500            | 75                 | 1                       | 713             | 1                              |
| 18                                           | 5500            | 51                 | 1                       | 1055            | 1                              |
| 19                                           | 5500            | 85                 | 1                       | 627             | 1                              |
| 20                                           | 5500            | 25                 | 1                       | 2185            | 1                              |
| 21                                           | 5491.5          | 20                 | 1                       | 2661            | 1                              |
| 22                                           | 5491.5          | 62                 | 1                       | 865             | 1                              |
| 23                                           | 5491.5          | 50                 | 1                       | 1058            | 1                              |
| 24                                           | 5491.5          | 20                 | 1                       | 2750            | 1                              |
| 25                                           | 5491.5          | 37                 | 1                       | 1438            | 1                              |
| 26                                           | 5508.5          | 19                 | 1                       | 2842            | 1                              |
| 27                                           | 5508.5          | 21                 | 1                       | 2523            | 1                              |
| 28                                           | 5508.5          | 32                 | 1                       | 1700            | 1                              |
| 29                                           | 5508.5          | 22                 | 1                       | 2405            | 1                              |
| 30                                           | 5508.5          | 40                 | 1                       | 1347            | 1                              |
| <b>Detection Percentage: 100 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-2 Radar Type 2 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5500            | 29                 | 2.1                     | 150             | 1                              |
| 2                                             | 5500            | 26                 | 1.1                     | 202             | 1                              |
| 3                                             | 5500            | 23                 | 1.3                     | 157             | 1                              |
| 4                                             | 5500            | 24                 | 3.4                     | 154             | 1                              |
| 5                                             | 5500            | 24                 | 4.3                     | 228             | 1                              |
| 6                                             | 5500            | 25                 | 1.6                     | 204             | 1                              |
| 7                                             | 5500            | 29                 | 4.8                     | 163             | 0                              |
| 8                                             | 5500            | 25                 | 1.5                     | 225             | 1                              |
| 9                                             | 5500            | 26                 | 5                       | 221             | 1                              |
| 10                                            | 5500            | 24                 | 4.5                     | 153             | 1                              |
| 11                                            | 5491.5          | 23                 | 3.5                     | 167             | 1                              |
| 12                                            | 5491.5          | 29                 | 1.4                     | 225             | 1                              |
| 13                                            | 5491.5          | 26                 | 3.9                     | 191             | 0                              |
| 14                                            | 5491.5          | 28                 | 1.9                     | 205             | 1                              |
| 15                                            | 5491.5          | 28                 | 2                       | 212             | 1                              |
| 16                                            | 5491.5          | 25                 | 3.6                     | 175             | 1                              |
| 17                                            | 5491.5          | 24                 | 4.6                     | 177             | 1                              |
| 18                                            | 5491.5          | 23                 | 2.5                     | 188             | 1                              |
| 19                                            | 5491.5          | 25                 | 3.4                     | 221             | 1                              |
| 20                                            | 5491.5          | 23                 | 2.1                     | 167             | 0                              |
| 21                                            | 5508.5          | 29                 | 3.5                     | 178             | 1                              |
| 22                                            | 5508.5          | 23                 | 4.8                     | 161             | 1                              |
| 23                                            | 5508.5          | 23                 | 3.6                     | 178             | 1                              |
| 24                                            | 5508.5          | 27                 | 4.7                     | 203             | 1                              |
| 25                                            | 5508.5          | 28                 | 3.2                     | 197             | 1                              |
| 26                                            | 5508.5          | 23                 | 4.9                     | 155             | 0                              |
| 27                                            | 5508.5          | 27                 | 2.7                     | 203             | 1                              |
| 28                                            | 5508.5          | 24                 | 4.3                     | 229             | 1                              |
| 29                                            | 5508.5          | 25                 | 2.2                     | 156             | 1                              |
| 30                                            | 5508.5          | 23                 | 4                       | 220             | 1                              |
| <b>Detection Percentage: 86.7 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-3 Radar Type 3 Statistical Performance**

| <b>Trial #</b>                              | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|---------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                           | 5500            | 16                 | 10                      | 410             | 1                              |
| 2                                           | 5500            | 16                 | 8.1                     | 480             | 1                              |
| 3                                           | 5500            | 16                 | 7.5                     | 402             | 0                              |
| 4                                           | 5500            | 18                 | 9.8                     | 428             | 1                              |
| 5                                           | 5500            | 18                 | 8                       | 275             | 1                              |
| 6                                           | 5500            | 17                 | 7.8                     | 216             | 0                              |
| 7                                           | 5500            | 17                 | 6.3                     | 352             | 0                              |
| 8                                           | 5500            | 16                 | 6.9                     | 265             | 1                              |
| 9                                           | 5500            | 18                 | 6                       | 364             | 1                              |
| 10                                          | 5500            | 17                 | 6.8                     | 399             | 0                              |
| 11                                          | 5491.5          | 18                 | 7.5                     | 464             | 1                              |
| 12                                          | 5491.5          | 18                 | 8.7                     | 294             | 1                              |
| 13                                          | 5491.5          | 16                 | 8                       | 352             | 1                              |
| 14                                          | 5491.5          | 18                 | 8.5                     | 466             | 1                              |
| 15                                          | 5491.5          | 16                 | 8.1                     | 362             | 1                              |
| 16                                          | 5491.5          | 18                 | 9.3                     | 306             | 1                              |
| 17                                          | 5491.5          | 16                 | 9.7                     | 222             | 1                              |
| 18                                          | 5491.5          | 17                 | 7.7                     | 336             | 1                              |
| 19                                          | 5491.5          | 18                 | 9.6                     | 482             | 1                              |
| 20                                          | 5491.5          | 18                 | 9                       | 378             | 0                              |
| 21                                          | 5508.5          | 16                 | 7.1                     | 401             | 1                              |
| 22                                          | 5508.5          | 18                 | 10                      | 284             | 1                              |
| 23                                          | 5508.5          | 16                 | 8.3                     | 357             | 1                              |
| 24                                          | 5508.5          | 17                 | 7.2                     | 386             | 1                              |
| 25                                          | 5508.5          | 17                 | 7.7                     | 358             | 1                              |
| 26                                          | 5508.5          | 16                 | 6.3                     | 240             | 1                              |
| 27                                          | 5508.5          | 17                 | 8.6                     | 216             | 0                              |
| 28                                          | 5508.5          | 16                 | 7.7                     | 469             | 0                              |
| 29                                          | 5508.5          | 16                 | 7.7                     | 241             | 0                              |
| 30                                          | 5508.5          | 16                 | 8.2                     | 275             | 0                              |
| <b>Detection Percentage: 70 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-4 Radar Type 4 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5500            | 12                 | 16.8                    | 381             | 1                              |
| 2                                            | 5500            | 16                 | 18.5                    | 479             | 1                              |
| 3                                            | 5500            | 14                 | 12.9                    | 451             | 1                              |
| 4                                            | 5500            | 16                 | 15.5                    | 228             | 1                              |
| 5                                            | 5500            | 13                 | 19.1                    | 361             | 0                              |
| 6                                            | 5500            | 16                 | 12.5                    | 397             | 0                              |
| 7                                            | 5500            | 16                 | 12.3                    | 311             | 1                              |
| 8                                            | 5500            | 16                 | 14.7                    | 425             | 1                              |
| 9                                            | 5500            | 13                 | 12.7                    | 313             | 0                              |
| 10                                           | 5500            | 12                 | 14.7                    | 314             | 0                              |
| 11                                           | 5491.5          | 16                 | 13.4                    | 492             | 1                              |
| 12                                           | 5491.5          | 15                 | 12.3                    | 428             | 1                              |
| 13                                           | 5491.5          | 13                 | 16.5                    | 445             | 0                              |
| 14                                           | 5491.5          | 13                 | 11.2                    | 348             | 1                              |
| 15                                           | 5491.5          | 13                 | 15.9                    | 409             | 1                              |
| 16                                           | 5491.5          | 13                 | 17.9                    | 315             | 1                              |
| 17                                           | 5491.5          | 14                 | 11.1                    | 439             | 1                              |
| 18                                           | 5491.5          | 16                 | 16.8                    | 213             | 1                              |
| 19                                           | 5491.5          | 12                 | 13.7                    | 218             | 1                              |
| 20                                           | 5491.5          | 14                 | 15.6                    | 376             | 1                              |
| 21                                           | 5508.5          | 16                 | 17.6                    | 478             | 1                              |
| 22                                           | 5508.5          | 12                 | 13.8                    | 236             | 1                              |
| 23                                           | 5508.5          | 13                 | 19.5                    | 207             | 1                              |
| 24                                           | 5508.5          | 14                 | 15.8                    | 437             | 1                              |
| 25                                           | 5508.5          | 15                 | 18.6                    | 291             | 1                              |
| 26                                           | 5508.5          | 15                 | 14.2                    | 320             | 1                              |
| 27                                           | 5508.5          | 12                 | 18.4                    | 276             | 1                              |
| 28                                           | 5508.5          | 16                 | 16.7                    | 221             | 1                              |
| 29                                           | 5508.5          | 14                 | 13.8                    | 408             | 1                              |
| 30                                           | 5508.5          | 15                 | 13.4                    | 300             | 1                              |
| <b>Detection Percentage: 83.3% (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-5 Radar Type 5 Statistical Performance**

| <b>Trial #</b>                                 | <b>Fc (MHz)</b> | <b>Detection (1:yes; 0:no)</b> |
|------------------------------------------------|-----------------|--------------------------------|
| 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                                             | 5497.5          | 1                              |
| 12                                             | 5494.3          | 1                              |
| 13                                             | 5496.3          | 1                              |
| 14                                             | 5495.1          | 0                              |
| 15                                             | 5497.5          | 0                              |
| 16                                             | 5497.5          | 1                              |
| 17                                             | 5495.5          | 1                              |
| 18                                             | 5496.3          | 0                              |
| 19                                             | 5495.5          | 1                              |
| 20                                             | 5497.1          | 0                              |
| 21                                             | 5502.9          | 1                              |
| 22                                             | 5506.5          | 1                              |
| 23                                             | 5501.3          | 1                              |
| 24                                             | 5500.9          | 1                              |
| 25                                             | 5504.1          | 1                              |
| 26                                             | 5501.3          | 1                              |
| 27                                             | 5503.7          | 1                              |
| 28                                             | 5503.3          | 1                              |
| 29                                             | 5504.9          | 1                              |
| 30                                             | 5502.9          | 1                              |
| <b>Detection Percentage: 86.67 % (&gt;80%)</b> |                 |                                |

## Bin5 Statistics 1

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 8           | 60.1             | -                      | -                      | 0.56921        | 1                       |
| 1       | 1     | 8           | 85.8             | -                      | -                      | 1.350763       |                         |
| 2       | 2     | 8           | 78.4             | 1492                   | -                      | 2.076343       |                         |
| 3       | 2     | 8           | 53.1             | 1173                   | -                      | 3.300253       |                         |
| 4       | 2     | 8           | 95.8             | 1720                   | -                      | 3.700787       |                         |
| 5       | 2     | 8           | 88.8             | 1893                   | -                      | 5.365426       |                         |
| 6       | 3     | 8           | 87.3             | 1374                   | 1944                   | 5.746969       |                         |
| 7       | 3     | 8           | 61.7             | 1587                   | 1020                   | 6.642976       |                         |
| 8       | 2     | 8           | 52.9             | 1107                   | -                      | 7.884581       |                         |
| 9       | 2     | 8           | 66.6             | 1817                   | -                      | 8.688096       |                         |
| 10      | 2     | 8           | 98.7             | 1180                   | -                      | 9.428982       |                         |
| 11      | 2     | 8           | 97.8             | 1358                   | -                      | 10.371097      |                         |
| 12      | 1     | 8           | 88.3             | -                      | -                      | 11.463907      |                         |

## 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     | 6           | 66.9             | 1600                   | 1451                   | 0.658067       | 1                       |
| 1       | 3     | 6           | 85.5             | 1323                   | 1131                   | 2.056028       |                         |
| 2       | 1     | 6           | 87.7             | -                      | -                      | 2.897752       |                         |
| 3       | 2     | 6           | 99.2             | 1059                   | -                      | 3.425063       |                         |
| 4       | 2     | 6           | 91.8             | 1230                   | -                      | 5.42066        |                         |
| 5       | 1     | 6           | 52.1             | -                      | -                      | 6.378644       |                         |
| 6       | 2     | 6           | 81.3             | 1292                   | -                      | 7.069503       |                         |
| 7       | 2     | 6           | 94.8             | 1643                   | -                      | 7.688493       |                         |
| 8       | 3     | 6           | 60.3             | 1041                   | 1958                   | 8.768798       |                         |
| 9       | 2     | 6           | 89.4             | 1796                   | -                      | 9.938603       |                         |
| 10      | 2     | 6           | 85.7             | 1177                   | -                      | 10.973371      |                         |

## 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     | 5           | 59.4             | 1696                   | -                      | 0.690461       | 1                       |
| 1       | 2     | 5           | 93.8             | 1831                   | -                      | 1.753732       |                         |
| 2       | 2     | 5           | 50.9             | 1534                   | -                      | 3.159676       |                         |
| 3       | 1     | 5           | 66.5             | -                      | -                      | 3.905476       |                         |
| 4       | 2     | 5           | 85.8             | 1316                   | -                      | 5.612156       |                         |
| 5       | 2     | 5           | 76.2             | 1047                   | -                      | 6.609774       |                         |
| 6       | 2     | 5           | 56.6             | 1989                   | -                      | 7.864295       |                         |
| 7       | 3     | 5           | 73.4             | 1751                   | 1762                   | 9.523927       |                         |
| 8       | 1     | 5           | 56.6             | -                      | -                      | 10.533545      |                         |
| 9       | 3     | 5           | 78.4             | 1881                   | 1784                   | 11.750813      |                         |

## 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     | 6           | 92               | 1132                   | -                      | 0.603641       | 1                       |
| 1       | 2     | 6           | 59.1             | 1570                   | -                      | 2.302424       |                         |
| 2       | 1     | 6           | 91.9             | -                      | -                      | 3.833675       |                         |
| 3       | 2     | 6           | 84.1             | 1065                   | -                      | 4.020479       |                         |
| 4       | 1     | 6           | 52.8             | -                      | -                      | 6.022261       |                         |
| 5       | 3     | 6           | 85.6             | 1278                   | 1276                   | 7.791982       |                         |
| 6       | 3     | 6           | 97.2             | 1822                   | 1882                   | 9.138678       |                         |
| 7       | 1     | 6           | 98.7             | -                      | -                      | 10.26838       |                         |
| 8       | 1     | 6           | 81.5             | -                      | -                      | 11.426163      |                         |

## 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           | 59.4             | 1781                   | -                      | 0.946854       | 1                       |
| 1       | 2     | 6           | 59.9             | 1458                   | -                      | 1.336414       |                         |
| 2       | 2     | 6           | 75.8             | 1839                   | -                      | 3.308447       |                         |
| 3       | 2     | 6           | 74.8             | 1261                   | -                      | 4.575152       |                         |
| 4       | 2     | 6           | 68.7             | 1812                   | -                      | 6.231788       |                         |
| 5       | 2     | 6           | 96.5             | 1883                   | -                      | 7.239153       |                         |
| 6       | 1     | 6           | 63.1             | -                      | -                      | 8.360383       |                         |
| 7       | 2     | 6           | 85.4             | 1789                   | -                      | 9.867072       |                         |
| 8       | 3     | 6           | 56               | 1280                   | 1849                   | 11.188263      |                         |

## 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     | 5           | 98.2             | 1499                   | -                      | 1.010642       | 1                       |
| 1       | 2     | 5           | 53.3             | 1364                   | -                      | 1.461182       |                         |
| 2       | 1     | 5           | 75               | -                      | -                      | 2.986558       |                         |
| 3       | 3     | 5           | 73.5             | 1008                   | 1129                   | 4.012354       |                         |
| 4       | 2     | 5           | 54.2             | 1609                   | -                      | 4.738298       |                         |
| 5       | 1     | 5           | 65.3             | -                      | -                      | 5.637786       |                         |
| 6       | 1     | 5           | 74.5             | -                      | -                      | 7.527106       |                         |
| 7       | 3     | 5           | 72               | 1607                   | 1054                   | 7.663608       |                         |
| 8       | 3     | 5           | 63.1             | 1000                   | 1561                   | 9.618664       |                         |
| 9       | 2     | 5           | 61.1             | 1115                   | -                      | 10.77873       |                         |
| 10      | 2     | 5           | 87.7             | 1086                   | -                      | 11.692593      |                         |

## Bin5 Statistics 7

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 13          | 65.7             | 1259                   | -                      | 0.406668       | 1                       |
| 1       | 2     | 13          | 99.3             | 1410                   | -                      | 1.258361       |                         |
| 2       | 3     | 13          | 61.8             | 1205                   | 1998                   | 1.546458       |                         |
| 3       | 2     | 13          | 82.6             | 1358                   | -                      | 2.662702       |                         |
| 4       | 2     | 13          | 81.2             | 1066                   | -                      | 3.574431       |                         |
| 5       | 1     | 13          | 91.7             | -                      | -                      | 4.362246       |                         |
| 6       | 3     | 13          | 70.4             | 1789                   | 1708                   | 4.799455       |                         |
| 7       | 2     | 13          | 59.7             | 1948                   | -                      | 5.856803       |                         |
| 8       | 1     | 13          | 64.6             | -                      | -                      | 6.464392       |                         |
| 9       | 2     | 13          | 56.5             | 1669                   | -                      | 7.000105       |                         |
| 10      | 3     | 13          | 93.2             | 1102                   | 1492                   | 7.502246       |                         |
| 11      | 3     | 13          | 85.4             | 1573                   | 1378                   | 8.904145       |                         |
| 12      | 2     | 13          | 97.6             | 1723                   | -                      | 9.258533       |                         |
| 13      | 2     | 13          | 51.8             | 1135                   | -                      | 10.204934      |                         |
| 14      | 1     | 13          | 81.6             | -                      | -                      | 11.063792      |                         |
| 15      | 3     | 13          | 50.7             | 1826                   | 1844                   | 11.397759      |                         |

## Bin5 Statistics 8

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 6           | 87.1             | 1012                   | -                      | 0.011255       | 1                       |
| 1       | 2     | 6           | 51.7             | 1949                   | -                      | 1.568894       |                         |
| 2       | 3     | 6           | 84.6             | 1033                   | 1150                   | 2.102889       |                         |
| 3       | 2     | 6           | 50.6             | 1002                   | -                      | 2.783629       |                         |
| 4       | 2     | 6           | 71.8             | 1124                   | -                      | 3.226776       |                         |
| 5       | 2     | 6           | 89.2             | 1424                   | -                      | 4.568543       |                         |
| 6       | 2     | 6           | 65               | 1784                   | -                      | 5.220319       |                         |
| 7       | 2     | 6           | 73.8             | 1675                   | -                      | 5.609646       |                         |
| 8       | 3     | 6           | 63               | 1743                   | 1044                   | 6.583086       |                         |
| 9       | 2     | 6           | 69.7             | 1745                   | -                      | 7.617324       |                         |
| 10      | 1     | 6           | 77.7             | -                      | -                      | 8.132358       |                         |
| 11      | 2     | 6           | 78.7             | 1245                   | -                      | 9.431247       |                         |
| 12      | 2     | 6           | 90.1             | 1313                   | -                      | 10.290219      |                         |
| 13      | 3     | 6           | 90.4             | 1112                   | 1379                   | 10.891481      |                         |
| 14      | 2     | 6           | 75.7             | 1015                   | -                      | 11.585838      |                         |

## 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          | 68.3             | -                      | -                      | 0.227814       | 1                       |
| 1       | 2     | 12          | 54.1             | 1585                   | -                      | 1.301871       |                         |
| 2       | 2     | 12          | 52               | 1952                   | -                      | 3.078006       |                         |
| 3       | 2     | 12          | 86.7             | 1698                   | -                      | 4.792751       |                         |
| 4       | 1     | 12          | 86.5             | -                      | -                      | 4.947315       |                         |
| 5       | 3     | 12          | 92.9             | 1177                   | 1284                   | 6.313812       |                         |
| 6       | 2     | 12          | 75.9             | 1879                   | -                      | 7.701959       |                         |
| 7       | 2     | 12          | 97.5             | 1639                   | -                      | 8.939448       |                         |
| 8       | 2     | 12          | 53.2             | 1904                   | -                      | 10.747726      |                         |
| 9       | 1     | 12          | 91.6             | -                      | -                      | 11.913836      |                         |

## 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     | 11          | 66.8             | -                      | -                      | 0.219629       | 1                       |
| 1       | 3     | 11          | 57.1             | 1612                   | 1244                   | 1.104862       |                         |
| 2       | 1     | 11          | 65.7             | -                      | -                      | 1.842052       |                         |
| 3       | 2     | 11          | 80               | 1191                   | -                      | 1.97861        |                         |
| 4       | 2     | 11          | 81.4             | 1126                   | -                      | 2.995271       |                         |
| 5       | 2     | 11          | 94.5             | 1605                   | -                      | 3.242073       |                         |
| 6       | 2     | 11          | 82               | 1639                   | -                      | 3.801211       |                         |
| 7       | 1     | 11          | 74.2             | -                      | -                      | 4.80599        |                         |
| 8       | 2     | 11          | 67               | 1783                   | -                      | 5.107324       |                         |
| 9       | 1     | 11          | 65.8             | -                      | -                      | 5.886538       |                         |
| 10      | 2     | 11          | 96               | 1173                   | -                      | 6.80798        |                         |
| 11      | 3     | 11          | 51.2             | 1095                   | 1090                   | 7.057833       |                         |
| 12      | 3     | 11          | 65.3             | 1356                   | 1197                   | 7.812574       |                         |
| 13      | 2     | 11          | 84.2             | 1109                   | -                      | 8.548607       |                         |
| 14      | 2     | 11          | 66               | 1062                   | -                      | 8.988594       |                         |
| 15      | 1     | 11          | 81.4             | -                      | -                      | 9.483197       |                         |
| 16      | 2     | 11          | 83.3             | 1888                   | -                      | 10.222923      |                         |
| 17      | 2     | 11          | 81.4             | 1348                   | -                      | 11.176022      |                         |
| 18      | 3     | 11          | 55.5             | 1088                   | 1450                   | 11.421312      |                         |

## Bin5 Statistics 11

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 15          | 94.1             | 1641                   | 1425                   | 0.177925       | 1                       |
| 1       | 2     | 15          | 55.3             | 1970                   | -                      | 1.309241       |                         |
| 2       | 2     | 15          | 77.1             | 1435                   | -                      | 1.910591       |                         |
| 3       | 2     | 15          | 66               | 1911                   | -                      | 2.848776       |                         |
| 4       | 3     | 15          | 63.9             | 1052                   | 1959                   | 3.584143       |                         |
| 5       | 2     | 15          | 83.8             | 1231                   | -                      | 4.667459       |                         |
| 6       | 3     | 15          | 50.3             | 1299                   | 1525                   | 5.48196        |                         |
| 7       | 3     | 15          | 93.2             | 1246                   | 1899                   | 6.086825       |                         |
| 8       | 1     | 15          | 75.7             | -                      | -                      | 6.459723       |                         |
| 9       | 1     | 15          | 93               | -                      | -                      | 7.932219       |                         |
| 10      | 2     | 15          | 93.6             | 1962                   | -                      | 8.486164       |                         |
| 11      | 3     | 15          | 51.1             | 1817                   | 1286                   | 9.555058       |                         |
| 12      | 2     | 15          | 80.9             | 1522                   | -                      | 10.027501      |                         |
| 13      | 2     | 15          | 63.8             | 1653                   | -                      | 10.722855      |                         |
| 14      | 3     | 15          | 70.8             | 1341                   | 1931                   | 11.775619      |                         |

## Bin5 Statistics 12

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 7           | 88.6             | -                      | -                      | 0.314521       | 1                       |
| 1       | 2     | 7           | 94.6             | 1008                   | -                      | 1.243996       |                         |
| 2       | 1     | 7           | 50.1             | -                      | -                      | 1.475246       |                         |
| 3       | 2     | 7           | 63.7             | 1431                   | -                      | 2.192999       |                         |
| 4       | 2     | 7           | 94.1             | 1099                   | -                      | 3.251059       |                         |
| 5       | 2     | 7           | 51.2             | 1912                   | -                      | 3.97171        |                         |
| 6       | 1     | 7           | 74.9             | -                      | -                      | 4.245674       |                         |
| 7       | 3     | 7           | 66.7             | 1017                   | 1782                   | 5.196853       |                         |
| 8       | 2     | 7           | 86               | 1988                   | -                      | 5.692734       |                         |
| 9       | 2     | 7           | 75.5             | 1097                   | -                      | 6.22971        |                         |
| 10      | 2     | 7           | 90               | 1368                   | -                      | 7.286242       |                         |
| 11      | 3     | 7           | 50.8             | 1869                   | 1928                   | 7.856196       |                         |
| 12      | 1     | 7           | 76.8             | -                      | -                      | 8.024055       |                         |
| 13      | 2     | 7           | 74.8             | 1130                   | -                      | 8.899515       |                         |
| 14      | 2     | 7           | 62.5             | 1420                   | -                      | 9.725962       |                         |
| 15      | 3     | 7           | 82.6             | 1345                   | 1323                   | 10.22108       |                         |
| 16      | 2     | 7           | 84.6             | 1504                   | -                      | 10.709353      |                         |
| 17      | 1     | 7           | 70.3             | -                      | -                      | 11.55053       |                         |

## 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     | 12          | 76.7             | 1065                   | 1628                   | 0.623444       | 1                       |
| 1       | 1     | 12          | 60.3             | -                      | -                      | 1.230146       |                         |
| 2       | 2     | 12          | 53.9             | 1185                   | -                      | 2.621781       |                         |
| 3       | 3     | 12          | 97.1             | 1611                   | 1976                   | 3.405522       |                         |
| 4       | 1     | 12          | 92               | -                      | -                      | 4.224281       |                         |
| 5       | 1     | 12          | 58.8             | -                      | -                      | 5.738535       |                         |
| 6       | 2     | 12          | 77.3             | 1576                   | -                      | 6.559456       |                         |
| 7       | 1     | 12          | 89.3             | -                      | -                      | 7.676285       |                         |
| 8       | 3     | 12          | 81.5             | 1576                   | 1040                   | 8.21909        |                         |
| 9       | 2     | 12          | 98               | 1615                   | -                      | 9.863663       |                         |
| 10      | 2     | 12          | 85.3             | 1337                   | -                      | 10.746276      |                         |
| 11      | 2     | 12          | 56.9             | 1893                   | -                      | 11.319795      |                         |

## 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     | 9           | 63.4             | 1119                   | 1708                   | 0.463295       | 0                       |
| 1       | 2     | 9           | 80.4             | 1774                   | -                      | 1.851377       |                         |
| 2       | 1     | 9           | 68.9             | -                      | -                      | 2.670459       |                         |
| 3       | 3     | 9           | 87               | 1058                   | 1040                   | 4.608806       |                         |
| 4       | 1     | 9           | 51.4             | -                      | -                      | 6.116217       |                         |
| 5       | 2     | 9           | 78.2             | 1403                   | -                      | 7.076559       |                         |
| 6       | 3     | 9           | 82.9             | 1539                   | 1813                   | 8.994642       |                         |
| 7       | 2     | 9           | 66.9             | 1325                   | -                      | 10.592504      |                         |
| 8       | 3     | 9           | 96.2             | 1741                   | 1018                   | 11.185752      |                         |

## 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          | 86.4             | 1737                   | -                      | 0.889327       | 0                       |
| 1       | 1     | 15          | 87.6             | -                      | -                      | 2.315105       |                         |
| 2       | 2     | 15          | 62.4             | 1540                   | -                      | 3.256418       |                         |
| 3       | 1     | 15          | 67.6             | -                      | -                      | 5.226646       |                         |
| 4       | 2     | 15          | 51.7             | 1813                   | -                      | 5.623304       |                         |
| 5       | 2     | 15          | 67.4             | 1678                   | -                      | 7.570718       |                         |
| 6       | 3     | 15          | 72.3             | 1969                   | 1936                   | 8.317915       |                         |
| 7       | 2     | 15          | 55.8             | 1378                   | -                      | 9.818225       |                         |
| 8       | 3     | 15          | 80               | 1814                   | 1476                   | 11.303334      |                         |

## 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     | 15          | 85.7             | 1042                   | -                      | 0.330579       | 1                       |
| 1       | 2     | 15          | 91.5             | 1397                   | -                      | 2.099311       |                         |
| 2       | 2     | 15          | 62               | 1744                   | -                      | 4.226211       |                         |
| 3       | 1     | 15          | 97.5             | -                      | -                      | 5.084198       |                         |
| 4       | 3     | 15          | 54.8             | 1386                   | 1951                   | 7.15446        |                         |
| 5       | 3     | 15          | 54.2             | 1562                   | 1195                   | 7.719625       |                         |
| 6       | 1     | 15          | 56.4             | -                      | -                      | 9.170803       |                         |
| 7       | 3     | 15          | 99.6             | 1152                   | 1620                   | 10.541484      |                         |

## 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     | 10          | 52.4             | 1930                   | -                      | 0.105668       | 1                       |
| 1       | 1     | 10          | 54.4             | -                      | -                      | 1.451492       |                         |
| 2       | 1     | 10          | 92.5             | -                      | -                      | 2.201952       |                         |
| 3       | 2     | 10          | 53.6             | 1743                   | -                      | 3.103692       |                         |
| 4       | 2     | 10          | 80.6             | 1254                   | -                      | 4.387439       |                         |
| 5       | 3     | 10          | 68.1             | 1072                   | 1002                   | 5.249305       |                         |
| 6       | 3     | 10          | 72.2             | 1769                   | 1114                   | 6.07755        |                         |
| 7       | 3     | 10          | 91.5             | 1541                   | 1361                   | 6.663415       |                         |
| 8       | 2     | 10          | 53.5             | 1150                   | -                      | 8.285016       |                         |
| 9       | 2     | 10          | 95.4             | 1455                   | -                      | 8.968552       |                         |
| 10      | 2     | 10          | 51.3             | 1229                   | -                      | 9.370492       |                         |
| 11      | 2     | 10          | 70.9             | 1800                   | -                      | 10.272546      |                         |
| 12      | 2     | 10          | 65.8             | 1827                   | -                      | 11.488589      |                         |

## 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     | 12          | 86.8             | 1707                   | -                      | 0.649547       | 0                       |
| 1       | 1     | 12          | 84               | -                      | -                      | 1.166918       |                         |
| 2       | 3     | 12          | 55.2             | 1969                   | 1555                   | 2.344455       |                         |
| 3       | 1     | 12          | 71.6             | -                      | -                      | 2.555979       |                         |
| 4       | 1     | 12          | 67.9             | -                      | -                      | 3.937913       |                         |
| 5       | 2     | 12          | 53.5             | 1933                   | -                      | 4.065247       |                         |
| 6       | 3     | 12          | 75.2             | 1748                   | 1844                   | 5.156357       |                         |
| 7       | 2     | 12          | 75.2             | 1451                   | -                      | 6.38016        |                         |
| 8       | 2     | 12          | 66.4             | 1078                   | -                      | 6.811136       |                         |
| 9       | 3     | 12          | 79.9             | 1493                   | 1791                   | 7.856913       |                         |
| 10      | 2     | 12          | 91.6             | 1957                   | -                      | 8.56256        |                         |
| 11      | 2     | 12          | 58.9             | 1308                   | -                      | 8.939738       |                         |
| 12      | 2     | 12          | 57.8             | 1173                   | -                      | 10.049758      |                         |
| 13      | 2     | 12          | 98.8             | 1083                   | -                      | 10.433734      |                         |
| 14      | 2     | 12          | 91.2             | 1441                   | -                      | 11.549641      |                         |

## 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     | 10          | 70.9             | 1228                   | -                      | 0.548989       | 1                       |
| 1       | 3     | 10          | 73.6             | 1041                   | 1510                   | 1.891486       |                         |
| 2       | 2     | 10          | 93.4             | 1208                   | -                      | 2.923387       |                         |
| 3       | 1     | 10          | 50.2             | -                      | -                      | 3.49978        |                         |
| 4       | 2     | 10          | 92               | 1146                   | -                      | 4.211834       |                         |
| 5       | 3     | 10          | 99.9             | 1729                   | 1580                   | 5.081618       |                         |
| 6       | 2     | 10          | 51.9             | 1207                   | -                      | 6.079383       |                         |
| 7       | 2     | 10          | 57.3             | 1543                   | -                      | 7.614304       |                         |
| 8       | 2     | 10          | 98.6             | 1499                   | -                      | 8.709431       |                         |
| 9       | 3     | 10          | 66.2             | 1812                   | 1180                   | 9.9843         |                         |
| 10      | 2     | 10          | 90.4             | 1575                   | -                      | 10.024074      |                         |
| 11      | 3     | 10          | 62.8             | 1775                   | 1294                   | 11.02191       |                         |

## 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     | 14          | 62.3             | 1680                   | 1432                   | 0.181171       | 0                       |
| 1       | 1     | 14          | 75.5             | -                      | -                      | 1.404357       |                         |
| 2       | 1     | 14          | 82.9             | -                      | -                      | 1.636693       |                         |
| 3       | 1     | 14          | 91.6             | -                      | -                      | 2.300604       |                         |
| 4       | 1     | 14          | 97.2             | -                      | -                      | 3.423866       |                         |
| 5       | 1     | 14          | 97.9             | -                      | -                      | 3.725078       |                         |
| 6       | 3     | 14          | 95.6             | 1368                   | 1742                   | 4.71213        |                         |
| 7       | 1     | 14          | 97.3             | -                      | -                      | 5.447531       |                         |
| 8       | 2     | 14          | 75.9             | 1883                   | -                      | 5.873582       |                         |
| 9       | 2     | 14          | 60.1             | 1304                   | -                      | 6.854213       |                         |
| 10      | 2     | 14          | 64.9             | 1168                   | -                      | 7.229272       |                         |
| 11      | 3     | 14          | 56.2             | 1295                   | 1527                   | 8.193509       |                         |
| 12      | 1     | 14          | 93.9             | -                      | -                      | 8.714542       |                         |
| 13      | 1     | 14          | 76.9             | -                      | -                      | 9.861997       |                         |
| 14      | 2     | 14          | 61.4             | 1486                   | -                      | 9.913678       |                         |
| 15      | 2     | 14          | 93.2             | 1620                   | -                      | 11.121351      |                         |
| 16      | 2     | 14          | 96.8             | 1481                   | -                      | 11.505459      |                         |

## 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     | 14          | 73.6             | 1670                   | 1959                   | 0.291741       | 1                       |
| 1       | 1     | 14          | 90.5             | -                      | -                      | 1.628026       |                         |
| 2       | 1     | 14          | 53.1             | -                      | -                      | 2.369557       |                         |
| 3       | 2     | 14          | 51.2             | 1776                   | -                      | 3.771744       |                         |
| 4       | 1     | 14          | 90.4             | -                      | -                      | 4.931371       |                         |
| 5       | 3     | 14          | 69.8             | 1849                   | 1904                   | 5.571438       |                         |
| 6       | 2     | 14          | 76.6             | 1266                   | -                      | 6.712708       |                         |
| 7       | 2     | 14          | 60.3             | 1855                   | -                      | 7.095919       |                         |
| 8       | 2     | 14          | 67.6             | 1419                   | -                      | 8.893619       |                         |
| 9       | 3     | 14          | 87.3             | 1034                   | 1221                   | 9.106823       |                         |
| 10      | 2     | 14          | 66.4             | 1002                   | -                      | 10.110859      |                         |
| 11      | 2     | 14          | 56.3             | 1125                   | -                      | 11.65589       |                         |

## 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     | 5           | 71.9             | -                      | -                      | 0.007462       | 1                       |
| 1       | 2     | 5           | 63.1             | 1809                   | -                      | 1.911958       |                         |
| 2       | 2     | 5           | 57.2             | 1152                   | -                      | 2.809066       |                         |
| 3       | 1     | 5           | 67.9             | -                      | -                      | 4.032918       |                         |
| 4       | 2     | 5           | 97.6             | 1479                   | -                      | 4.814253       |                         |
| 5       | 2     | 5           | 68.7             | 1837                   | -                      | 6.243229       |                         |
| 6       | 2     | 5           | 84.1             | 1931                   | -                      | 6.787617       |                         |
| 7       | 1     | 5           | 66.7             | -                      | -                      | 8.657725       |                         |
| 8       | 2     | 5           | 55.2             | 1558                   | -                      | 9.711182       |                         |
| 9       | 2     | 5           | 77.3             | 1732                   | -                      | 10.458488      |                         |
| 10      | 2     | 5           | 52.5             | 1514                   | -                      | 10.988653      |                         |

## 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     | 18          | 87.1             | 1183                   | -                      | 0.681153       | 1                       |
| 1       | 3     | 18          | 67.5             | 1248                   | 1296                   | 1.675799       |                         |
| 2       | 3     | 18          | 83.4             | 1107                   | 1359                   | 2.809313       |                         |
| 3       | 3     | 18          | 99               | 1987                   | 1354                   | 4.034121       |                         |
| 4       | 3     | 18          | 57.4             | 1670                   | 1965                   | 5.26308        |                         |
| 5       | 1     | 18          | 77.5             | -                      | -                      | 6.212558       |                         |
| 6       | 2     | 18          | 99.5             | 1916                   | -                      | 7.50091        |                         |
| 7       | 3     | 18          | 54.5             | 1944                   | 1503                   | 8.661324       |                         |
| 8       | 2     | 18          | 85.1             | 1625                   | -                      | 10.131979      |                         |
| 9       | 2     | 18          | 78.2             | 1578                   | -                      | 11.329303      |                         |

## 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     | 19          | 71.6             | 1200                   | -                      | 0.511683       | 1                       |
| 1       | 1     | 19          | 68.8             | -                      | -                      | 1.29816        |                         |
| 2       | 2     | 19          | 70.8             | 1681                   | -                      | 1.922241       |                         |
| 3       | 1     | 19          | 53.1             | -                      | -                      | 2.297225       |                         |
| 4       | 2     | 19          | 52.9             | 1833                   | -                      | 3.310043       |                         |
| 5       | 1     | 19          | 91               | -                      | -                      | 3.533198       |                         |
| 6       | 1     | 19          | 77.9             | -                      | -                      | 4.523488       |                         |
| 7       | 2     | 19          | 57.7             | 1183                   | -                      | 5.266998       |                         |
| 8       | 2     | 19          | 64.7             | 1878                   | -                      | 5.990016       |                         |
| 9       | 3     | 19          | 88.5             | 1855                   | 1467                   | 6.157542       |                         |
| 10      | 1     | 19          | 65.3             | -                      | -                      | 7.257448       |                         |
| 11      | 2     | 19          | 70.8             | 1397                   | -                      | 7.941304       |                         |
| 12      | 1     | 19          | 77.2             | -                      | -                      | 8.257259       |                         |
| 13      | 2     | 19          | 69.9             | 1935                   | -                      | 9.171045       |                         |
| 14      | 3     | 19          | 66.2             | 1357                   | 1239                   | 9.339442       |                         |
| 15      | 2     | 19          | 85.7             | 1153                   | -                      | 10.149225      |                         |
| 16      | 3     | 19          | 61.7             | 1592                   | 1314                   | 10.705635      |                         |
| 17      | 2     | 19          | 60               | 1181                   | -                      | 11.606562      |                         |

## 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     | 11          | 51.9             | 1644                   | -                      | 0.151276       | 1                       |
| 1       | 1     | 11          | 71.1             | -                      | -                      | 0.872472       |                         |
| 2       | 3     | 11          | 97.5             | 1437                   | 1545                   | 1.718877       |                         |
| 3       | 1     | 11          | 75.9             | -                      | -                      | 3.147512       |                         |
| 4       | 2     | 11          | 94.9             | 1084                   | -                      | 3.669426       |                         |
| 5       | 2     | 11          | 99.1             | 1505                   | -                      | 5.013518       |                         |
| 6       | 1     | 11          | 92               | -                      | -                      | 5.473317       |                         |
| 7       | 2     | 11          | 52.2             | 1431                   | -                      | 6.132057       |                         |
| 8       | 2     | 11          | 78.9             | 1145                   | -                      | 7.401729       |                         |
| 9       | 2     | 11          | 80.3             | 1407                   | -                      | 7.872286       |                         |
| 10      | 2     | 11          | 62.8             | 1066                   | -                      | 9.312889       |                         |
| 11      | 2     | 11          | 78.6             | 1935                   | -                      | 9.822727       |                         |
| 12      | 1     | 11          | 84.8             | -                      | -                      | 10.671901      |                         |
| 13      | 3     | 11          | 62.2             | 1004                   | 1476                   | 11.928418      |                         |

## 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       | 3     | 18          | 65.8             | 1329                   | 1128                   | 0.475401       | 1                       |
| 1       | 3     | 18          | 55.9             | 1766                   | 1611                   | 1.119504       |                         |
| 2       | 3     | 18          | 71.1             | 1086                   | 1370                   | 1.819929       |                         |
| 3       | 2     | 18          | 70               | 1019                   | -                      | 2.540885       |                         |
| 4       | 1     | 18          | 58.5             | -                      | -                      | 2.831116       |                         |
| 5       | 1     | 18          | 84.1             | -                      | -                      | 3.466016       |                         |
| 6       | 3     | 18          | 60.5             | 1201                   | 1412                   | 4.545462       |                         |
| 7       | 1     | 18          | 69.8             | -                      | -                      | 5.289232       |                         |
| 8       | 1     | 18          | 81               | -                      | -                      | 5.788893       |                         |
| 9       | 3     | 18          | 84.6             | 1286                   | 1868                   | 6.003421       |                         |
| 10      | 3     | 18          | 63.3             | 1855                   | 1287                   | 7.037391       |                         |
| 11      | 2     | 18          | 69.3             | 1334                   | -                      | 7.520679       |                         |
| 12      | 2     | 18          | 98.4             | 1521                   | -                      | 8.223994       |                         |
| 13      | 2     | 18          | 80.7             | 1785                   | -                      | 8.83471        |                         |
| 14      | 1     | 18          | 91.9             | -                      | -                      | 9.66277        |                         |
| 15      | 2     | 18          | 50.1             | 1397                   | -                      | 10.009943      |                         |
| 16      | 1     | 18          | 81.4             | -                      | -                      | 10.76813       |                         |
| 17      | 2     | 18          | 60.3             | 1395                   | -                      | 11.830024      |                         |

## Bin5 Statistics 27

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 12          | 94.5             | 1750                   | -                      | 0.629532       | 1                       |
| 1       | 2     | 12          | 98.9             | 1980                   | -                      | 1.813527       |                         |
| 2       | 3     | 12          | 65.6             | 1024                   | 1848                   | 3.400619       |                         |
| 3       | 2     | 12          | 67.6             | 1437                   | -                      | 4.206502       |                         |
| 4       | 3     | 12          | 88.1             | 1055                   | 1608                   | 5.908506       |                         |
| 5       | 3     | 12          | 59.1             | 1117                   | 1181                   | 6.884367       |                         |
| 6       | 2     | 12          | 97.9             | 1268                   | -                      | 7.503643       |                         |
| 7       | 2     | 12          | 80.3             | 1843                   | -                      | 8.987704       |                         |
| 8       | 3     | 12          | 85.3             | 1511                   | 1866                   | 9.623347       |                         |
| 9       | 2     | 12          | 54.9             | 1968                   | -                      | 11.442324      |                         |

## Bin5 Statistics 28

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 13          | 78               | -                      | -                      | 0.51956        | 1                       |
| 1       | 2     | 13          | 59.9             | 1034                   | -                      | 1.423416       |                         |
| 2       | 1     | 13          | 80.7             | -                      | -                      | 1.653615       |                         |
| 3       | 3     | 13          | 68.8             | 1205                   | 1766                   | 2.841917       |                         |
| 4       | 2     | 13          | 72               | 1412                   | -                      | 3.256463       |                         |
| 5       | 2     | 13          | 78.6             | 1555                   | -                      | 4.370338       |                         |
| 6       | 2     | 13          | 75.6             | 1925                   | -                      | 5.554162       |                         |
| 7       | 1     | 13          | 84.5             | -                      | -                      | 6.311014       |                         |
| 8       | 1     | 13          | 62.3             | -                      | -                      | 6.418497       |                         |
| 9       | 2     | 13          | 60.3             | 1833                   | -                      | 7.298547       |                         |
| 10      | 3     | 13          | 73.4             | 1687                   | 1267                   | 8.082252       |                         |
| 11      | 1     | 13          | 75.9             | -                      | -                      | 9.384662       |                         |
| 12      | 2     | 13          | 89               | 1492                   | -                      | 9.671677       |                         |
| 13      | 3     | 13          | 88.9             | 1353                   | 1405                   | 10.630726      |                         |
| 14      | 2     | 13          | 58.5             | 1505                   | -                      | 11.954863      |                         |

## Bin5 Statistics 29

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 9           | 51.8             | 1662                   | -                      | 0.15025        | 1                       |
| 1       | 3     | 9           | 70.5             | 1097                   | 1770                   | 1.243508       |                         |
| 2       | 3     | 9           | 65.6             | 1669                   | 1062                   | 1.820857       |                         |
| 3       | 2     | 9           | 95.3             | 1071                   | -                      | 2.693309       |                         |
| 4       | 2     | 9           | 65.6             | 1571                   | -                      | 3.135665       |                         |
| 5       | 3     | 9           | 71.3             | 1259                   | 1829                   | 3.710836       |                         |
| 6       | 2     | 9           | 81.5             | 1838                   | -                      | 4.828449       |                         |
| 7       | 1     | 9           | 81.4             | -                      | -                      | 5.55109        |                         |
| 8       | 3     | 9           | 70.3             | 1078                   | 1509                   | 6.04416        |                         |
| 9       | 2     | 9           | 64.9             | 1193                   | -                      | 6.361155       |                         |
| 10      | 2     | 9           | 52.5             | 1518                   | -                      | 7.612598       |                         |
| 11      | 3     | 9           | 51.2             | 1900                   | 1214                   | 8.026468       |                         |
| 12      | 2     | 9           | 67.7             | 1955                   | -                      | 9.121082       |                         |
| 13      | 3     | 9           | 55.4             | 1181                   | 1817                   | 9.286983       |                         |
| 14      | 2     | 9           | 62.4             | 1596                   | -                      | 10.29768       |                         |
| 15      | 1     | 9           | 91.7             | -                      | -                      | 10.68962       |                         |
| 16      | 1     | 9           | 73.7             | -                      | -                      | 11.4943        |                         |

## 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     | 14          | 78.1             | 1659                   | -                      | 0.670567       | 1                       |
| 1       | 1     | 14          | 91.5             | -                      | -                      | 1.15744        |                         |
| 2       | 2     | 14          | 55.2             | 1553                   | -                      | 1.938646       |                         |
| 3       | 1     | 14          | 64.2             | -                      | -                      | 2.164058       |                         |
| 4       | 3     | 14          | 64.5             | 1099                   | 1573                   | 3.076167       |                         |
| 5       | 2     | 14          | 91               | 1931                   | -                      | 3.562664       |                         |
| 6       | 2     | 14          | 54.1             | 1745                   | -                      | 4.921167       |                         |
| 7       | 2     | 14          | 65.8             | 1603                   | -                      | 4.949217       |                         |
| 8       | 1     | 14          | 74.3             | -                      | -                      | 6.157934       |                         |
| 9       | 2     | 14          | 94.6             | 1237                   | -                      | 6.780695       |                         |
| 10      | 3     | 14          | 65               | 1838                   | 1283                   | 7.144708       |                         |
| 11      | 1     | 14          | 80.9             | -                      | -                      | 7.99317        |                         |
| 12      | 1     | 14          | 95.1             | -                      | -                      | 8.67742        |                         |
| 13      | 1     | 14          | 98               | -                      | -                      | 9.624741       |                         |
| 14      | 1     | 14          | 99.4             | -                      | -                      | 10.212009      |                         |
| 15      | 3     | 14          | 87.5             | 1369                   | 1843                   | 10.867849      |                         |
| 16      | 1     | 14          | 70.1             | -                      | -                      | 11.700398      |                         |

**Table-6 Radar Type 6 Statistical Performance**

| <b>Trial #</b> | <b>Fc (MHz)</b> | <b>Pulse /Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> | <b>Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|-----------------|---------------------|-------------------------|-----------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 5500            | 9                   | 1                       | 333             | 1                              | 5560.0, 5321.0, 5650.0, 5518.0, 5514.0, 5583.0, 5495.0, 5443.0, 5568.0, 5578.0, 5447.0, 5705.0, 5679.0, 5307.0, 5720.0, 5345.0, 5580.0, 5300.0, 5391.0, 5384.0, 5452.0, 5710.0, 5280.0, 5561.0, 5259.0, 5550.0, 5528.0, 5558.0, 5636.0, 5303.0, 5357.0, 5523.0, 5588.0, 5294.0, 5641.0, 5377.0, 5279.0, 5667.0, 5587.0, 5621.0, 5308.0, 5579.0, 5332.0, 5255.0, 5549.0, 5316.0, 5426.0, 5396.0, 5609.0, 5591.0, 5479.0, 5344.0, 5319.0, 5261.0, 5676.0, 5285.0, 5370.0, 5576.0, 5438.0, 5607.0, 5536.0, 5289.0, 5535.0, 5468.0, 5486.0, 5299.0, 5260.0, 5642.0, 5520.0, 5455.0, 5254.0, 5682.0, 5437.0, 5392.0, 5700.0, 5472.0, 5414.0, 5293.0, 5250.0, 5654.0, 5658.0, 5567.0, 5601.0, 5358.0, 5257.0, 5552.0, 5598.0, 5593.0, 5439.0, 5628.0, 5651.0, 5287.0, 5616.0, 5330.0, 5364.0, 5644.0, 5488.0, 5313.0, 5441.0, 5276.0<br>(number of hits: 1) |
| 2              | 5500            | 9                   | 1                       | 333             | 1                              | 5269.0, 5564.0, 5263.0, 5544.0, 5364.0, 5634.0, 5385.0, 5257.0, 5352.0, 5703.0, 5372.0, 5596.0, 5279.0, 5273.0, 5471.0, 5678.0, 5595.0, 5608.0, 5315.0, 5401.0, 5617.0, 5569.0, 5532.0, 5304.0, 5602.0, 5722.0, 5359.0, 5404.0, 5306.0, 5542.0, 5427.0, 5672.0, 5689.0, 5255.0, 5554.0, 5553.0, 5549.0, 5309.0, 5500.0, 5632.0, 5485.0, 5464.0, 5653.0, 5316.0, 5614.0, 5723.0, 5717.0, 5432.0, 5320.0, 5470.0, 5327.0, 5395.0, 5611.0, 5695.0, 5459.0, 5558.0, 5521.0, 5310.0, 5397.0, 5442.0, 5337.0, 5646.0, 5704.0, 5382.0, 5579.0, 5531.0, 5398.0, 5400.0, 5631.0, 5580.0, 5329.0, 5339.0, 5504.0, 5706.0, 5657.0, 5499.0, 5403.0, 5264.0, 5287.0, 5588.0, 5705.0, 5280.0, 5615.0, 5514.0, 5671.0, 5682.0, 5354.0, 5522.0, 5643.0, 5348.0, 5636.0, 5451.0, 5323.0, 5574.0, 5297.0, 5376.0, 5441.0, 5562.0, 5480.0, 5698.0<br>(number of hits: 3) |
| 3              | 5500            | 9                   | 1                       | 333             | 1                              | 5475.0, 5598.0, 5413.0, 5686.0, 5682.0, 5301.0, 5373.0, 5342.0, 5396.0, 5679.0, 5657.0, 5324.0, 5568.0, 5287.0, 5589.0, 5349.0, 5486.0, 5656.0, 5636.0, 5535.0, 5709.0, 5581.0, 5488.0, 5715.0, 5516.0, 5662.0, 5412.0, 5294.0, 5351.0, 5631.0, 5677.0, 5534.0, 5316.0, 5566.0, 5590.0, 5498.0, 5309.0, 5366.0, 5529.0, 5347.0, 5720.0, 5454.0, 5484.0, 5695.0, 5352.0, 5447.0, 5280.0, 5381.0, 5276.0, 5502.0, 5333.0, 5719.0, 5473.0, 5493.0, 5271.0, 5643.0, 5254.0, 5523.0, 5570.0, 5546.0,                                                                                                                                                                                                                                                                                                                                                       |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5388.0, 5672.0, 5261.0, 5489.0, 5572.0, 5718.0, 5491.0, 5509.0, 5436.0, 5437.0, 5701.0, 5307.0, 5277.0, 5453.0, 5723.0, 5481.0, 5692.0, 5646.0, 5258.0, 5652.0, 5465.0, 5340.0, 5304.0, 5621.0, 5601.0, 5443.0, 5476.0, 5374.0, 5410.0, 5511.0, 5394.0, 5397.0, 5356.0, 5375.0, 5557.0, 5619.0, 5496.0, 5696.0, 5464.0, 5474.0<br>(number of hits: 4 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4 | 5500 | 9 | 1 | 333 | 1 | 5333.0, 5270.0, 5598.0, 5636.0, 5512.0, 5278.0, 5694.0, 5255.0, 5581.0, 5523.0, 5483.0, 5683.0, 5429.0, 5391.0, 5611.0, 5590.0, 5688.0, 5399.0, 5567.0, 5584.0, 5279.0, 5318.0, 5558.0, 5718.0, 5662.0, 5345.0, 5398.0, 5479.0, 5283.0, 5367.0, 5419.0, 5712.0, 5377.0, 5474.0, 5569.0, 5562.0, 5711.0, 5723.0, 5540.0, 5439.0, 5612.0, 5476.0, 5376.0, 5508.0, 5274.0, 5566.0, 5326.0, 5441.0, 5546.0, 5415.0, 5407.0, 5370.0, 5485.0, 5434.0, 5322.0, 5432.0, 5352.0, 5604.0, 5519.0, 5355.0, 5343.0, 5472.0, 5304.0, 5664.0, 5689.0, 5445.0, 5263.0, 5470.0, 5331.0, 5484.0, 5490.0, 5491.0, 5686.0, 5371.0, 5681.0, 5521.0, 5285.0, 5356.0, 5507.0, 5501.0, 5713.0, 5685.0, 5679.0, 5583.0, 5494.0, 5556.0, 5560.0, 5344.0, 5293.0, 5615.0, 5375.0, 5358.0, 5428.0, 5680.0, 5536.0, 5314.0, 5380.0, 5396.0, 5413.0, 5362.0<br>(number of hits: 3 ) |
| 5 | 5500 | 9 | 1 | 333 | 1 | 5333.0, 5473.0, 5572.0, 5319.0, 5687.0, 5519.0, 5518.0, 5338.0, 5346.0, 5689.0, 5501.0, 5628.0, 5710.0, 5448.0, 5612.0, 5375.0, 5317.0, 5464.0, 5428.0, 5315.0, 5621.0, 5656.0, 5606.0, 5401.0, 5552.0, 5268.0, 5635.0, 5541.0, 5434.0, 5387.0, 5278.0, 5604.0, 5643.0, 5599.0, 5694.0, 5452.0, 5395.0, 5302.0, 5267.0, 5334.0, 5442.0, 5713.0, 5619.0, 5680.0, 5331.0, 5371.0, 5605.0, 5642.0, 5438.0, 5297.0, 5670.0, 5632.0, 5353.0, 5339.0, 5310.0, 5368.0, 5341.0, 5363.0, 5664.0, 5364.0, 5447.0, 5615.0, 5701.0, 5388.0, 5432.0, 5312.0, 5623.0, 5688.0, 5439.0, 5407.0, 5287.0, 5525.0, 5340.0, 5613.0, 5709.0, 5636.0, 5575.0, 5717.0, 5416.0, 5275.0, 5666.0, 5494.0, 5327.0, 5264.0, 5705.0, 5556.0, 5554.0, 5324.0, 5266.0, 5721.0, 5431.0, 5718.0, 5655.0, 5399.0, 5547.0, 5361.0, 5696.0, 5284.0, 5562.0, 5675.0<br>(number of hits: 2 ) |
| 6 | 5500 | 9 | 1 | 333 | 1 | 5452.0, 5495.0, 5575.0, 5654.0, 5436.0, 5393.0, 5555.0, 5334.0, 5599.0, 5343.0, 5321.0, 5378.0, 5453.0, 5275.0, 5324.0, 5254.0, 5623.0, 5285.0, 5583.0, 5401.0, 5647.0, 5365.0, 5466.0, 5483.0, 5533.0, 5591.0, 5356.0, 5439.0, 5250.0, 5640.0, 5325.0, 5532.0, 5530.0, 5718.0, 5448.0, 5600.0, 5377.0, 5394.0, 5369.0, 5631.0, 5257.0, 5715.0, 5523.0, 5455.0, 5387.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5490.0, 5327.0, 5723.0, 5659.0, 5534.0, 5306.0, 5299.0, 5271.0, 5385.0, 5326.0, 5291.0, 5492.0, 5444.0, 5619.0, 5442.0, 5574.0, 5445.0, 5673.0, 5580.0, 5550.0, 5677.0, 5266.0, 5435.0, 5476.0, 5648.0, 5264.0, 5465.0, 5679.0, 5486.0, 5411.0, 5313.0, 5477.0, 5396.0, 5419.0, 5342.0, 5272.0, 5292.0, 5617.0, 5695.0, 5370.0, 5629.0, 5538.0, 5682.0, 5639.0, 5720.0, 5298.0, 5607.0, 5581.0, 5517.0, 5256.0, 5456.0, 5627.0, 5625.0, 5553.0, 5304.0<br>(number of hits: 2 )                                                                                                                                                                                                                                                                                                                                                                         |
| 7  | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8  | 5500 | 9 | 1 | 333 | 1 | 5382.0, 5409.0, 5317.0, 5596.0, 5354.0, 5560.0, 5298.0, 5371.0, 5700.0, 5592.0, 5267.0, 5499.0, 5420.0, 5450.0, 5545.0, 5522.0, 5529.0, 5698.0, 5256.0, 5553.0, 5617.0, 5375.0, 5310.0, 5536.0, 5613.0, 5376.0, 5631.0, 5694.0, 5314.0, 5556.0, 5562.0, 5442.0, 5373.0, 5531.0, 5696.0, 5566.0, 5677.0, 5579.0, 5585.0, 5498.0, 5589.0, 5287.0, 5519.0, 5362.0, 5514.0, 5517.0, 5451.0, 5485.0, 5338.0, 5640.0, 5547.0, 5407.0, 5541.0, 5513.0, 5370.0, 5270.0, 5476.0, 5701.0, 5680.0, 5581.0, 5559.0, 5608.0, 5437.0, 5472.0, 5611.0, 5291.0, 5605.0, 5272.0, 5719.0, 5260.0, 5708.0, 5582.0, 5670.0, 5561.0, 5392.0, 5424.0, 5393.0, 5643.0, 5464.0, 5683.0, 5299.0, 5647.0, 5252.0, 5323.0, 5329.0, 5662.0, 5263.0, 5288.0, 5258.0, 5697.0, 5445.0, 5305.0, 5325.0, 5576.0, 5718.0, 5457.0, 5624.0, 5606.0, 5653.0, 5377.0<br>(number of hits: 2 ) |
| 9  | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10 | 5500 | 9 | 1 | 333 | 1 | 5453.0, 5530.0, 5411.0, 5308.0, 5390.0, 5698.0, 5305.0, 5311.0, 5685.0, 5680.0, 5573.0, 5643.0, 5329.0, 5458.0, 5287.0, 5284.0, 5663.0, 5438.0, 5328.0, 5354.0, 5656.0, 5636.0, 5392.0, 5416.0, 5268.0, 5696.0, 5677.0, 5386.0, 5420.0, 5333.0, 5346.0, 5603.0, 5655.0, 5435.0, 5507.0, 5332.0, 5704.0, 5496.0, 5658.0, 5427.0, 5365.0, 5408.0, 5667.0, 5414.0, 5397.0, 5382.0, 5265.0, 5721.0, 5678.0, 5561.0, 5360.0, 5492.0, 5398.0, 5598.0, 5724.0, 5587.0, 5514.0, 5577.0, 5401.0, 5299.0, 5547.0, 5511.0, 5581.0, 5465.0, 5388.0, 5615.0, 5447.0, 5509.0, 5682.0, 5705.0, 5639.0, 5391.0, 5499.0, 5548.0, 5341.0, 5254.0, 5264.0, 5597.0, 5292.0, 5296.0, 5675.0, 5280.0, 5362.0, 5683.0, 5669.0, 5578.0, 5353.0, 5273.0, 5668.0, 5616.0, 5337.0, 5653.0, 5274.0, 5368.0, 5622.0, 5611.0, 5291.0, 5516.0, 5635.0, 5290.0<br>(number of hits: 4 ) |
| 11 | 5500 | 9 | 1 | 333 | 1 | 5344.0, 5377.0, 5368.0, 5482.0, 5640.0, 5324.0, 5545.0, 5544.0, 5533.0, 5379.0, 5720.0, 5721.0, 5362.0, 5610.0, 5312.0, 5486.0, 5376.0, 5413.0, 5663.0, 5443.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5365.0, 5308.0, 5509.0, 5468.0, 5536.0, 5332.0, 5568.0, 5287.0, 5659.0, 5656.0, 5278.0, 5604.0, 5622.0, 5420.0, 5361.0, 5316.0, 5582.0, 5261.0, 5284.0, 5350.0, 5636.0, 5333.0, 5419.0, 5479.0, 5714.0, 5429.0, 5470.0, 5590.0, 5559.0, 5293.0, 5342.0, 5397.0, 5632.0, 5653.0, 5418.0, 5552.0, 5643.0, 5557.0, 5666.0, 5294.0, 5276.0, 5363.0, 5670.0, 5389.0, 5687.0, 5675.0, 5446.0, 5360.0, 5331.0, 5412.0, 5507.0, 5516.0, 5615.0, 5508.0, 5334.0, 5550.0, 5499.0, 5354.0, 5706.0, 5406.0, 5599.0, 5296.0, 5366.0, 5292.0, 5672.0, 5571.0, 5319.0, 5701.0, 5251.0, 5280.0, 5521.0, 5619.0, 5458.0, 5551.0, 5378.0, 5525.0, 5263.0, 5597.0, 5475.0, 5268.0<br>(number of hits: 2 )                                                                                                                                                                 |
| 12 | 5500 | 9 | 1 | 333 | 1 | 5604.0, 5588.0, 5524.0, 5664.0, 5706.0, 5479.0, 5425.0, 5590.0, 5628.0, 5540.0, 5470.0, 5653.0, 5531.0, 5378.0, 5269.0, 5255.0, 5430.0, 5552.0, 5553.0, 5597.0, 5404.0, 5598.0, 5682.0, 5580.0, 5683.0, 5595.0, 5672.0, 5659.0, 5409.0, 5327.0, 5311.0, 5720.0, 5579.0, 5640.0, 5369.0, 5670.0, 5384.0, 5496.0, 5461.0, 5278.0, 5506.0, 5516.0, 5680.0, 5315.0, 5555.0, 5713.0, 5423.0, 5325.0, 5502.0, 5487.0, 5424.0, 5474.0, 5510.0, 5526.0, 5358.0, 5343.0, 5647.0, 5572.0, 5499.0, 5478.0, 5607.0, 5410.0, 5514.0, 5500.0, 5582.0, 5609.0, 5385.0, 5395.0, 5643.0, 5359.0, 5529.0, 5563.0, 5711.0, 5632.0, 5600.0, 5619.0, 5525.0, 5336.0, 5633.0, 5578.0, 5441.0, 5493.0, 5421.0, 5676.0, 5328.0, 5337.0, 5709.0, 5360.0, 5448.0, 5449.0, 5700.0, 5504.0, 5477.0, 5318.0, 5321.0, 5263.0, 5382.0, 5296.0, 5512.0, 5508.0<br>(number of hits: 7 ) |
| 13 | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 14 | 5500 | 9 | 1 | 333 | 1 | 5601.0, 5394.0, 5672.0, 5456.0, 5688.0, 5302.0, 5259.0, 5379.0, 5566.0, 5717.0, 5709.0, 5370.0, 5662.0, 5311.0, 5364.0, 5658.0, 5253.0, 5502.0, 5278.0, 5636.0, 5530.0, 5282.0, 5273.0, 5549.0, 5355.0, 5270.0, 5303.0, 5540.0, 5409.0, 5674.0, 5378.0, 5346.0, 5554.0, 5497.0, 5649.0, 5261.0, 5559.0, 5561.0, 5571.0, 5385.0, 5655.0, 5452.0, 5344.0, 5573.0, 5470.0, 5371.0, 5635.0, 5468.0, 5630.0, 5389.0, 5386.0, 5686.0, 5654.0, 5562.0, 5611.0, 5563.0, 5301.0, 5436.0, 5413.0, 5352.0, 5375.0, 5579.0, 5482.0, 5449.0, 5313.0, 5557.0, 5616.0, 5720.0, 5296.0, 5450.0, 5668.0, 5314.0, 5431.0, 5451.0, 5711.0, 5410.0, 5425.0, 5492.0, 5293.0, 5659.0, 5632.0, 5401.0, 5443.0, 5548.0, 5403.0, 5316.0, 5494.0, 5447.0, 5560.0, 5640.0, 5438.0, 5331.0, 5715.0, 5631.0, 5622.0, 5258.0, 5650.0, 5583.0, 5647.0, 5519.0<br>(number of hits: 4 ) |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 16 | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 17 | 5500 | 9 | 1 | 333 | 1 | 5631.0, 5666.0, 5516.0, 5522.0, 5376.0, 5341.0, 5342.0, 5723.0, 5269.0, 5292.0, 5608.0, 5409.0, 5556.0, 5276.0, 5653.0, 5570.0, 5636.0, 5301.0, 5634.0, 5330.0, 5672.0, 5492.0, 5260.0, 5466.0, 5528.0, 5677.0, 5319.0, 5553.0, 5637.0, 5638.0, 5521.0, 5483.0, 5359.0, 5566.0, 5474.0, 5661.0, 5686.0, 5514.0, 5558.0, 5496.0, 5724.0, 5588.0, 5368.0, 5384.0, 5336.0, 5564.0, 5321.0, 5284.0, 5334.0, 5297.0, 5531.0, 5685.0, 5554.0, 5585.0, 5667.0, 5632.0, 5371.0, 5322.0, 5399.0, 5264.0, 5413.0, 5717.0, 5622.0, 5437.0, 5463.0, 5706.0, 5460.0, 5458.0, 5265.0, 5387.0, 5589.0, 5541.0, 5436.0, 5333.0, 5633.0, 5303.0, 5364.0, 5346.0, 5533.0, 5396.0, 5335.0, 5441.0, 5689.0, 5536.0, 5252.0, 5406.0, 5324.0, 5506.0, 5500.0, 5543.0, 5302.0, 5306.0, 5559.0, 5630.0, 5650.0, 5476.0, 5250.0, 5615.0, 5318.0, 5663.0<br>(number of hits: 4 ) |
| 18 | 5500 | 9 | 1 | 333 | 1 | 5599.0, 5693.0, 5396.0, 5529.0, 5563.0, 5472.0, 5620.0, 5310.0, 5560.0, 5597.0, 5309.0, 5452.0, 5336.0, 5447.0, 5622.0, 5264.0, 5385.0, 5542.0, 5515.0, 5573.0, 5483.0, 5574.0, 5701.0, 5716.0, 5361.0, 5290.0, 5432.0, 5331.0, 5434.0, 5308.0, 5626.0, 5526.0, 5722.0, 5307.0, 5673.0, 5528.0, 5423.0, 5366.0, 5435.0, 5713.0, 5357.0, 5710.0, 5708.0, 5367.0, 5565.0, 5287.0, 5480.0, 5378.0, 5504.0, 5285.0, 5475.0, 5525.0, 5252.0, 5635.0, 5441.0, 5266.0, 5487.0, 5430.0, 5405.0, 5281.0, 5321.0, 5685.0, 5510.0, 5253.0, 5459.0, 5546.0, 5706.0, 5652.0, 5535.0, 5438.0, 5322.0, 5567.0, 5398.0, 5262.0, 5717.0, 5692.0, 5534.0, 5275.0, 5588.0, 5614.0, 5584.0, 5362.0, 5650.0, 5271.0, 5476.0, 5543.0, 5485.0, 5670.0, 5707.0, 5484.0, 5458.0, 5342.0, 5328.0, 5578.0, 5272.0, 5327.0, 5604.0, 5585.0, 5463.0, 5531.0<br>(number of hits: 1 ) |
| 19 | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 20 | 5500 | 9 | 1 | 333 | 1 | 5446.0, 5634.0, 5638.0, 5361.0, 5595.0, 5379.0, 5653.0, 5515.0, 5683.0, 5356.0, 5524.0, 5371.0, 5607.0, 5542.0, 5327.0, 5397.0, 5385.0, 5615.0, 5659.0, 5640.0, 5598.0, 5299.0, 5281.0, 5709.0, 5402.0, 5518.0, 5317.0, 5303.0, 5688.0, 5442.0, 5297.0, 5555.0, 5706.0, 5700.0, 5458.0, 5375.0, 5571.0, 5350.0, 5374.0, 5377.0, 5655.0, 5277.0, 5423.0, 5636.0, 5614.0, 5344.0, 5546.0, 5427.0, 5418.0, 5503.0, 5362.0, 5448.0, 5325.0, 5540.0, 5392.0, 5578.0, 5525.0, 5269.0, 5520.0, 5541.0, 5662.0, 5304.0, 5567.0, 5470.0, 5673.0, 5278.0, 5347.0, 5475.0, 5389.0, 5443.0, 5456.0, 5438.0, 5591.0, 5301.0, 5290.0,                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5511.0, 5329.0, 5422.0, 5512.0, 5538.0, 5326.0, 5590.0, 5279.0, 5487.0, 5573.0, 5682.0, 5430.0, 5708.0, 5449.0, 5444.0, 5684.0, 5298.0, 5722.0, 5565.0, 5626.0, 5360.0, 5564.0, 5484.0, 5306.0, 5650.0<br>(number of hits: 1 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 21 | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 22 | 5500 | 9 | 1 | 333 | 1 | 5518.0, 5381.0, 5698.0, 5521.0, 5701.0, 5607.0, 5429.0, 5330.0, 5635.0, 5266.0, 5309.0, 5296.0, 5410.0, 5423.0, 5444.0, 5483.0, 5681.0, 5404.0, 5310.0, 5702.0, 5498.0, 5288.0, 5369.0, 5372.0, 5307.0, 5353.0, 5271.0, 5384.0, 5431.0, 5719.0, 5435.0, 5311.0, 5306.0, 5382.0, 5586.0, 5675.0, 5571.0, 5467.0, 5704.0, 5436.0, 5259.0, 5465.0, 5644.0, 5322.0, 5601.0, 5354.0, 5529.0, 5566.0, 5651.0, 5272.0, 5503.0, 5712.0, 5638.0, 5278.0, 5312.0, 5319.0, 5289.0, 5349.0, 5283.0, 5438.0, 5406.0, 5260.0, 5317.0, 5501.0, 5292.0, 5507.0, 5613.0, 5506.0, 5615.0, 5547.0, 5654.0, 5574.0, 5378.0, 5339.0, 5523.0, 5340.0, 5373.0, 5269.0, 5533.0, 5594.0, 5461.0, 5703.0, 5256.0, 5662.0, 5281.0, 5293.0, 5687.0, 5490.0, 5290.0, 5374.0, 5443.0, 5250.0, 5479.0, 5402.0, 5265.0, 5632.0, 5593.0, 5543.0, 5695.0, 5362.0<br>(number of hits: 5 ) |
| 23 | 5500 | 9 | 1 | 333 | 1 | 5275.0, 5481.0, 5564.0, 5325.0, 5373.0, 5430.0, 5378.0, 5417.0, 5654.0, 5502.0, 5652.0, 5300.0, 5370.0, 5292.0, 5693.0, 5379.0, 5369.0, 5703.0, 5676.0, 5459.0, 5327.0, 5255.0, 5669.0, 5304.0, 5501.0, 5479.0, 5349.0, 5593.0, 5507.0, 5347.0, 5456.0, 5397.0, 5342.0, 5549.0, 5433.0, 5372.0, 5262.0, 5283.0, 5497.0, 5289.0, 5535.0, 5309.0, 5411.0, 5626.0, 5376.0, 5476.0, 5541.0, 5601.0, 5582.0, 5638.0, 5612.0, 5391.0, 5389.0, 5374.0, 5254.0, 5415.0, 5319.0, 5562.0, 5639.0, 5343.0, 5260.0, 5616.0, 5518.0, 5493.0, 5698.0, 5437.0, 5578.0, 5563.0, 5548.0, 5403.0, 5435.0, 5591.0, 5553.0, 5604.0, 5565.0, 5667.0, 5718.0, 5402.0, 5323.0, 5624.0, 5446.0, 5331.0, 5352.0, 5310.0, 5651.0, 5550.0, 5410.0, 5665.0, 5322.0, 5334.0, 5646.0, 5419.0, 5620.0, 5345.0, 5514.0, 5579.0, 5532.0, 5452.0, 5308.0, 5356.0<br>(number of hits: 5 ) |
| 24 | 5500 | 9 | 1 | 333 | 1 | 5661.0, 5585.0, 5598.0, 5522.0, 5424.0, 5679.0, 5673.0, 5276.0, 5640.0, 5289.0, 5428.0, 5455.0, 5487.0, 5406.0, 5609.0, 5490.0, 5319.0, 5351.0, 5560.0, 5670.0, 5429.0, 5627.0, 5532.0, 5562.0, 5703.0, 5309.0, 5533.0, 5696.0, 5505.0, 5667.0, 5656.0, 5507.0, 5638.0, 5399.0, 5474.0, 5272.0, 5625.0, 5281.0, 5468.0, 5502.0, 5323.0, 5328.0, 5295.0, 5391.0, 5662.0, 5547.0, 5420.0, 5304.0, 5265.0, 5326.0, 5407.0, 5542.0, 5392.0, 5608.0, 5591.0,                                                                                                                                                                                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5476.0, 5623.0, 5402.0, 5464.0, 5481.0, 5571.0, 5513.0, 5607.0, 5648.0, 5711.0, 5432.0, 5698.0, 5358.0, 5317.0, 5612.0, 5338.0, 5254.0, 5361.0, 5458.0, 5634.0, 5695.0, 5561.0, 5619.0, 5479.0, 5559.0, 5410.0, 5566.0, 5582.0, 5469.0, 5549.0, 5665.0, 5384.0, 5519.0, 5570.0, 5647.0, 5637.0, 5552.0, 5322.0, 5451.0, 5581.0, 5520.0, 5362.0, 5535.0, 5329.0, 5282.0<br>(number of hits: 3 )                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 25 | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 26 | 5500 | 9 | 1 | 333 | 1 | 5366.0, 5631.0, 5256.0, 5497.0, 5501.0, 5515.0, 5407.0, 5495.0, 5303.0, 5478.0, 5571.0, 5260.0, 5312.0, 5616.0, 5388.0, 5708.0, 5408.0, 5621.0, 5354.0, 5353.0, 5490.0, 5279.0, 5250.0, 5368.0, 5724.0, 5532.0, 5592.0, 5365.0, 5705.0, 5660.0, 5675.0, 5427.0, 5624.0, 5687.0, 5335.0, 5585.0, 5686.0, 5512.0, 5333.0, 5552.0, 5347.0, 5357.0, 5617.0, 5445.0, 5496.0, 5510.0, 5688.0, 5698.0, 5337.0, 5563.0, 5387.0, 5406.0, 5719.0, 5697.0, 5661.0, 5525.0, 5375.0, 5597.0, 5608.0, 5612.0, 5699.0, 5643.0, 5509.0, 5291.0, 5263.0, 5259.0, 5524.0, 5378.0, 5523.0, 5659.0, 5603.0, 5650.0, 5633.0, 5271.0, 5426.0, 5570.0, 5502.0, 5670.0, 5437.0, 5483.0, 5284.0, 5320.0, 5584.0, 5516.0, 5593.0, 5550.0, 5373.0, 5604.0, 5383.0, 5555.0, 5489.0, 5628.0, 5391.0, 5678.0, 5627.0, 5351.0, 5439.0, 5716.0, 5334.0, 5280.0<br>(number of hits: 5 ) |
| 27 | 5500 | 9 | 1 | 333 | 1 | 5618.0, 5527.0, 5677.0, 5568.0, 5380.0, 5567.0, 5617.0, 5596.0, 5440.0, 5721.0, 5675.0, 5403.0, 5356.0, 5473.0, 5615.0, 5367.0, 5358.0, 5455.0, 5485.0, 5620.0, 5595.0, 5713.0, 5400.0, 5702.0, 5672.0, 5443.0, 5334.0, 5308.0, 5476.0, 5396.0, 5402.0, 5447.0, 5315.0, 5650.0, 5659.0, 5665.0, 5533.0, 5314.0, 5427.0, 5484.0, 5260.0, 5306.0, 5701.0, 5622.0, 5371.0, 5515.0, 5350.0, 5351.0, 5613.0, 5541.0, 5461.0, 5624.0, 5501.0, 5369.0, 5635.0, 5320.0, 5523.0, 5310.0, 5393.0, 5295.0, 5498.0, 5640.0, 5389.0, 5554.0, 5271.0, 5432.0, 5458.0, 5487.0, 5307.0, 5398.0, 5605.0, 5600.0, 5534.0, 5488.0, 5410.0, 5547.0, 5475.0, 5610.0, 5591.0, 5518.0, 5302.0, 5436.0, 5251.0, 5397.0, 5361.0, 5437.0, 5438.0, 5507.0, 5626.0, 5491.0, 5588.0, 5257.0, 5556.0, 5333.0, 5512.0, 5426.0, 5311.0, 5401.0, 5584.0, 5297.0<br>(number of hits: 3 ) |
| 28 | 5500 | 9 | 1 | 333 | 0 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 29 | 5500 | 9 | 1 | 333 | 1 | 5434.0, 5510.0, 5690.0, 5406.0, 5327.0, 5291.0, 5635.0, 5357.0, 5326.0, 5337.0, 5705.0, 5343.0, 5504.0, 5545.0, 5703.0, 5517.0, 5621.0, 5495.0, 5507.0, 5392.0, 5439.0, 5529.0, 5554.0, 5615.0, 5577.0, 5298.0, 5313.0, 5400.0, 5525.0, 5718.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----|------|---|---|-----|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5492.0, 5714.0, 5386.0, 5427.0, 5485.0,<br>5493.0, 5447.0, 5370.0, 5694.0, 5692.0,<br>5390.0, 5470.0, 5544.0, 5605.0, 5378.0,<br>5294.0, 5255.0, 5667.0, 5325.0, 5586.0,<br>5398.0, 5657.0, 5519.0, 5704.0, 5506.0,<br>5363.0, 5539.0, 5572.0, 5339.0, 5520.0,<br>5490.0, 5399.0, 5494.0, 5253.0, 5527.0,<br>5356.0, 5483.0, 5266.0, 5379.0, 5553.0,<br>5308.0, 5536.0, 5265.0, 5590.0, 5432.0,<br>5599.0, 5301.0, 5388.0, 5501.0, 5389.0,<br>5598.0, 5516.0, 5445.0, 5292.0, 5424.0,<br>5627.0, 5679.0, 5478.0, 5300.0, 5347.0,<br>5571.0, 5340.0, 5328.0, 5345.0, 5295.0,<br>5335.0, 5387.0, 5643.0, 5475.0, 5591.0<br>(number of hits: 8 )                                                                                                                                                                                                                                                                   |
| 30 | 5500 | 9 | 1 | 333 | 1 | 5568.0, 5669.0, 5702.0, 5416.0, 5388.0,<br>5318.0, 5310.0, 5267.0, 5284.0, 5543.0,<br>5515.0, 5508.0, 5493.0, 5381.0, 5624.0,<br>5440.0, 5570.0, 5468.0, 5551.0, 5400.0,<br>5342.0, 5626.0, 5470.0, 5408.0, 5256.0,<br>5533.0, 5484.0, 5528.0, 5683.0, 5671.0,<br>5328.0, 5516.0, 5469.0, 5271.0, 5684.0,<br>5500.0, 5358.0, 5467.0, 5294.0, 5599.0,<br>5296.0, 5365.0, 5723.0, 5638.0, 5315.0,<br>5252.0, 5595.0, 5316.0, 5717.0, 5340.0,<br>5370.0, 5618.0, 5278.0, 5430.0, 5272.0,<br>5548.0, 5629.0, 5275.0, 5279.0, 5525.0,<br>5617.0, 5708.0, 5317.0, 5643.0, 5485.0,<br>5705.0, 5302.0, 5300.0, 5304.0, 5707.0,<br>5546.0, 5462.0, 5505.0, 5699.0, 5491.0,<br>5674.0, 5632.0, 5719.0, 5277.0, 5611.0,<br>5682.0, 5517.0, 5474.0, 5483.0, 5476.0,<br>5325.0, 5565.0, 5541.0, 5580.0, 5652.0,<br>5337.0, 5397.0, 5513.0, 5598.0, 5295.0,<br>5261.0, 5620.0, 5666.0, 5524.0, 5603.0<br>(number of hits: 3 ) |

**5510 MHz, 40 MHz Bandwidth**

| <b>Radar Signal Type</b>      | <b>Waveform/Trial Number</b> | <b>Detection (%)</b> | <b>Limit (%)</b> | <b>Pass/Fail</b> |
|-------------------------------|------------------------------|----------------------|------------------|------------------|
| <b>Type 1A/1B</b>             | 30                           | 100 %                | 60%              | Pass             |
| <b>Type 2</b>                 | 30                           | 73.3 %               | 60%              | Pass             |
| <b>Type 3</b>                 | 30                           | 86.7 %               | 60%              | Pass             |
| <b>Type 4</b>                 | 30                           | 70 %                 | 60%              | Pass             |
| <b>Aggregate (Type1 to 4)</b> | 120                          | 82.5 %               | 80%              | Pass             |
| <b>Type 5</b>                 | 30                           | 100 %                | 80%              | Pass             |
| <b>Type 6</b>                 | 30                           | 100 %                | 70%              | Pass             |

Please refer to the following statistical tables:

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

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5510            | 99                 | 1                       | 538             | 1                              |
| 2                                            | 5510            | 68                 | 1                       | 778             | 1                              |
| 3                                            | 5510            | 67                 | 1                       | 798             | 1                              |
| 4                                            | 5510            | 83                 | 1                       | 638             | 1                              |
| 5                                            | 5510            | 61                 | 1                       | 878             | 1                              |
| 6                                            | 5492            | 65                 | 1                       | 818             | 1                              |
| 7                                            | 5492            | 18                 | 1                       | 3066            | 1                              |
| 8                                            | 5492            | 81                 | 1                       | 658             | 1                              |
| 9                                            | 5492            | 102                | 1                       | 518             | 1                              |
| 10                                           | 5492            | 76                 | 1                       | 698             | 1                              |
| 11                                           | 5528            | 78                 | 1                       | 678             | 1                              |
| 12                                           | 5528            | 92                 | 1                       | 578             | 1                              |
| 13                                           | 5528            | 58                 | 1                       | 918             | 1                              |
| 14                                           | 5528            | 70                 | 1                       | 758             | 1                              |
| 15                                           | 5528            | 57                 | 1                       | 938             | 1                              |
| 16                                           | 5510            | 39                 | 1                       | 1373            | 1                              |
| 17                                           | 5510            | 40                 | 1                       | 1345            | 1                              |
| 18                                           | 5510            | 28                 | 1                       | 1928            | 1                              |
| 19                                           | 5510            | 70                 | 1                       | 754             | 1                              |
| 20                                           | 5510            | 35                 | 1                       | 1520            | 1                              |
| 21                                           | 5492            | 20                 | 1                       | 2764            | 1                              |
| 22                                           | 5492            | 33                 | 1                       | 1618            | 1                              |
| 23                                           | 5492            | 96                 | 1                       | 555             | 1                              |
| 24                                           | 5492            | 61                 | 1                       | 877             | 1                              |
| 25                                           | 5492            | 21                 | 1                       | 2622            | 1                              |
| 26                                           | 5528            | 98                 | 1                       | 543             | 1                              |
| 27                                           | 5528            | 34                 | 1                       | 1592            | 1                              |
| 28                                           | 5528            | 20                 | 1                       | 2717            | 1                              |
| 29                                           | 5528            | 22                 | 1                       | 2405            | 1                              |
| 30                                           | 5528            | 21                 | 1                       | 2562            | 1                              |
| <b>Detection Percentage: 100 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-2 Radar Type 2 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5510            | 24                 | 1                       | 197             | 1                              |
| 2                                             | 5510            | 27                 | 4.9                     | 220             | 1                              |
| 3                                             | 5510            | 26                 | 2.7                     | 205             | 1                              |
| 4                                             | 5510            | 28                 | 1.1                     | 188             | 1                              |
| 5                                             | 5510            | 26                 | 1.1                     | 178             | 1                              |
| 6                                             | 5510            | 29                 | 5                       | 222             | 0                              |
| 7                                             | 5510            | 25                 | 3.5                     | 202             | 0                              |
| 8                                             | 5510            | 23                 | 1                       | 214             | 1                              |
| 9                                             | 5510            | 26                 | 1.3                     | 214             | 1                              |
| 10                                            | 5510            | 28                 | 2.1                     | 169             | 1                              |
| 11                                            | 5492            | 25                 | 2.1                     | 216             | 1                              |
| 12                                            | 5492            | 25                 | 4.1                     | 163             | 1                              |
| 13                                            | 5492            | 28                 | 1.6                     | 163             | 1                              |
| 14                                            | 5492            | 25                 | 2.3                     | 206             | 0                              |
| 15                                            | 5492            | 29                 | 3.8                     | 171             | 1                              |
| 16                                            | 5492            | 24                 | 1.9                     | 159             | 0                              |
| 17                                            | 5492            | 29                 | 2.8                     | 150             | 1                              |
| 18                                            | 5492            | 27                 | 4.4                     | 165             | 0                              |
| 19                                            | 5492            | 23                 | 3.1                     | 150             | 1                              |
| 20                                            | 5492            | 25                 | 2.4                     | 196             | 1                              |
| 21                                            | 5528            | 29                 | 2.2                     | 168             | 1                              |
| 22                                            | 5528            | 27                 | 4.3                     | 170             | 0                              |
| 23                                            | 5528            | 26                 | 1.5                     | 199             | 0                              |
| 24                                            | 5528            | 29                 | 2.6                     | 196             | 1                              |
| 25                                            | 5528            | 27                 | 1.1                     | 219             | 1                              |
| 26                                            | 5528            | 26                 | 2.7                     | 161             | 1                              |
| 27                                            | 5528            | 29                 | 5                       | 219             | 1                              |
| 28                                            | 5528            | 29                 | 1.5                     | 226             | 1                              |
| 29                                            | 5528            | 27                 | 2.1                     | 201             | 0                              |
| 30                                            | 5528            | 29                 | 1.2                     | 174             | 1                              |
| <b>Detection Percentage: 73.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-3 Radar Type 3 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5510            | 18                 | 7.7                     | 377             | 1                              |
| 2                                             | 5510            | 18                 | 8.6                     | 278             | 1                              |
| 3                                             | 5510            | 17                 | 9.9                     | 259             | 0                              |
| 4                                             | 5510            | 18                 | 9.1                     | 239             | 0                              |
| 5                                             | 5510            | 18                 | 7.1                     | 264             | 1                              |
| 6                                             | 5510            | 17                 | 6.1                     | 396             | 1                              |
| 7                                             | 5510            | 17                 | 6.8                     | 473             | 1                              |
| 8                                             | 5510            | 16                 | 7.1                     | 301             | 1                              |
| 9                                             | 5510            | 18                 | 6                       | 307             | 1                              |
| 10                                            | 5510            | 17                 | 6.1                     | 412             | 0                              |
| 11                                            | 5492            | 17                 | 6.7                     | 412             | 1                              |
| 12                                            | 5492            | 16                 | 9.5                     | 309             | 1                              |
| 13                                            | 5492            | 17                 | 9.9                     | 300             | 1                              |
| 14                                            | 5492            | 18                 | 7.7                     | 271             | 1                              |
| 15                                            | 5492            | 17                 | 9.3                     | 250             | 1                              |
| 16                                            | 5492            | 18                 | 8.9                     | 346             | 1                              |
| 17                                            | 5492            | 18                 | 7.1                     | 470             | 1                              |
| 18                                            | 5492            | 16                 | 10                      | 402             | 1                              |
| 19                                            | 5492            | 18                 | 8.5                     | 468             | 0                              |
| 20                                            | 5492            | 16                 | 10                      | 494             | 1                              |
| 21                                            | 5528            | 18                 | 8.3                     | 396             | 1                              |
| 22                                            | 5528            | 18                 | 9.2                     | 456             | 1                              |
| 23                                            | 5528            | 17                 | 9.4                     | 409             | 1                              |
| 24                                            | 5528            | 16                 | 9.8                     | 369             | 1                              |
| 25                                            | 5528            | 17                 | 8.7                     | 425             | 1                              |
| 26                                            | 5528            | 17                 | 7.6                     | 402             | 1                              |
| 27                                            | 5528            | 17                 | 8.8                     | 292             | 1                              |
| 28                                            | 5528            | 17                 | 8.7                     | 271             | 1                              |
| 29                                            | 5528            | 18                 | 8.8                     | 439             | 1                              |
| 30                                            | 5528            | 18                 | 8                       | 206             | 1                              |
| <b>Detection Percentage: 86.7 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-4 Radar Type 4 Statistical Performance**

| <b>Trial #</b>                              | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|---------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                           | 5510            | 15                 | 14.3                    | 493             | 1                              |
| 2                                           | 5510            | 16                 | 17.9                    | 304             | 1                              |
| 3                                           | 5510            | 15                 | 14.6                    | 433             | 1                              |
| 4                                           | 5510            | 13                 | 15.2                    | 451             | 0                              |
| 5                                           | 5510            | 15                 | 15.2                    | 365             | 0                              |
| 6                                           | 5510            | 12                 | 19.8                    | 390             | 1                              |
| 7                                           | 5510            | 15                 | 16.2                    | 291             | 1                              |
| 8                                           | 5510            | 12                 | 19.9                    | 258             | 1                              |
| 9                                           | 5510            | 15                 | 12.6                    | 389             | 0                              |
| 10                                          | 5510            | 16                 | 16                      | 289             | 0                              |
| 11                                          | 5492            | 16                 | 17.2                    | 416             | 1                              |
| 12                                          | 5492            | 15                 | 19.2                    | 473             | 1                              |
| 13                                          | 5492            | 14                 | 17.7                    | 438             | 1                              |
| 14                                          | 5492            | 12                 | 13.6                    | 306             | 0                              |
| 15                                          | 5492            | 16                 | 17.5                    | 365             | 0                              |
| 16                                          | 5492            | 16                 | 18.8                    | 412             | 1                              |
| 17                                          | 5492            | 14                 | 13.3                    | 256             | 0                              |
| 18                                          | 5492            | 14                 | 15.3                    | 395             | 0                              |
| 19                                          | 5492            | 12                 | 17.2                    | 373             | 1                              |
| 20                                          | 5492            | 13                 | 14.4                    | 481             | 1                              |
| 21                                          | 5528            | 15                 | 13.2                    | 234             | 1                              |
| 22                                          | 5528            | 16                 | 18.6                    | 439             | 1                              |
| 23                                          | 5528            | 12                 | 12.3                    | 282             | 1                              |
| 24                                          | 5528            | 14                 | 15.3                    | 209             | 0                              |
| 25                                          | 5528            | 15                 | 14.9                    | 461             | 1                              |
| 26                                          | 5528            | 15                 | 18.3                    | 376             | 1                              |
| 27                                          | 5528            | 14                 | 19.4                    | 222             | 1                              |
| 28                                          | 5528            | 14                 | 11.6                    | 203             | 1                              |
| 29                                          | 5528            | 12                 | 17.3                    | 374             | 1                              |
| 30                                          | 5528            | 16                 | 17.8                    | 238             | 1                              |
| <b>Detection Percentage: 70 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-5 Radar Type 5 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------------------|
| 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                                           | 5499.2          | 1                              |
| 13                                           | 5495.6          | 1                              |
| 14                                           | 5495.6          | 1                              |
| 15                                           | 5497.2          | 1                              |
| 16                                           | 5498.8          | 1                              |
| 17                                           | 5494.8          | 1                              |
| 18                                           | 5497.6          | 1                              |
| 19                                           | 5495.2          | 1                              |
| 20                                           | 5497.6          | 1                              |
| 21                                           | 5524.8          | 1                              |
| 22                                           | 5524.4          | 1                              |
| 23                                           | 5525.2          | 1                              |
| 24                                           | 5521.2          | 1                              |
| 25                                           | 5523.2          | 1                              |
| 26                                           | 5525.2          | 1                              |
| 27                                           | 5521.6          | 1                              |
| 28                                           | 5520.4          | 1                              |
| 29                                           | 5522.0          | 1                              |
| 30                                           | 5526.0          | 1                              |
| <b>Detection Percentage: 100 % (&gt;80%)</b> |                 |                                |

## 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     | 16          | 94.1             | -                      | -                      | 0.408422       | 1                       |
| 1       | 2     | 16          | 58               | 1689                   | -                      | 0.825941       |                         |
| 2       | 2     | 16          | 54.7             | 1056                   | -                      | 2.01933        |                         |
| 3       | 3     | 16          | 96.2             | 1708                   | 1331                   | 3.161875       |                         |
| 4       | 2     | 16          | 55               | 1811                   | -                      | 3.629131       |                         |
| 5       | 2     | 16          | 93.6             | 1278                   | -                      | 4.78427        |                         |
| 6       | 2     | 16          | 55.6             | 1213                   | -                      | 5.234528       |                         |
| 7       | 2     | 16          | 82.4             | 1697                   | -                      | 5.64412        |                         |
| 8       | 2     | 16          | 58.1             | 1327                   | -                      | 7.173329       |                         |
| 9       | 2     | 16          | 50               | 1067                   | -                      | 7.268399       |                         |
| 10      | 2     | 16          | 78.1             | 1017                   | -                      | 8.248395       |                         |
| 11      | 3     | 16          | 68.1             | 1849                   | 1343                   | 9.293774       |                         |
| 12      | 2     | 16          | 99.2             | 1922                   | -                      | 9.930667       |                         |
| 13      | 2     | 16          | 63.4             | 1825                   | -                      | 10.47678       |                         |
| 14      | 1     | 16          | 72.5             | -                      | -                      | 11.350467      |                         |

## 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     | 15          | 58               | 1623                   | 1670                   | 0.16851        | 1                       |
| 1       | 3     | 15          | 54.3             | 1146                   | 1764                   | 0.917229       |                         |
| 2       | 2     | 15          | 96.6             | 1132                   | -                      | 2.505404       |                         |
| 3       | 3     | 15          | 73.3             | 1881                   | 1452                   | 3.334094       |                         |
| 4       | 3     | 15          | 96.7             | 1760                   | 1747                   | 3.735434       |                         |
| 5       | 1     | 15          | 74.8             | -                      | -                      | 4.645401       |                         |
| 6       | 1     | 15          | 64.7             | -                      | -                      | 5.593501       |                         |
| 7       | 1     | 15          | 68.8             | -                      | -                      | 6.616459       |                         |
| 8       | 1     | 15          | 75.3             | -                      | -                      | 7.528426       |                         |
| 9       | 2     | 15          | 56.3             | 1754                   | -                      | 8.193985       |                         |
| 10      | 1     | 15          | 89.2             | -                      | -                      | 8.774546       |                         |
| 11      | 1     | 15          | 62.1             | -                      | -                      | 10.120039      |                         |
| 12      | 1     | 15          | 59.2             | -                      | -                      | 11.016077      |                         |
| 13      | 1     | 15          | 64.6             | -                      | -                      | 11.983841      |                         |

## Bin5 Statistics 3

| <b>Trial #</b> | <b>Pulse</b> | <b>Chirp (MHz)</b> | <b>Pulse Width (μS)</b> | <b>Pulse 1-2 spacing (uS)</b> | <b>Pulse 2-3 spacing (uS)</b> | <b>Pulse Start(S)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------|--------------|--------------------|-------------------------|-------------------------------|-------------------------------|-----------------------|--------------------------------|
| 0              | 3            | 8                  | 53.2                    | 1745                          | 1653                          | 0.592343              | 1                              |
| 1              | 2            | 8                  | 77.1                    | 1402                          | -                             | 1.032942              |                                |
| 2              | 1            | 8                  | 78.6                    | -                             | -                             | 1.856635              |                                |
| 3              | 2            | 8                  | 97.9                    | 1382                          | -                             | 2.799097              |                                |
| 4              | 2            | 8                  | 51.6                    | 1881                          | -                             | 3.508217              |                                |
| 5              | 2            | 8                  | 79.9                    | 1073                          | -                             | 3.736887              |                                |
| 6              | 2            | 8                  | 86.5                    | 1027                          | -                             | 4.559818              |                                |
| 7              | 2            | 8                  | 57.3                    | 1010                          | -                             | 5.228343              |                                |
| 8              | 2            | 8                  | 60.2                    | 1585                          | -                             | 6.230041              |                                |
| 9              | 3            | 8                  | 79.9                    | 1102                          | 1927                          | 7.022267              |                                |
| 10             | 3            | 8                  | 89.5                    | 1473                          | 1874                          | 7.514737              |                                |
| 11             | 2            | 8                  | 88.9                    | 1058                          | -                             | 8.437623              |                                |
| 12             | 2            | 8                  | 90.3                    | 1636                          | -                             | 8.81368               |                                |
| 13             | 2            | 8                  | 65.5                    | 1574                          | -                             | 9.582183              |                                |
| 14             | 1            | 8                  | 83.5                    | -                             | -                             | 9.999076              |                                |
| 15             | 2            | 8                  | 50.2                    | 1636                          | -                             | 11.258654             |                                |
| 16             | 1            | 8                  | 53.2                    | -                             | -                             | 11.760305             |                                |

## Bin5 Statistics 4

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 15          | 74.1             | 1417                   | -                      | 0.374875       | 1                       |
| 1       | 2     | 15          | 56.5             | 1910                   | -                      | 1.223325       |                         |
| 2       | 3     | 15          | 86.1             | 1416                   | 1508                   | 1.646722       |                         |
| 3       | 2     | 15          | 54.2             | 1962                   | -                      | 2.407704       |                         |
| 4       | 2     | 15          | 79.7             | 1876                   | -                      | 2.982146       |                         |
| 5       | 1     | 15          | 63.9             | -                      | -                      | 3.174187       |                         |
| 6       | 1     | 15          | 59.4             | -                      | -                      | 4.316679       |                         |
| 7       | 2     | 15          | 84               | 1747                   | -                      | 4.823701       |                         |
| 8       | 2     | 15          | 93.6             | 1905                   | -                      | 5.098944       |                         |
| 9       | 1     | 15          | 51.9             | -                      | -                      | 6.150468       |                         |
| 10      | 2     | 15          | 78.3             | 1909                   | -                      | 6.714325       |                         |
| 11      | 3     | 15          | 88.5             | 1619                   | 1936                   | 7.321324       |                         |
| 12      | 1     | 15          | 86.2             | -                      | -                      | 7.580405       |                         |
| 13      | 3     | 15          | 99.6             | 1415                   | 1660                   | 8.257777       |                         |
| 14      | 2     | 15          | 79.3             | 1782                   | -                      | 9.115814       |                         |
| 15      | 2     | 15          | 68.4             | 1506                   | -                      | 9.740358       |                         |
| 16      | 3     | 15          | 68.2             | 1403                   | 1868                   | 10.409122      |                         |
| 17      | 3     | 15          | 81.2             | 1625                   | 1861                   | 11.162293      |                         |
| 18      | 2     | 15          | 79.8             | 1470                   | -                      | 11.646635      |                         |

## 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     | 7           | 98.4             | 1620                   | -                      | 0.091395       | 1                       |
| 1       | 3     | 7           | 55.2             | 1182                   | 1513                   | 1.008608       |                         |
| 2       | 2     | 7           | 80.8             | 1866                   | -                      | 1.848416       |                         |
| 3       | 3     | 7           | 68.2             | 1035                   | 1891                   | 3.319417       |                         |
| 4       | 3     | 7           | 52.5             | 1368                   | 1228                   | 4.473028       |                         |
| 5       | 1     | 7           | 95.6             | -                      | -                      | 5.461229       |                         |
| 6       | 1     | 7           | 67.7             | -                      | -                      | 6.28336        |                         |
| 7       | 2     | 7           | 82.8             | 1375                   | -                      | 7.269149       |                         |
| 8       | 2     | 7           | 64.4             | 1155                   | -                      | 8.222645       |                         |
| 9       | 3     | 7           | 56.9             | 1745                   | 1901                   | 8.50771        |                         |
| 10      | 3     | 7           | 95.7             | 1505                   | 1200                   | 9.549063       |                         |
| 11      | 1     | 7           | 54.9             | -                      | -                      | 10.257541      |                         |
| 12      | 3     | 7           | 96.2             | 1821                   | 1713                   | 11.616415      |                         |

## 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           | 99.8             | -                      | -                      | 0.232839       | 1                       |
| 1       | 2     | 7           | 93.9             | 1515                   | -                      | 1.432053       |                         |
| 2       | 2     | 7           | 80.3             | 1060                   | -                      | 1.866308       |                         |
| 3       | 1     | 7           | 67               | -                      | -                      | 2.37527        |                         |
| 4       | 2     | 7           | 93.1             | 1328                   | -                      | 3.612039       |                         |
| 5       | 1     | 7           | 92.3             | -                      | -                      | 3.789091       |                         |
| 6       | 2     | 7           | 95.8             | 1477                   | -                      | 5.145646       |                         |
| 7       | 1     | 7           | 76.6             | -                      | -                      | 5.789981       |                         |
| 8       | 3     | 7           | 62.1             | 1886                   | 1698                   | 6.668874       |                         |
| 9       | 2     | 7           | 62.8             | 1111                   | -                      | 7.24062        |                         |
| 10      | 2     | 7           | 92.6             | 1815                   | -                      | 7.891065       |                         |
| 11      | 2     | 7           | 77.9             | 1080                   | -                      | 8.660677       |                         |
| 12      | 2     | 7           | 63.1             | 1671                   | -                      | 9.458102       |                         |
| 13      | 2     | 7           | 91.1             | 1535                   | -                      | 10.032289      |                         |
| 14      | 3     | 7           | 76.8             | 1114                   | 1357                   | 11.204547      |                         |
| 15      | 1     | 7           | 99.4             | -                      | -                      | 11.842011      |                         |

## Bin5 Statistics 7

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 7           | 71.7             | 1161                   | -                      | 0.225851       | 1                       |
| 1       | 3     | 7           | 93.4             | 1109                   | 1615                   | 0.991666       |                         |
| 2       | 1     | 7           | 68.3             | -                      | -                      | 1.375625       |                         |
| 3       | 2     | 7           | 64.3             | 1381                   | -                      | 2.247808       |                         |
| 4       | 1     | 7           | 61.5             | -                      | -                      | 3.31562        |                         |
| 5       | 2     | 7           | 78.2             | 1998                   | -                      | 3.40882        |                         |
| 6       | 2     | 7           | 91.9             | 1176                   | -                      | 4.252606       |                         |
| 7       | 3     | 7           | 71               | 1686                   | 1078                   | 4.729767       |                         |
| 8       | 2     | 7           | 84.5             | 1692                   | -                      | 5.536648       |                         |
| 9       | 3     | 7           | 97.8             | 1731                   | 1586                   | 6.595004       |                         |
| 10      | 3     | 7           | 70               | 1669                   | 1532                   | 7.289158       |                         |
| 11      | 2     | 7           | 89.7             | 1903                   | -                      | 7.817995       |                         |
| 12      | 2     | 7           | 88.8             | 1209                   | -                      | 8.016302       |                         |
| 13      | 1     | 7           | 81.5             | -                      | -                      | 8.8859         |                         |
| 14      | 1     | 7           | 76.2             | -                      | -                      | 9.404634       |                         |
| 15      | 1     | 7           | 53.8             | -                      | -                      | 10.187971      |                         |
| 16      | 3     | 7           | 61               | 1407                   | 1726                   | 10.9034        |                         |
| 17      | 3     | 7           | 76.9             | 1902                   | 1885                   | 11.473659      |                         |

## 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     | 12          | 99               | -                      | -                      | 0.53781        | 1                       |
| 1       | 2     | 12          | 78.4             | 1851                   | -                      | 1.187687       |                         |
| 2       | 2     | 12          | 75.4             | 1453                   | -                      | 1.868509       |                         |
| 3       | 2     | 12          | 69.7             | 1113                   | -                      | 3.280452       |                         |
| 4       | 1     | 12          | 62.9             | -                      | -                      | 3.945355       |                         |
| 5       | 3     | 12          | 92.3             | 1997                   | 1349                   | 4.318807       |                         |
| 6       | 2     | 12          | 69.2             | 1977                   | -                      | 5.665778       |                         |
| 7       | 2     | 12          | 68.7             | 1004                   | -                      | 6.053673       |                         |
| 8       | 3     | 12          | 74.1             | 1858                   | 1334                   | 7.476466       |                         |
| 9       | 2     | 12          | 62.6             | 1929                   | -                      | 8.476696       |                         |
| 10      | 2     | 12          | 66.2             | 1488                   | -                      | 8.762533       |                         |
| 11      | 2     | 12          | 79               | 1650                   | -                      | 9.475931       |                         |
| 12      | 1     | 12          | 87.1             | -                      | -                      | 10.328637      |                         |
| 13      | 3     | 12          | 63.2             | 1809                   | 1729                   | 11.297774      |                         |

## 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     | 7           | 68.5             | 1624                   | 1051                   | 0.211599       | 1                       |
| 1       | 2     | 7           | 66.1             | 1168                   | -                      | 1.128935       |                         |
| 2       | 2     | 7           | 70.3             | 1612                   | -                      | 1.438218       |                         |
| 3       | 1     | 7           | 77.7             | -                      | -                      | 2.412363       |                         |
| 4       | 1     | 7           | 82.1             | -                      | -                      | 3.211383       |                         |
| 5       | 2     | 7           | 59.7             | 1049                   | -                      | 3.649465       |                         |
| 6       | 2     | 7           | 98.3             | 1958                   | -                      | 4.562795       |                         |
| 7       | 3     | 7           | 94.1             | 1120                   | 1670                   | 4.920099       |                         |
| 8       | 3     | 7           | 96.4             | 1903                   | 1357                   | 5.366277       |                         |
| 9       | 2     | 7           | 93.8             | 1258                   | -                      | 6.206677       |                         |
| 10      | 3     | 7           | 85               | 1180                   | 1578                   | 6.76659        |                         |
| 11      | 3     | 7           | 58.8             | 1930                   | 1195                   | 7.556918       |                         |
| 12      | 1     | 7           | 78.5             | -                      | -                      | 8.11389        |                         |
| 13      | 3     | 7           | 81.4             | 1014                   | 1713                   | 9.092645       |                         |
| 14      | 2     | 7           | 80.4             | 1107                   | -                      | 9.492243       |                         |
| 15      | 1     | 7           | 92.2             | -                      | -                      | 10.357938      |                         |
| 16      | 2     | 7           | 89.8             | 1924                   | -                      | 11.067335      |                         |
| 17      | 2     | 7           | 53.2             | 1702                   | -                      | 11.761178      |                         |

## Bin5 Statistics 10

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 10          | 94.2             | 1820                   | 1480                   | 0.412986       | 1                       |
| 1       | 1     | 10          | 83.1             | -                      | -                      | 1.453073       |                         |
| 2       | 2     | 10          | 94.8             | 1006                   | -                      | 2.499227       |                         |
| 3       | 3     | 10          | 58.1             | 1277                   | 1482                   | 3.315416       |                         |
| 4       | 3     | 10          | 65.3             | 1900                   | 1829                   | 4.624999       |                         |
| 5       | 3     | 10          | 75.6             | 1923                   | 1170                   | 5.052195       |                         |
| 6       | 1     | 10          | 60.9             | -                      | -                      | 6.597457       |                         |
| 7       | 2     | 10          | 96.4             | 1067                   | -                      | 7.184771       |                         |
| 8       | 1     | 10          | 74.1             | -                      | -                      | 8.474441       |                         |
| 9       | 3     | 10          | 84.6             | 1846                   | 1353                   | 9.86964        |                         |
| 10      | 2     | 10          | 61               | 1830                   | -                      | 10.805108      |                         |
| 11      | 3     | 10          | 65.2             | 1826                   | 1414                   | 11.549906      |                         |

## 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           | 54.6             | 1705                   | -                      | 0.155168       | 1                       |
| 1       | 2     | 9           | 61.4             | 1783                   | -                      | 1.487375       |                         |
| 2       | 2     | 9           | 64               | 1724                   | -                      | 1.824346       |                         |
| 3       | 2     | 9           | 58               | 1318                   | -                      | 2.711153       |                         |
| 4       | 3     | 9           | 83.3             | 1156                   | 1960                   | 3.605462       |                         |
| 5       | 2     | 9           | 50.6             | 1836                   | -                      | 4.242809       |                         |
| 6       | 3     | 9           | 51.9             | 1215                   | 1551                   | 5.140724       |                         |
| 7       | 3     | 9           | 86.9             | 1013                   | 1154                   | 5.673453       |                         |
| 8       | 2     | 9           | 75.3             | 1867                   | -                      | 6.920018       |                         |
| 9       | 2     | 9           | 91.9             | 1361                   | -                      | 7.699955       |                         |
| 10      | 2     | 9           | 85.3             | 1872                   | -                      | 8.509863       |                         |
| 11      | 2     | 9           | 55.4             | 1818                   | -                      | 9.223678       |                         |
| 12      | 2     | 9           | 72.1             | 1766                   | -                      | 9.859836       |                         |
| 13      | 3     | 9           | 80.2             | 1507                   | 1737                   | 10.932316      |                         |
| 14      | 1     | 9           | 68.8             | -                      | -                      | 11.628051      |                         |

## Bin5 Statistics 12

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 18          | 72.9             | 1428                   | -                      | 0.503522       | 1                       |
| 1       | 1     | 18          | 72.8             | -                      | -                      | 1.368799       |                         |
| 2       | 3     | 18          | 75.9             | 1770                   | 1184                   | 2.23069        |                         |
| 3       | 1     | 18          | 54.1             | -                      | -                      | 2.547149       |                         |
| 4       | 2     | 18          | 85.4             | 1293                   | -                      | 3.456546       |                         |
| 5       | 1     | 18          | 94.8             | -                      | -                      | 3.831761       |                         |
| 6       | 2     | 18          | 57.4             | 1674                   | -                      | 5.053321       |                         |
| 7       | 2     | 18          | 65               | 1097                   | -                      | 5.278423       |                         |
| 8       | 1     | 18          | 80.4             | -                      | -                      | 6.456993       |                         |
| 9       | 2     | 18          | 72.9             | 1999                   | -                      | 7.043856       |                         |
| 10      | 1     | 18          | 74.7             | -                      | -                      | 8.183234       |                         |
| 11      | 1     | 18          | 61               | -                      | -                      | 8.372653       |                         |
| 12      | 1     | 18          | 89.1             | -                      | -                      | 9.596823       |                         |
| 13      | 1     | 18          | 96.7             | -                      | -                      | 10.393953      |                         |
| 14      | 2     | 18          | 83.7             | 1326                   | -                      | 10.926154      |                         |
| 15      | 2     | 18          | 71.2             | 1204                   | -                      | 11.680748      |                         |

## 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           | 87.5             | -                      | -                      | 0.504809       | 1                       |
| 1       | 2     | 9           | 53.4             | 1091                   | -                      | 0.691739       |                         |
| 2       | 2     | 9           | 54.7             | 1912                   | -                      | 1.90698        |                         |
| 3       | 2     | 9           | 95.7             | 1950                   | -                      | 2.260278       |                         |
| 4       | 1     | 9           | 82.1             | -                      | -                      | 3.292747       |                         |
| 5       | 2     | 9           | 80.5             | 1948                   | -                      | 3.568298       |                         |
| 6       | 2     | 9           | 53.7             | 1193                   | -                      | 4.569824       |                         |
| 7       | 2     | 9           | 74               | 1998                   | -                      | 5.249629       |                         |
| 8       | 2     | 9           | 85               | 1480                   | -                      | 5.67833        |                         |
| 9       | 2     | 9           | 69.9             | 1671                   | -                      | 6.50869        |                         |
| 10      | 3     | 9           | 83.2             | 1410                   | 1802                   | 7.229322       |                         |
| 11      | 2     | 9           | 87               | 1466                   | -                      | 7.640344       |                         |
| 12      | 1     | 9           | 65.4             | -                      | -                      | 8.195981       |                         |
| 13      | 3     | 9           | 81.9             | 1384                   | 1907                   | 9.30953        |                         |
| 14      | 2     | 9           | 65.1             | 1310                   | -                      | 9.561274       |                         |
| 15      | 3     | 9           | 71.9             | 1001                   | 1626                   | 10.654556      |                         |
| 16      | 2     | 9           | 76.3             | 1988                   | -                      | 10.925519      |                         |
| 17      | 1     | 9           | 95.2             | -                      | -                      | 11.881646      |                         |

## 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     | 9           | 90.1             | -                      | -                      | 0.55668        | 1                       |
| 1       | 3     | 9           | 77.8             | 1177                   | 1174                   | 0.736337       |                         |
| 2       | 2     | 9           | 64.4             | 1254                   | -                      | 1.545169       |                         |
| 3       | 1     | 9           | 96.4             | -                      | -                      | 2.313323       |                         |
| 4       | 1     | 9           | 62.8             | -                      | -                      | 2.488719       |                         |
| 5       | 3     | 9           | 91.4             | 1997                   | 1909                   | 3.446937       |                         |
| 6       | 2     | 9           | 57.2             | 1987                   | -                      | 4.05733        |                         |
| 7       | 2     | 9           | 97.6             | 1013                   | -                      | 4.544639       |                         |
| 8       | 2     | 9           | 67.2             | 1315                   | -                      | 5.06272        |                         |
| 9       | 2     | 9           | 66.4             | 1959                   | -                      | 5.475769       |                         |
| 10      | 2     | 9           | 67               | 1196                   | -                      | 6.553943       |                         |
| 11      | 1     | 9           | 58.6             | -                      | -                      | 6.867909       |                         |
| 12      | 1     | 9           | 97               | -                      | -                      | 7.60392        |                         |
| 13      | 2     | 9           | 97.2             | 1614                   | -                      | 8.139956       |                         |
| 14      | 3     | 9           | 90.4             | 1322                   | 1488                   | 8.83326        |                         |
| 15      | 2     | 9           | 50.2             | 1645                   | -                      | 9.105959       |                         |
| 16      | 3     | 9           | 69.8             | 1972                   | 1262                   | 9.885528       |                         |
| 17      | 2     | 9           | 83.1             | 1094                   | -                      | 10.783884      |                         |
| 18      | 2     | 9           | 73.7             | 1499                   | -                      | 11.117482      |                         |
| 19      | 3     | 9           | 88               | 1882                   | 1881                   | 11.425883      |                         |

## Bin5 Statistics 15

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 13          | 66.6             | -                      | -                      | 0.663913       | 1                       |
| 1       | 1     | 13          | 73.8             | -                      | -                      | 1.042842       |                         |
| 2       | 1     | 13          | 53.6             | -                      | -                      | 1.859052       |                         |
| 3       | 1     | 13          | 88.8             | -                      | -                      | 2.264826       |                         |
| 4       | 2     | 13          | 74.6             | 1589                   | -                      | 3.134987       |                         |
| 5       | 2     | 13          | 51.3             | 1553                   | -                      | 3.969384       |                         |
| 6       | 3     | 13          | 83.1             | 1619                   | 1187                   | 4.73546        |                         |
| 7       | 2     | 13          | 85.8             | 1560                   | -                      | 5.588787       |                         |
| 8       | 2     | 13          | 75.2             | 1548                   | -                      | 6.390441       |                         |
| 9       | 1     | 13          | 62.2             | -                      | -                      | 7.272434       |                         |
| 10      | 1     | 13          | 83.9             | -                      | -                      | 8.182116       |                         |
| 11      | 2     | 13          | 89.2             | 1513                   | -                      | 8.880729       |                         |
| 12      | 1     | 13          | 50.1             | -                      | -                      | 9.234268       |                         |
| 13      | 1     | 13          | 82.4             | -                      | -                      | 10.337186      |                         |
| 14      | 2     | 13          | 85.8             | 1015                   | -                      | 10.891909      |                         |
| 15      | 2     | 13          | 78.9             | 1471                   | -                      | 11.289525      |                         |

## 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          | 98.3             | 1845                   | 1411                   | 0.636684       | 1                       |
| 1       | 1     | 17          | 71.3             | -                      | -                      | 1.250548       |                         |
| 2       | 2     | 17          | 57.1             | 1807                   | -                      | 2.105997       |                         |
| 3       | 1     | 17          | 99.4             | -                      | -                      | 2.759252       |                         |
| 4       | 3     | 17          | 62.8             | 1216                   | 1714                   | 3.032525       |                         |
| 5       | 3     | 17          | 81.8             | 1874                   | 1210                   | 4.05267        |                         |
| 6       | 3     | 17          | 75.3             | 1903                   | 1620                   | 4.798565       |                         |
| 7       | 1     | 17          | 62.9             | -                      | -                      | 5.490051       |                         |
| 8       | 1     | 17          | 79.6             | -                      | -                      | 6.628919       |                         |
| 9       | 2     | 17          | 63.3             | 1666                   | -                      | 7.400247       |                         |
| 10      | 1     | 17          | 70.9             | -                      | -                      | 7.759872       |                         |
| 11      | 1     | 17          | 70.9             | -                      | -                      | 8.703654       |                         |
| 12      | 3     | 17          | 80.6             | 1346                   | 1627                   | 9.451158       |                         |
| 13      | 1     | 17          | 85.1             | -                      | -                      | 10.210244      |                         |
| 14      | 1     | 17          | 66               | -                      | -                      | 11.027793      |                         |
| 15      | 2     | 17          | 73.5             | 1926                   | -                      | 11.628338      |                         |

## 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     | 7           | 78.6             | 1986                   | -                      | 0.099321       | 1                       |
| 1       | 1     | 7           | 83.6             | -                      | -                      | 1.161251       |                         |
| 2       | 1     | 7           | 90.9             | -                      | -                      | 2.641266       |                         |
| 3       | 2     | 7           | 82.3             | 1081                   | -                      | 3.25231        |                         |
| 4       | 3     | 7           | 86.9             | 1561                   | 1500                   | 4.417535       |                         |
| 5       | 3     | 7           | 58.8             | 1360                   | 1831                   | 5.060798       |                         |
| 6       | 2     | 7           | 55.2             | 1481                   | -                      | 5.809726       |                         |
| 7       | 3     | 7           | 65.3             | 1210                   | 1042                   | 6.888049       |                         |
| 8       | 3     | 7           | 69.6             | 1534                   | 1855                   | 7.494367       |                         |
| 9       | 2     | 7           | 93.6             | 1823                   | -                      | 8.522076       |                         |
| 10      | 1     | 7           | 83.7             | -                      | -                      | 10.036343      |                         |
| 11      | 1     | 7           | 98.6             | -                      | -                      | 10.412528      |                         |
| 12      | 2     | 7           | 98               | 1278                   | -                      | 11.504231      |                         |

## 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     | 14          | 75.1             | 1047                   | -                      | 0.380997       | 1                       |
| 1       | 1     | 14          | 77.5             | -                      | -                      | 1.32073        |                         |
| 2       | 1     | 14          | 83.5             | -                      | -                      | 2.570575       |                         |
| 3       | 3     | 14          | 97.4             | 1712                   | 1262                   | 4.022241       |                         |
| 4       | 2     | 14          | 71.9             | 1476                   | -                      | 5.28152        |                         |
| 5       | 3     | 14          | 84.2             | 1971                   | 1045                   | 6.179593       |                         |
| 6       | 2     | 14          | 81.9             | 1857                   | -                      | 7.38732        |                         |
| 7       | 2     | 14          | 71.7             | 1709                   | -                      | 9.182189       |                         |
| 8       | 3     | 14          | 76.8             | 1798                   | 1928                   | 10.523947      |                         |
| 9       | 1     | 14          | 93               | -                      | -                      | 11.732149      |                         |

## Bin5 Statistics 19

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 8           | 97               | 1868                   | -                      | 0.958437       | 1                       |
| 1       | 2     | 8           | 61.5             | 1614                   | -                      | 1.117207       |                         |
| 2       | 2     | 8           | 88               | 1472                   | -                      | 2.107765       |                         |
| 3       | 2     | 8           | 68.8             | 1879                   | -                      | 3.276013       |                         |
| 4       | 2     | 8           | 96.1             | 1848                   | -                      | 4.487001       |                         |
| 5       | 2     | 8           | 72.3             | 1684                   | -                      | 5.580765       |                         |
| 6       | 2     | 8           | 86.8             | 1004                   | -                      | 6.101831       |                         |
| 7       | 2     | 8           | 74.7             | 1760                   | -                      | 7.667982       |                         |
| 8       | 3     | 8           | 61.8             | 1397                   | 1391                   | 8.61316        |                         |
| 9       | 2     | 8           | 86.3             | 1915                   | -                      | 9.169269       |                         |
| 10      | 2     | 8           | 77.3             | 1848                   | -                      | 10.875173      |                         |
| 11      | 3     | 8           | 60.7             | 1137                   | 1112                   | 11.923401      |                         |

## 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     | 14          | 82.8             | -                      | -                      | 0.138913       | 1                       |
| 1       | 2     | 14          | 68.6             | 1005                   | -                      | 1.094014       |                         |
| 2       | 2     | 14          | 85.6             | 1756                   | -                      | 2.683222       |                         |
| 3       | 2     | 14          | 56.7             | 1177                   | -                      | 3.315569       |                         |
| 4       | 3     | 14          | 56.7             | 1358                   | 1119                   | 4.277889       |                         |
| 5       | 1     | 14          | 57.8             | -                      | -                      | 5.508265       |                         |
| 6       | 2     | 14          | 63.8             | 1016                   | -                      | 6.113072       |                         |
| 7       | 1     | 14          | 83.5             | -                      | -                      | 6.830468       |                         |
| 8       | 2     | 14          | 67.1             | 1393                   | -                      | 7.466208       |                         |
| 9       | 2     | 14          | 86               | 1451                   | -                      | 9.100178       |                         |
| 10      | 2     | 14          | 59               | 1418                   | -                      | 9.505631       |                         |
| 11      | 2     | 14          | 71.4             | 1977                   | -                      | 10.215613      |                         |
| 12      | 1     | 14          | 82.2             | -                      | -                      | 11.761845      |                         |

## 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     | 8           | 69               | 1236                   | -                      | 0.091493       | 1                       |
| 1       | 3     | 8           | 69.7             | 1005                   | 1717                   | 1.251086       |                         |
| 2       | 2     | 8           | 78.7             | 1321                   | -                      | 1.436773       |                         |
| 3       | 3     | 8           | 56.8             | 1196                   | 1900                   | 2.179157       |                         |
| 4       | 2     | 8           | 58.7             | 1147                   | -                      | 3.154826       |                         |
| 5       | 1     | 8           | 90.1             | -                      | -                      | 3.587391       |                         |
| 6       | 1     | 8           | 58.8             | -                      | -                      | 4.410326       |                         |
| 7       | 1     | 8           | 91.1             | -                      | -                      | 5.559547       |                         |
| 8       | 2     | 8           | 99.1             | 1238                   | -                      | 6.0752         |                         |
| 9       | 2     | 8           | 97               | 1067                   | -                      | 6.508668       |                         |
| 10      | 1     | 8           | 86.8             | -                      | -                      | 7.350459       |                         |
| 11      | 2     | 8           | 99.1             | 1043                   | -                      | 8.321917       |                         |
| 12      | 1     | 8           | 91               | -                      | -                      | 8.90117        |                         |
| 13      | 1     | 8           | 54.8             | -                      | -                      | 9.401961       |                         |
| 14      | 3     | 8           | 74.7             | 1624                   | 1008                   | 10.164413      |                         |
| 15      | 2     | 8           | 85.8             | 1781                   | -                      | 10.678953      |                         |
| 16      | 1     | 8           | 64.7             | -                      | -                      | 11.471852      |                         |

## 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     | 9           | 94.4             | 1863                   | -                      | 0.577027       | 1                       |
| 1       | 3     | 9           | 70.1             | 1731                   | 1195                   | 1.074062       |                         |
| 2       | 2     | 9           | 79.2             | 1056                   | -                      | 2.158238       |                         |
| 3       | 2     | 9           | 97.4             | 1911                   | -                      | 2.594681       |                         |
| 4       | 3     | 9           | 85               | 1770                   | 1675                   | 4.228149       |                         |
| 5       | 1     | 9           | 66.3             | -                      | -                      | 4.746838       |                         |
| 6       | 1     | 9           | 64.7             | -                      | -                      | 5.444374       |                         |
| 7       | 2     | 9           | 56.7             | 1925                   | -                      | 6.743305       |                         |
| 8       | 2     | 9           | 83               | 1021                   | -                      | 7.376956       |                         |
| 9       | 2     | 9           | 77.5             | 1818                   | -                      | 8.315151       |                         |
| 10      | 1     | 9           | 60.4             | -                      | -                      | 9.244872       |                         |
| 11      | 3     | 9           | 94.5             | 1394                   | 1184                   | 10.012297      |                         |
| 12      | 2     | 9           | 83.4             | 1074                   | -                      | 11.089832      |                         |
| 13      | 2     | 9           | 57.2             | 1105                   | -                      | 11.563281      |                         |

## Bin5 Statistics 23

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 7           | 59.6             | -                      | -                      | 0.036798       | 1                       |
| 1       | 1     | 7           | 90.7             | -                      | -                      | 0.855383       |                         |
| 2       | 2     | 7           | 91.7             | 1459                   | -                      | 1.756261       |                         |
| 3       | 3     | 7           | 90.9             | 1746                   | 1486                   | 2.512053       |                         |
| 4       | 2     | 7           | 52               | 1904                   | -                      | 2.585713       |                         |
| 5       | 2     | 7           | 70.6             | 1010                   | -                      | 3.26234        |                         |
| 6       | 3     | 7           | 54               | 1932                   | 1056                   | 4.352825       |                         |
| 7       | 1     | 7           | 90.9             | -                      | -                      | 4.78654        |                         |
| 8       | 3     | 7           | 76.9             | 1064                   | 1568                   | 5.213578       |                         |
| 9       | 3     | 7           | 58.2             | 1047                   | 1344                   | 5.804042       |                         |
| 10      | 3     | 7           | 95.3             | 1645                   | 1886                   | 6.659516       |                         |
| 11      | 2     | 7           | 59.5             | 1702                   | -                      | 7.528657       |                         |
| 12      | 2     | 7           | 78.3             | 1450                   | -                      | 7.737916       |                         |
| 13      | 2     | 7           | 74.3             | 1772                   | -                      | 8.525468       |                         |
| 14      | 2     | 7           | 64.8             | 1142                   | -                      | 9.364455       |                         |
| 15      | 3     | 7           | 63.2             | 1934                   | 1314                   | 10.005293      |                         |
| 16      | 2     | 7           | 70.7             | 1314                   | -                      | 10.245014      |                         |
| 17      | 2     | 7           | 73.9             | 1974                   | -                      | 10.975691      |                         |
| 18      | 3     | 7           | 99.7             | 1966                   | 1163                   | 11.981049      |                         |

## Bin5 Statistics 24

| Trial # | Pulse | Chirp (MHz) | Pulse Width (uS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 17          | 97.5             | 1931                   | -                      | 0.325761       | 1                       |
| 1       | 3     | 17          | 95.5             | 1882                   | 1947                   | 1.278034       |                         |
| 2       | 2     | 17          | 57.9             | 1242                   | -                      | 2.164612       |                         |
| 3       | 2     | 17          | 75.3             | 1732                   | -                      | 2.417492       |                         |
| 4       | 3     | 17          | 50.9             | 1539                   | 1156                   | 3.705897       |                         |
| 5       | 2     | 17          | 78.7             | 1971                   | -                      | 4.575799       |                         |
| 6       | 2     | 17          | 83.3             | 1798                   | -                      | 5.3664         |                         |
| 7       | 2     | 17          | 65.1             | 1763                   | -                      | 6.120158       |                         |
| 8       | 2     | 17          | 68.4             | 1199                   | -                      | 6.49988        |                         |
| 9       | 2     | 17          | 93.3             | 1215                   | -                      | 7.626098       |                         |
| 10      | 2     | 17          | 55.1             | 1730                   | -                      | 8.273104       |                         |
| 11      | 2     | 17          | 68.3             | 1436                   | -                      | 8.956062       |                         |
| 12      | 1     | 17          | 71.8             | -                      | -                      | 9.889299       |                         |
| 13      | 2     | 17          | 53.6             | 1105                   | -                      | 11.18878       |                         |
| 14      | 2     | 17          | 67.5             | 1604                   | -                      | 11.655484      |                         |

## Bin5 Statistics 25

| Trial # | Pulse | Chirp (MHz) | Pulse Width (uS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 12          | 56               | 1229                   | -                      | 0.333908       | 1                       |
| 1       | 2     | 12          | 56.8             | 1781                   | -                      | 1.365731       |                         |
| 2       | 2     | 12          | 64.4             | 1823                   | -                      | 2.125698       |                         |
| 3       | 2     | 12          | 69.3             | 1374                   | -                      | 3.450643       |                         |
| 4       | 2     | 12          | 57.9             | 1177                   | -                      | 4.68305        |                         |
| 5       | 1     | 12          | 53.4             | -                      | -                      | 5.778729       |                         |
| 6       | 3     | 12          | 59.1             | 1495                   | 1285                   | 6.858263       |                         |
| 7       | 3     | 12          | 96.6             | 1234                   | 1239                   | 7.416826       |                         |
| 8       | 3     | 12          | 82.1             | 1442                   | 1251                   | 8.942677       |                         |
| 9       | 1     | 12          | 61.5             | -                      | -                      | 9.516117       |                         |
| 10      | 2     | 12          | 50.4             | 1591                   | -                      | 10.878074      |                         |
| 11      | 1     | 12          | 55.3             | -                      | -                      | 11.743035      |                         |

## 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     | 7           | 93.5             | 1751                   | -                      | 0.611686       | 1                       |
| 1       | 2     | 7           | 53.5             | 1162                   | -                      | 1.457979       |                         |
| 2       | 2     | 7           | 85.5             | 1765                   | -                      | 2.990119       |                         |
| 3       | 1     | 7           | 81.8             | -                      | -                      | 4.119587       |                         |
| 4       | 1     | 7           | 68.3             | -                      | -                      | 6.57954        |                         |
| 5       | 3     | 7           | 58.8             | 1416                   | 1015                   | 7.578165       |                         |
| 6       | 2     | 7           | 51.8             | 1048                   | -                      | 9.2935         |                         |
| 7       | 3     | 7           | 75.3             | 1857                   | 1940                   | 9.783523       |                         |
| 8       | 1     | 7           | 90.5             | -                      | -                      | 11.243034      |                         |

## 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     | 16          | 56.4             | 1751                   | -                      | 0.680985       | 1                       |
| 1       | 2     | 16          | 57.1             | 1336                   | -                      | 0.938258       |                         |
| 2       | 2     | 16          | 62               | 1870                   | -                      | 2.072947       |                         |
| 3       | 1     | 16          | 57.6             | -                      | -                      | 2.739003       |                         |
| 4       | 3     | 16          | 85.2             | 1925                   | 1568                   | 3.673673       |                         |
| 5       | 2     | 16          | 95.2             | 1609                   | -                      | 4.144456       |                         |
| 6       | 2     | 16          | 99.7             | 1065                   | -                      | 5.061007       |                         |
| 7       | 2     | 16          | 80.7             | 1338                   | -                      | 5.960358       |                         |
| 8       | 1     | 16          | 91.9             | -                      | -                      | 6.340649       |                         |
| 9       | 1     | 16          | 58.8             | -                      | -                      | 6.851644       |                         |
| 10      | 2     | 16          | 50.2             | 1741                   | -                      | 8.16749        |                         |
| 11      | 3     | 16          | 75.3             | 1656                   | 1720                   | 8.850863       |                         |
| 12      | 2     | 16          | 63.8             | 1109                   | -                      | 9.716714       |                         |
| 13      | 3     | 16          | 74.1             | 1138                   | 1604                   | 10.309691      |                         |
| 14      | 2     | 16          | 93.9             | 1043                   | -                      | 11.010538      |                         |
| 15      | 2     | 16          | 51.4             | 1520                   | -                      | 11.313949      |                         |

## Bin5 Statistics 28

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 19          | 76.4             | -                      | -                      | 1.086719       | 1                       |
| 1       | 2     | 19          | 90.3             | 1065                   | -                      | 1.825475       |                         |
| 2       | 3     | 19          | 70               | 1025                   | 1923                   | 4.305294       |                         |
| 3       | 1     | 19          | 65.4             | -                      | -                      | 5.177934       |                         |
| 4       | 2     | 19          | 63.1             | 1350                   | -                      | 6.231612       |                         |
| 5       | 1     | 19          | 51               | -                      | -                      | 7.850211       |                         |
| 6       | 2     | 19          | 68               | 1527                   | -                      | 10.254116      |                         |
| 7       | 2     | 19          | 71.1             | 1340                   | -                      | 11.835676      |                         |

## 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     | 15          | 95.3             | 1195                   | 1222                   | 0.514158       | 1                       |
| 1       | 2     | 15          | 64.9             | 1762                   | -                      | 1.319447       |                         |
| 2       | 1     | 15          | 85.1             | -                      | -                      | 1.869285       |                         |
| 3       | 3     | 15          | 65.2             | 1342                   | 1763                   | 2.364921       |                         |
| 4       | 3     | 15          | 71.5             | 1584                   | 1352                   | 3.031422       |                         |
| 5       | 3     | 15          | 62.4             | 1739                   | 1481                   | 3.985599       |                         |
| 6       | 1     | 15          | 73.3             | -                      | -                      | 4.900609       |                         |
| 7       | 2     | 15          | 55.1             | 1681                   | -                      | 5.068397       |                         |
| 8       | 1     | 15          | 70.8             | -                      | -                      | 6.30778        |                         |
| 9       | 3     | 15          | 53.8             | 1489                   | 1990                   | 7.030541       |                         |
| 10      | 2     | 15          | 66.9             | 1664                   | -                      | 7.29788        |                         |
| 11      | 3     | 15          | 59.5             | 1552                   | 1315                   | 7.986822       |                         |
| 12      | 2     | 15          | 65.6             | 1249                   | -                      | 9.11631        |                         |
| 13      | 2     | 15          | 59.5             | 1386                   | -                      | 9.735546       |                         |
| 14      | 2     | 15          | 67.6             | 1923                   | -                      | 10.221622      |                         |
| 15      | 2     | 15          | 59.4             | 1174                   | -                      | 10.899084      |                         |
| 16      | 2     | 15          | 94.6             | 1486                   | -                      | 11.910534      |                         |

## 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     | 5           | 68.5             | 1392                   | -                      | 0.105917       | 1                       |
| 1       | 2     | 5           | 91.4             | 1646                   | -                      | 1.30152        |                         |
| 2       | 2     | 5           | 79.3             | 1262                   | -                      | 1.927387       |                         |
| 3       | 1     | 5           | 85.7             | -                      | -                      | 3.623599       |                         |
| 4       | 3     | 5           | 56.4             | 1863                   | 1208                   | 3.888866       |                         |
| 5       | 2     | 5           | 58.1             | 1066                   | -                      | 4.63592        |                         |
| 6       | 2     | 5           | 52               | 1873                   | -                      | 5.795781       |                         |
| 7       | 2     | 5           | 95.5             | 1433                   | -                      | 7.155794       |                         |
| 8       | 2     | 5           | 70.2             | 1611                   | -                      | 7.773385       |                         |
| 9       | 1     | 5           | 89.7             | -                      | -                      | 9.141432       |                         |
| 10      | 2     | 5           | 97.1             | 1304                   | -                      | 9.9997         |                         |
| 11      | 2     | 5           | 77.7             | 1909                   | -                      | 10.185147      |                         |
| 12      | 3     | 5           | 77.5             | 1313                   | 1223                   | 11.919517      |                         |

**Table-6 Radar Type 6 Statistical Performance**

| <b>Trial #</b> | <b>Fc (MHz)</b> | <b>Pulse /Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> | <b>Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|-----------------|---------------------|-------------------------|-----------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 5510            | 9                   | 1                       | 333             | 1                              | 5700.0, 5308.0, 5704.0, 5522.0, 5254.0, 5417.0, 5286.0, 5675.0, 5360.0, 5525.0, 5598.0, 5285.0, 5444.0, 5332.0, 5694.0, 5606.0, 5351.0, 5307.0, 5664.0, 5318.0, 5290.0, 5370.0, 5305.0, 5443.0, 5554.0, 5424.0, 5575.0, 5347.0, 5413.0, 5662.0, 5379.0, 5476.0, 5302.0, 5538.0, 5546.0, 5480.0, 5673.0, 5429.0, 5688.0, 5645.0, 5569.0, 5665.0, 5584.0, 5256.0, 5698.0, 5287.0, 5464.0, 5382.0, 5697.0, 5325.0, 5519.0, 5468.0, 5639.0, 5255.0, 5615.0, 5711.0, 5637.0, 5506.0, 5315.0, 5541.0, 5442.0, 5707.0, 5428.0, 5625.0, 5465.0, 5646.0, 5321.0, 5531.0, 5583.0, 5511.0, 5384.0, 5708.0, 5272.0, 5450.0, 5622.0, 5369.0, 5703.0, 5559.0, 5685.0, 5512.0, 5684.0, 5654.0, 5557.0, 5669.0, 5354.0, 5406.0, 5403.0, 5655.0, 5627.0, 5545.0, 5601.0, 5269.0, 5550.0, 5604.0, 5473.0, 5563.0, 5579.0, 5586.0, 5270.0, 5643.0<br>(number of hits: 6) |
| 2              | 5510            | 9                   | 1                       | 333             | 1                              | 5640.0, 5437.0, 5493.0, 5450.0, 5590.0, 5432.0, 5594.0, 5474.0, 5302.0, 5269.0, 5284.0, 5352.0, 5531.0, 5371.0, 5408.0, 5250.0, 5633.0, 5449.0, 5433.0, 5684.0, 5664.0, 5280.0, 5648.0, 5573.0, 5393.0, 5343.0, 5686.0, 5261.0, 5446.0, 5562.0, 5268.0, 5307.0, 5497.0, 5288.0, 5533.0, 5290.0, 5593.0, 5646.0, 5520.0, 5553.0, 5267.0, 5616.0, 5321.0, 5660.0, 5341.0, 5265.0, 5600.0, 5694.0, 5576.0, 5367.0, 5589.0, 5712.0, 5479.0, 5554.0, 5514.0, 5579.0, 5330.0, 5315.0, 5602.0, 5253.0, 5435.0, 5473.0, 5509.0, 5631.0, 5374.0, 5492.0, 5532.0, 5537.0, 5264.0, 5586.0, 5699.0, 5606.0, 5721.0, 5666.0, 5296.0, 5337.0, 5282.0, 5475.0, 5635.0, 5596.0, 5546.0, 5377.0, 5270.0, 5289.0, 5273.0, 5585.0, 5391.0, 5642.0, 5654.0, 5342.0, 5703.0, 5383.0, 5422.0, 5331.0, 5723.0, 5459.0, 5363.0, 5327.0, 5630.0, 5510.0<br>(number of hits: 7) |
| 3              | 5510            | 9                   | 1                       | 333             | 1                              | 5601.0, 5666.0, 5497.0, 5517.0, 5682.0, 5670.0, 5434.0, 5409.0, 5336.0, 5360.0, 5491.0, 5662.0, 5673.0, 5589.0, 5554.0, 5264.0, 5462.0, 5435.0, 5445.0, 5316.0, 5309.0, 5575.0, 5712.0, 5392.0, 5669.0, 5558.0, 5714.0, 5548.0, 5583.0, 5481.0, 5344.0, 5476.0, 5520.0, 5447.0, 5454.0, 5490.0, 5566.0, 5529.0, 5676.0, 5506.0, 5600.0, 5475.0, 5449.0, 5659.0, 5302.0, 5416.0, 5650.0, 5536.0, 5512.0, 5507.0, 5285.0, 5699.0, 5422.0, 5425.0, 5518.0, 5715.0, 5288.0, 5327.0, 5322.0, 5501.0, 5686.0, 5557.0, 5325.0, 5621.0, 5611.0,                                                                                                                                                                                                                                                                                                               |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5591.0, 5495.0, 5496.0, 5502.0, 5523.0, 5307.0, 5708.0, 5671.0, 5377.0, 5380.0, 5356.0, 5486.0, 5414.0, 5615.0, 5329.0, 5390.0, 5692.0, 5287.0, 5363.0, 5582.0, 5720.0, 5315.0, 5664.0, 5610.0, 5297.0, 5503.0, 5648.0, 5424.0, 5299.0, 5401.0, 5376.0, 5267.0, 5511.0, 5695.0, 5678.0<br>(number of hits: 14 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4 | 5510 | 9 | 1 | 333 | 1 | 5445.0, 5314.0, 5453.0, 5556.0, 5268.0, 5716.0, 5539.0, 5463.0, 5692.0, 5678.0, 5342.0, 5308.0, 5256.0, 5376.0, 5387.0, 5474.0, 5366.0, 5339.0, 5409.0, 5668.0, 5433.0, 5583.0, 5432.0, 5560.0, 5384.0, 5439.0, 5580.0, 5681.0, 5296.0, 5694.0, 5647.0, 5705.0, 5721.0, 5333.0, 5686.0, 5356.0, 5496.0, 5273.0, 5530.0, 5404.0, 5538.0, 5637.0, 5491.0, 5609.0, 5660.0, 5663.0, 5389.0, 5298.0, 5431.0, 5418.0, 5406.0, 5326.0, 5403.0, 5379.0, 5466.0, 5257.0, 5685.0, 5565.0, 5391.0, 5553.0, 5362.0, 5544.0, 5614.0, 5402.0, 5328.0, 5605.0, 5606.0, 5662.0, 5521.0, 5329.0, 5479.0, 5382.0, 5429.0, 5604.0, 5360.0, 5578.0, 5455.0, 5337.0, 5492.0, 5378.0, 5449.0, 5290.0, 5383.0, 5327.0, 5364.0, 5519.0, 5654.0, 5709.0, 5489.0, 5608.0, 5607.0, 5708.0, 5286.0, 5359.0, 5675.0, 5532.0, 5505.0, 5450.0, 5653.0, 5558.0<br>(number of hits: 5 ) |
| 5 | 5510 | 9 | 1 | 333 | 1 | 5629.0, 5253.0, 5508.0, 5708.0, 5456.0, 5689.0, 5421.0, 5558.0, 5462.0, 5428.0, 5398.0, 5497.0, 5591.0, 5353.0, 5440.0, 5534.0, 5548.0, 5541.0, 5644.0, 5634.0, 5533.0, 5450.0, 5378.0, 5625.0, 5600.0, 5272.0, 5431.0, 5288.0, 5292.0, 5360.0, 5438.0, 5471.0, 5315.0, 5287.0, 5424.0, 5309.0, 5259.0, 5381.0, 5709.0, 5285.0, 5710.0, 5437.0, 5564.0, 5422.0, 5668.0, 5477.0, 5413.0, 5312.0, 5655.0, 5666.0, 5411.0, 5677.0, 5255.0, 5690.0, 5390.0, 5480.0, 5560.0, 5517.0, 5330.0, 5331.0, 5472.0, 5697.0, 5445.0, 5664.0, 5426.0, 5676.0, 5415.0, 5507.0, 5356.0, 5537.0, 5423.0, 5324.0, 5295.0, 5527.0, 5434.0, 5336.0, 5672.0, 5542.0, 5670.0, 5701.0, 5569.0, 5572.0, 5326.0, 5339.0, 5702.0, 5337.0, 5340.0, 5540.0, 5551.0, 5720.0, 5582.0, 5566.0, 5536.0, 5363.0, 5488.0, 5660.0, 5565.0, 5386.0, 5567.0, 5406.0<br>(number of hits: 5 ) |
| 6 | 5510 | 9 | 1 | 333 | 1 | 5455.0, 5689.0, 5536.0, 5412.0, 5305.0, 5335.0, 5564.0, 5576.0, 5557.0, 5388.0, 5396.0, 5266.0, 5320.0, 5322.0, 5408.0, 5707.0, 5422.0, 5584.0, 5488.0, 5256.0, 5520.0, 5575.0, 5703.0, 5717.0, 5538.0, 5473.0, 5566.0, 5384.0, 5568.0, 5319.0, 5714.0, 5531.0, 5390.0, 5486.0, 5636.0, 5608.0, 5706.0, 5621.0, 5586.0, 5580.0, 5265.0, 5704.0, 5554.0, 5503.0, 5611.0, 5526.0, 5333.0, 5597.0, 5502.0, 5261.0,                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5282.0, 5678.0, 5271.0, 5405.0, 5314.0, 5307.0, 5358.0, 5416.0, 5693.0, 5544.0, 5312.0, 5540.0, 5492.0, 5287.0, 5625.0, 5519.0, 5444.0, 5675.0, 5417.0, 5482.0, 5286.0, 5698.0, 5370.0, 5578.0, 5655.0, 5723.0, 5338.0, 5364.0, 5521.0, 5485.0, 5366.0, 5399.0, 5670.0, 5699.0, 5351.0, 5705.0, 5691.0, 5606.0, 5601.0, 5291.0, 5537.0, 5512.0, 5397.0, 5487.0, 5381.0, 5411.0, 5499.0, 5432.0, 5365.0, 5582.0<br>(number of hits: 9)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7 | 5510 | 9 | 1 | 333 | 1 | 5589.0, 5400.0, 5625.0, 5640.0, 5533.0, 5677.0, 5708.0, 5706.0, 5286.0, 5688.0, 5444.0, 5555.0, 5538.0, 5543.0, 5606.0, 5496.0, 5595.0, 5697.0, 5556.0, 5604.0, 5691.0, 5382.0, 5601.0, 5495.0, 5663.0, 5501.0, 5290.0, 5384.0, 5668.0, 5269.0, 5681.0, 5321.0, 5655.0, 5420.0, 5271.0, 5315.0, 5273.0, 5694.0, 5485.0, 5612.0, 5327.0, 5530.0, 5512.0, 5469.0, 5475.0, 5539.0, 5492.0, 5619.0, 5398.0, 5317.0, 5547.0, 5428.0, 5587.0, 5608.0, 5573.0, 5603.0, 5528.0, 5674.0, 5689.0, 5424.0, 5649.0, 5594.0, 5541.0, 5403.0, 5505.0, 5546.0, 5704.0, 5614.0, 5256.0, 5434.0, 5426.0, 5698.0, 5261.0, 5267.0, 5542.0, 5550.0, 5281.0, 5418.0, 5333.0, 5326.0, 5448.0, 5683.0, 5615.0, 5431.0, 5722.0, 5472.0, 5575.0, 5340.0, 5465.0, 5669.0, 5516.0, 5319.0, 5519.0, 5301.0, 5661.0, 5653.0, 5292.0, 5454.0, 5504.0, 5460.0<br>(number of hits: 9)  |
| 8 | 5510 | 9 | 1 | 333 | 1 | 5383.0, 5307.0, 5641.0, 5406.0, 5711.0, 5464.0, 5545.0, 5588.0, 5595.0, 5439.0, 5576.0, 5498.0, 5527.0, 5535.0, 5404.0, 5261.0, 5505.0, 5348.0, 5421.0, 5495.0, 5429.0, 5273.0, 5586.0, 5254.0, 5476.0, 5616.0, 5621.0, 5359.0, 5338.0, 5252.0, 5581.0, 5492.0, 5665.0, 5521.0, 5424.0, 5319.0, 5327.0, 5666.0, 5264.0, 5655.0, 5290.0, 5679.0, 5716.0, 5706.0, 5617.0, 5699.0, 5379.0, 5557.0, 5503.0, 5282.0, 5469.0, 5656.0, 5339.0, 5367.0, 5519.0, 5582.0, 5279.0, 5313.0, 5548.0, 5614.0, 5295.0, 5710.0, 5551.0, 5318.0, 5481.0, 5669.0, 5430.0, 5719.0, 5685.0, 5609.0, 5353.0, 5304.0, 5435.0, 5363.0, 5368.0, 5487.0, 5560.0, 5433.0, 5695.0, 5532.0, 5678.0, 5467.0, 5262.0, 5672.0, 5450.0, 5462.0, 5714.0, 5434.0, 5717.0, 5515.0, 5437.0, 5300.0, 5377.0, 5584.0, 5357.0, 5531.0, 5517.0, 5473.0, 5602.0, 5266.0<br>(number of hits: 10) |
| 9 | 5510 | 9 | 1 | 333 | 1 | 5296.0, 5706.0, 5722.0, 5495.0, 5584.0, 5384.0, 5449.0, 5250.0, 5326.0, 5604.0, 5683.0, 5460.0, 5676.0, 5550.0, 5386.0, 5663.0, 5637.0, 5513.0, 5329.0, 5665.0, 5276.0, 5411.0, 5719.0, 5563.0, 5694.0, 5378.0, 5469.0, 5564.0, 5578.0, 5374.0, 5558.0, 5487.0, 5459.0, 5678.0, 5568.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5626.0, 5704.0, 5712.0, 5367.0, 5515.0, 5271.0, 5556.0, 5628.0, 5286.0, 5708.0, 5382.0, 5477.0, 5655.0, 5714.0, 5554.0, 5565.0, 5394.0, 5508.0, 5659.0, 5339.0, 5509.0, 5462.0, 5428.0, 5395.0, 5536.0, 5344.0, 5614.0, 5358.0, 5331.0, 5467.0, 5621.0, 5521.0, 5590.0, 5303.0, 5475.0, 5707.0, 5259.0, 5661.0, 5400.0, 5656.0, 5651.0, 5327.0, 5538.0, 5423.0, 5369.0, 5351.0, 5598.0, 5254.0, 5577.0, 5448.0, 5532.0, 5562.0, 5441.0, 5629.0, 5520.0, 5567.0, 5418.0, 5620.0, 5465.0, 5713.0, 5575.0, 5313.0, 5431.0, 5463.0, 5391.0<br>(number of hits: 7)                                                                                                                                                                                                                                                                                         |
| 10 | 5510 | 9 | 1 | 333 | 1 | 5647.0, 5676.0, 5655.0, 5389.0, 5675.0, 5307.0, 5298.0, 5539.0, 5253.0, 5254.0, 5529.0, 5563.0, 5661.0, 5368.0, 5289.0, 5623.0, 5486.0, 5440.0, 5446.0, 5268.0, 5714.0, 5699.0, 5395.0, 5718.0, 5311.0, 5285.0, 5492.0, 5464.0, 5451.0, 5473.0, 5508.0, 5692.0, 5658.0, 5695.0, 5547.0, 5445.0, 5542.0, 5306.0, 5515.0, 5376.0, 5600.0, 5636.0, 5583.0, 5434.0, 5417.0, 5684.0, 5329.0, 5284.0, 5679.0, 5414.0, 5614.0, 5721.0, 5723.0, 5701.0, 5270.0, 5586.0, 5308.0, 5427.0, 5571.0, 5259.0, 5652.0, 5436.0, 5263.0, 5419.0, 5681.0, 5433.0, 5654.0, 5597.0, 5388.0, 5526.0, 5346.0, 5300.0, 5643.0, 5365.0, 5353.0, 5330.0, 5582.0, 5659.0, 5463.0, 5504.0, 5663.0, 5258.0, 5558.0, 5617.0, 5432.0, 5549.0, 5404.0, 5303.0, 5483.0, 5722.0, 5706.0, 5338.0, 5591.0, 5499.0, 5572.0, 5637.0, 5357.0, 5484.0, 5628.0, 5387.0<br>(number of hits: 6) |
| 11 | 5510 | 9 | 1 | 333 | 1 | 5482.0, 5654.0, 5630.0, 5440.0, 5717.0, 5444.0, 5640.0, 5485.0, 5513.0, 5277.0, 5394.0, 5327.0, 5432.0, 5547.0, 5554.0, 5273.0, 5362.0, 5546.0, 5340.0, 5426.0, 5280.0, 5515.0, 5643.0, 5255.0, 5405.0, 5697.0, 5333.0, 5481.0, 5415.0, 5373.0, 5523.0, 5259.0, 5298.0, 5441.0, 5556.0, 5714.0, 5710.0, 5397.0, 5510.0, 5636.0, 5475.0, 5719.0, 5314.0, 5663.0, 5569.0, 5465.0, 5391.0, 5423.0, 5504.0, 5469.0, 5454.0, 5455.0, 5684.0, 5589.0, 5677.0, 5610.0, 5600.0, 5520.0, 5591.0, 5384.0, 5268.0, 5564.0, 5541.0, 5611.0, 5467.0, 5334.0, 5642.0, 5575.0, 5524.0, 5284.0, 5466.0, 5712.0, 5271.0, 5651.0, 5272.0, 5626.0, 5540.0, 5555.0, 5296.0, 5599.0, 5295.0, 5456.0, 5349.0, 5681.0, 5562.0, 5678.0, 5708.0, 5625.0, 5375.0, 5722.0, 5293.0, 5590.0, 5263.0, 5254.0, 5646.0, 5694.0, 5313.0, 5286.0, 5325.0, 5359.0<br>(number of hits: 7) |
| 12 | 5510 | 9 | 1 | 333 | 1 | 5622.0, 5422.0, 5318.0, 5428.0, 5419.0, 5507.0, 5338.0, 5483.0, 5668.0, 5403.0, 5431.0, 5443.0, 5514.0, 5695.0, 5593.0, 5699.0, 5423.0, 5332.0, 5417.0, 5351.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5620.0, 5631.0, 5266.0, 5276.0, 5302.0, 5345.0, 5308.0, 5452.0, 5515.0, 5310.0, 5261.0, 5694.0, 5563.0, 5328.0, 5664.0, 5669.0, 5539.0, 5612.0, 5613.0, 5362.0, 5456.0, 5384.0, 5391.0, 5580.0, 5464.0, 5595.0, 5540.0, 5538.0, 5530.0, 5388.0, 5371.0, 5412.0, 5294.0, 5688.0, 5714.0, 5611.0, 5262.0, 5718.0, 5333.0, 5337.0, 5579.0, 5335.0, 5521.0, 5645.0, 5588.0, 5409.0, 5418.0, 5614.0, 5317.0, 5686.0, 5654.0, 5637.0, 5556.0, 5536.0, 5678.0, 5490.0, 5469.0, 5589.0, 5564.0, 5254.0, 5348.0, 5510.0, 5378.0, 5682.0, 5251.0, 5271.0, 5320.0, 5462.0, 5715.0, 5690.0, 5376.0, 5674.0, 5299.0, 5523.0, 5693.0, 5609.0, 5465.0, 5314.0, 5652.0, 5311.0<br>(number of hits: 6)                                                                                                                                                                 |
| 13 | 5510 | 9 | 1 | 333 | 1 | 5502.0, 5720.0, 5501.0, 5615.0, 5711.0, 5482.0, 5308.0, 5595.0, 5515.0, 5414.0, 5683.0, 5329.0, 5318.0, 5694.0, 5285.0, 5269.0, 5574.0, 5603.0, 5279.0, 5369.0, 5651.0, 5440.0, 5546.0, 5660.0, 5699.0, 5410.0, 5252.0, 5568.0, 5589.0, 5545.0, 5690.0, 5267.0, 5642.0, 5275.0, 5416.0, 5578.0, 5717.0, 5594.0, 5491.0, 5388.0, 5485.0, 5723.0, 5499.0, 5684.0, 5405.0, 5344.0, 5607.0, 5257.0, 5415.0, 5339.0, 5484.0, 5612.0, 5283.0, 5520.0, 5357.0, 5715.0, 5263.0, 5525.0, 5348.0, 5316.0, 5315.0, 5480.0, 5442.0, 5592.0, 5301.0, 5653.0, 5444.0, 5261.0, 5314.0, 5529.0, 5280.0, 5549.0, 5321.0, 5453.0, 5291.0, 5602.0, 5469.0, 5420.0, 5389.0, 5701.0, 5288.0, 5587.0, 5385.0, 5554.0, 5271.0, 5345.0, 5419.0, 5666.0, 5430.0, 5662.0, 5463.0, 5632.0, 5590.0, 5609.0, 5588.0, 5383.0, 5486.0, 5535.0, 5670.0, 5682.0<br>(number of hits: 6) |
| 14 | 5510 | 9 | 1 | 333 | 1 | 5437.0, 5587.0, 5715.0, 5588.0, 5460.0, 5268.0, 5339.0, 5398.0, 5670.0, 5384.0, 5475.0, 5548.0, 5613.0, 5517.0, 5711.0, 5285.0, 5586.0, 5528.0, 5358.0, 5388.0, 5366.0, 5281.0, 5690.0, 5664.0, 5696.0, 5549.0, 5575.0, 5271.0, 5563.0, 5303.0, 5335.0, 5685.0, 5698.0, 5440.0, 5719.0, 5527.0, 5559.0, 5319.0, 5421.0, 5316.0, 5492.0, 5675.0, 5408.0, 5407.0, 5507.0, 5474.0, 5363.0, 5361.0, 5683.0, 5449.0, 5401.0, 5599.0, 5417.0, 5717.0, 5632.0, 5346.0, 5630.0, 5578.0, 5580.0, 5660.0, 5426.0, 5508.0, 5412.0, 5393.0, 5272.0, 5530.0, 5471.0, 5646.0, 5595.0, 5457.0, 5513.0, 5439.0, 5414.0, 5350.0, 5429.0, 5360.0, 5582.0, 5304.0, 5629.0, 5658.0, 5529.0, 5256.0, 5423.0, 5370.0, 5609.0, 5397.0, 5623.0, 5509.0, 5714.0, 5427.0, 5602.0, 5352.0, 5661.0, 5456.0, 5585.0, 5347.0, 5462.0, 5436.0, 5467.0, 5702.0<br>(number of hits: 7) |
| 15 | 5510 | 9 | 1 | 333 | 1 | 5692.0, 5581.0, 5604.0, 5373.0, 5417.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5382.0, 5541.0, 5452.0, 5295.0, 5440.0, 5502.0, 5388.0, 5396.0, 5321.0, 5519.0, 5563.0, 5344.0, 5284.0, 5633.0, 5271.0, 5317.0, 5313.0, 5595.0, 5723.0, 5385.0, 5397.0, 5522.0, 5305.0, 5623.0, 5439.0, 5353.0, 5337.0, 5579.0, 5465.0, 5450.0, 5608.0, 5677.0, 5479.0, 5524.0, 5513.0, 5261.0, 5386.0, 5401.0, 5339.0, 5585.0, 5387.0, 5487.0, 5574.0, 5474.0, 5626.0, 5260.0, 5625.0, 5550.0, 5603.0, 5367.0, 5429.0, 5390.0, 5352.0, 5444.0, 5681.0, 5640.0, 5645.0, 5490.0, 5674.0, 5706.0, 5357.0, 5641.0, 5469.0, 5333.0, 5634.0, 5683.0, 5426.0, 5698.0, 5704.0, 5557.0, 5400.0, 5497.0, 5554.0, 5445.0, 5636.0, 5489.0, 5431.0, 5671.0, 5721.0, 5486.0, 5684.0, 5468.0, 5484.0, 5511.0, 5492.0, 5405.0, 5406.0, 5498.0, 5404.0, 5448.0, 5503.0, 5425.0, 5350.0, 5252.0, 5647.0<br>(number of hits: 10)                                         |
| 16 | 5510 | 9 | 1 | 333 | 1 | 5522.0, 5398.0, 5385.0, 5565.0, 5546.0, 5555.0, 5342.0, 5254.0, 5319.0, 5513.0, 5631.0, 5311.0, 5452.0, 5465.0, 5520.0, 5290.0, 5361.0, 5662.0, 5400.0, 5333.0, 5283.0, 5521.0, 5680.0, 5554.0, 5620.0, 5277.0, 5692.0, 5651.0, 5596.0, 5336.0, 5265.0, 5677.0, 5425.0, 5309.0, 5703.0, 5433.0, 5364.0, 5675.0, 5583.0, 5503.0, 5416.0, 5537.0, 5709.0, 5345.0, 5678.0, 5474.0, 5390.0, 5275.0, 5505.0, 5469.0, 5352.0, 5508.0, 5455.0, 5510.0, 5294.0, 5556.0, 5329.0, 5498.0, 5509.0, 5387.0, 5564.0, 5558.0, 5578.0, 5516.0, 5273.0, 5686.0, 5453.0, 5609.0, 5669.0, 5427.0, 5349.0, 5379.0, 5288.0, 5417.0, 5634.0, 5632.0, 5626.0, 5705.0, 5429.0, 5393.0, 5404.0, 5606.0, 5359.0, 5629.0, 5714.0, 5532.0, 5300.0, 5612.0, 5657.0, 5423.0, 5667.0, 5260.0, 5645.0, 5278.0, 5271.0, 5535.0, 5658.0, 5501.0, 5282.0, 5418.0<br>(number of hits: 12) |
| 17 | 5510 | 9 | 1 | 333 | 1 | 5561.0, 5610.0, 5532.0, 5407.0, 5496.0, 5453.0, 5357.0, 5445.0, 5640.0, 5582.0, 5440.0, 5678.0, 5531.0, 5439.0, 5629.0, 5665.0, 5673.0, 5388.0, 5345.0, 5449.0, 5657.0, 5412.0, 5302.0, 5645.0, 5519.0, 5635.0, 5415.0, 5276.0, 5426.0, 5719.0, 5286.0, 5591.0, 5256.0, 5652.0, 5446.0, 5326.0, 5602.0, 5593.0, 5289.0, 5616.0, 5671.0, 5517.0, 5341.0, 5663.0, 5697.0, 5626.0, 5720.0, 5700.0, 5311.0, 5468.0, 5528.0, 5457.0, 5384.0, 5474.0, 5312.0, 5324.0, 5674.0, 5575.0, 5545.0, 5533.0, 5620.0, 5703.0, 5303.0, 5712.0, 5479.0, 5664.0, 5600.0, 5434.0, 5627.0, 5547.0, 5651.0, 5280.0, 5649.0, 5448.0, 5708.0, 5676.0, 5692.0, 5318.0, 5375.0, 5369.0, 5588.0, 5618.0, 5576.0, 5355.0, 5365.0, 5400.0, 5642.0, 5574.0, 5614.0, 5284.0, 5287.0, 5374.0, 5481.0, 5399.0, 5413.0,                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|------|---|---|-----|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5260.0, 5402.0, 5565.0, 5507.0, 5586.0<br>(number of hits: 4 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 18 | 5510 | 9 | 1 | 333 | 1 | 5497.0, 5446.0, 5599.0, 5624.0, 5326.0,<br>5505.0, 5594.0, 5645.0, 5673.0, 5487.0,<br>5380.0, 5475.0, 5459.0, 5582.0, 5604.0,<br>5503.0, 5426.0, 5458.0, 5638.0, 5506.0,<br>5686.0, 5636.0, 5261.0, 5266.0, 5427.0,<br>5298.0, 5695.0, 5279.0, 5680.0, 5472.0,<br>5461.0, 5489.0, 5595.0, 5619.0, 5622.0,<br>5516.0, 5700.0, 5448.0, 5693.0, 5330.0,<br>5570.0, 5703.0, 5528.0, 5468.0, 5341.0,<br>5568.0, 5301.0, 5322.0, 5370.0, 5257.0,<br>5338.0, 5633.0, 5670.0, 5289.0, 5649.0,<br>5585.0, 5552.0, 5561.0, 5538.0, 5455.0,<br>5260.0, 5319.0, 5402.0, 5476.0, 5391.0,<br>5629.0, 5689.0, 5704.0, 5418.0, 5603.0,<br>5713.0, 5353.0, 5550.0, 5259.0, 5607.0,<br>5502.0, 5379.0, 5285.0, 5453.0, 5566.0,<br>5457.0, 5444.0, 5681.0, 5521.0, 5284.0,<br>5634.0, 5304.0, 5320.0, 5387.0, 5281.0,<br>5556.0, 5325.0, 5597.0, 5709.0, 5666.0,<br>5433.0, 5392.0, 5544.0, 5606.0, 5482.0<br>(number of hits: 7 )  |
| 19 | 5510 | 9 | 1 | 333 | 1 | 5342.0, 5436.0, 5491.0, 5575.0, 5453.0,<br>5260.0, 5640.0, 5687.0, 5382.0, 5477.0,<br>5536.0, 5370.0, 5416.0, 5383.0, 5315.0,<br>5281.0, 5494.0, 5578.0, 5485.0, 5709.0,<br>5560.0, 5606.0, 5517.0, 5426.0, 5442.0,<br>5483.0, 5367.0, 5499.0, 5584.0, 5380.0,<br>5712.0, 5594.0, 5256.0, 5411.0, 5401.0,<br>5635.0, 5353.0, 5390.0, 5633.0, 5688.0,<br>5312.0, 5443.0, 5295.0, 5463.0, 5293.0,<br>5648.0, 5368.0, 5532.0, 5489.0, 5464.0,<br>5614.0, 5645.0, 5604.0, 5501.0, 5481.0,<br>5468.0, 5678.0, 5319.0, 5612.0, 5701.0,<br>5496.0, 5653.0, 5706.0, 5488.0, 5520.0,<br>5716.0, 5661.0, 5639.0, 5583.0, 5379.0,<br>5504.0, 5329.0, 5279.0, 5484.0, 5702.0,<br>5253.0, 5502.0, 5385.0, 5359.0, 5685.0,<br>5490.0, 5525.0, 5294.0, 5626.0, 5530.0,<br>5576.0, 5599.0, 5388.0, 5657.0, 5597.0,<br>5650.0, 5427.0, 5593.0, 5441.0, 5519.0,<br>5616.0, 5369.0, 5551.0, 5554.0, 5478.0<br>(number of hits: 10 ) |
| 20 | 5510 | 9 | 1 | 333 | 1 | 5424.0, 5598.0, 5274.0, 5577.0, 5464.0,<br>5507.0, 5309.0, 5319.0, 5444.0, 5591.0,<br>5603.0, 5421.0, 5677.0, 5320.0, 5720.0,<br>5622.0, 5431.0, 5292.0, 5422.0, 5286.0,<br>5611.0, 5316.0, 5676.0, 5692.0, 5580.0,<br>5338.0, 5538.0, 5310.0, 5721.0, 5333.0,<br>5267.0, 5439.0, 5465.0, 5430.0, 5461.0,<br>5277.0, 5382.0, 5704.0, 5500.0, 5426.0,<br>5328.0, 5264.0, 5616.0, 5339.0, 5261.0,<br>5564.0, 5250.0, 5379.0, 5298.0, 5387.0,<br>5313.0, 5317.0, 5597.0, 5363.0, 5563.0,<br>5435.0, 5485.0, 5548.0, 5586.0, 5599.0,<br>5406.0, 5486.0, 5294.0, 5414.0, 5450.0,<br>5719.0, 5262.0, 5530.0, 5635.0, 5449.0,<br>5672.0, 5508.0, 5581.0, 5311.0, 5327.0,<br>5383.0, 5526.0, 5610.0, 5470.0, 5271.0,                                                                                                                                                                                                     |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5273.0, 5335.0, 5466.0, 5557.0, 5278.0, 5584.0, 5693.0, 5536.0, 5303.0, 5370.0, 5396.0, 5534.0, 5540.0, 5260.0, 5555.0, 5268.0, 5391.0, 5299.0, 5372.0, 5392.0<br>(number of hits: 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 21 | 5510 | 9 | 1 | 333 | 1 | 5459.0, 5461.0, 5713.0, 5285.0, 5422.0, 5426.0, 5668.0, 5334.0, 5373.0, 5673.0, 5551.0, 5353.0, 5349.0, 5570.0, 5263.0, 5434.0, 5531.0, 5483.0, 5706.0, 5561.0, 5448.0, 5490.0, 5630.0, 5626.0, 5327.0, 5268.0, 5278.0, 5494.0, 5586.0, 5711.0, 5658.0, 5363.0, 5299.0, 5532.0, 5564.0, 5663.0, 5393.0, 5512.0, 5348.0, 5253.0, 5441.0, 5508.0, 5415.0, 5362.0, 5409.0, 5279.0, 5328.0, 5485.0, 5712.0, 5618.0, 5652.0, 5344.0, 5590.0, 5472.0, 5669.0, 5724.0, 5319.0, 5576.0, 5289.0, 5703.0, 5473.0, 5495.0, 5649.0, 5467.0, 5449.0, 5250.0, 5615.0, 5522.0, 5404.0, 5634.0, 5550.0, 5288.0, 5384.0, 5542.0, 5307.0, 5378.0, 5465.0, 5464.0, 5309.0, 5517.0, 5413.0, 5479.0, 5661.0, 5659.0, 5607.0, 5581.0, 5410.0, 5696.0, 5686.0, 5511.0, 5680.0, 5574.0, 5536.0, 5340.0, 5454.0, 5584.0, 5452.0, 5496.0, 5672.0, 5656.0<br>(number of hits: 8) |
| 22 | 5510 | 9 | 1 | 333 | 1 | 5299.0, 5339.0, 5413.0, 5257.0, 5291.0, 5370.0, 5710.0, 5250.0, 5560.0, 5601.0, 5267.0, 5590.0, 5558.0, 5686.0, 5609.0, 5650.0, 5378.0, 5676.0, 5330.0, 5403.0, 5720.0, 5484.0, 5301.0, 5493.0, 5472.0, 5708.0, 5276.0, 5672.0, 5280.0, 5494.0, 5653.0, 5389.0, 5680.0, 5434.0, 5624.0, 5608.0, 5320.0, 5435.0, 5264.0, 5448.0, 5356.0, 5688.0, 5327.0, 5538.0, 5682.0, 5277.0, 5580.0, 5350.0, 5318.0, 5296.0, 5421.0, 5475.0, 5259.0, 5598.0, 5424.0, 5269.0, 5541.0, 5483.0, 5451.0, 5652.0, 5254.0, 5420.0, 5503.0, 5442.0, 5570.0, 5552.0, 5540.0, 5252.0, 5460.0, 5520.0, 5358.0, 5584.0, 5585.0, 5488.0, 5617.0, 5449.0, 5713.0, 5716.0, 5588.0, 5572.0, 5523.0, 5373.0, 5367.0, 5352.0, 5355.0, 5582.0, 5308.0, 5571.0, 5464.0, 5426.0, 5300.0, 5261.0, 5416.0, 5694.0, 5578.0, 5274.0, 5526.0, 5371.0, 5646.0, 5331.0<br>(number of hits: 6) |
| 23 | 5510 | 9 | 1 | 333 | 1 | 5522.0, 5328.0, 5593.0, 5599.0, 5505.0, 5506.0, 5258.0, 5567.0, 5266.0, 5563.0, 5411.0, 5504.0, 5385.0, 5716.0, 5534.0, 5698.0, 5289.0, 5651.0, 5598.0, 5554.0, 5483.0, 5499.0, 5327.0, 5357.0, 5587.0, 5594.0, 5527.0, 5319.0, 5500.0, 5512.0, 5465.0, 5449.0, 5521.0, 5435.0, 5372.0, 5265.0, 5539.0, 5711.0, 5310.0, 5364.0, 5614.0, 5569.0, 5424.0, 5343.0, 5440.0, 5495.0, 5373.0, 5580.0, 5638.0, 5542.0, 5404.0, 5381.0, 5456.0, 5282.0, 5653.0, 5402.0, 5252.0, 5497.0, 5426.0, 5363.0, 5490.0, 5528.0, 5342.0, 5720.0, 5565.0,                                                                                                                                                                                                                                                                                                               |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5545.0, 5656.0, 5281.0, 5611.0, 5661.0, 5300.0, 5287.0, 5531.0, 5683.0, 5686.0, 5335.0, 5600.0, 5326.0, 5639.0, 5434.0, 5324.0, 5713.0, 5617.0, 5388.0, 5487.0, 5320.0, 5351.0, 5399.0, 5477.0, 5547.0, 5419.0, 5341.0, 5347.0, 5344.0, 5553.0, 5681.0, 5468.0, 5723.0, 5298.0, 5696.0<br>(number of hits: 11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 24 | 5510 | 9 | 1 | 333 | 1 | 5368.0, 5535.0, 5461.0, 5559.0, 5657.0, 5589.0, 5511.0, 5314.0, 5684.0, 5447.0, 5397.0, 5509.0, 5304.0, 5256.0, 5588.0, 5578.0, 5720.0, 5263.0, 5608.0, 5718.0, 5411.0, 5702.0, 5564.0, 5365.0, 5541.0, 5555.0, 5378.0, 5661.0, 5363.0, 5669.0, 5448.0, 5364.0, 5326.0, 5537.0, 5648.0, 5295.0, 5599.0, 5632.0, 5719.0, 5431.0, 5466.0, 5283.0, 5376.0, 5407.0, 5330.0, 5522.0, 5491.0, 5451.0, 5662.0, 5678.0, 5614.0, 5490.0, 5706.0, 5423.0, 5317.0, 5653.0, 5688.0, 5296.0, 5503.0, 5462.0, 5656.0, 5313.0, 5349.0, 5383.0, 5331.0, 5524.0, 5286.0, 5536.0, 5534.0, 5713.0, 5391.0, 5642.0, 5489.0, 5520.0, 5611.0, 5268.0, 5316.0, 5257.0, 5367.0, 5396.0, 5328.0, 5332.0, 5618.0, 5561.0, 5563.0, 5444.0, 5530.0, 5309.0, 5446.0, 5459.0, 5622.0, 5486.0, 5641.0, 5607.0, 5476.0, 5430.0, 5468.0, 5528.0, 5387.0, 5412.0<br>(number of hits: 6) |
| 25 | 5510 | 9 | 1 | 333 | 1 | 5574.0, 5339.0, 5489.0, 5252.0, 5436.0, 5455.0, 5254.0, 5295.0, 5274.0, 5577.0, 5717.0, 5508.0, 5262.0, 5720.0, 5518.0, 5616.0, 5261.0, 5685.0, 5621.0, 5561.0, 5338.0, 5536.0, 5399.0, 5449.0, 5610.0, 5398.0, 5595.0, 5303.0, 5335.0, 5646.0, 5591.0, 5291.0, 5300.0, 5500.0, 5454.0, 5525.0, 5364.0, 5517.0, 5347.0, 5437.0, 5565.0, 5722.0, 5712.0, 5353.0, 5701.0, 5556.0, 5570.0, 5638.0, 5723.0, 5439.0, 5485.0, 5304.0, 5412.0, 5589.0, 5464.0, 5382.0, 5512.0, 5585.0, 5691.0, 5630.0, 5380.0, 5522.0, 5372.0, 5442.0, 5670.0, 5433.0, 5283.0, 5424.0, 5716.0, 5480.0, 5587.0, 5410.0, 5415.0, 5680.0, 5663.0, 5572.0, 5692.0, 5401.0, 5623.0, 5451.0, 5515.0, 5640.0, 5358.0, 5379.0, 5463.0, 5447.0, 5365.0, 5362.0, 5666.0, 5400.0, 5592.0, 5324.0, 5586.0, 5710.0, 5351.0, 5434.0, 5438.0, 5617.0, 5627.0, 5637.0<br>(number of hits: 8) |
| 26 | 5510 | 9 | 1 | 333 | 1 | 5338.0, 5304.0, 5518.0, 5497.0, 5560.0, 5333.0, 5511.0, 5457.0, 5544.0, 5667.0, 5491.0, 5648.0, 5532.0, 5412.0, 5716.0, 5342.0, 5521.0, 5265.0, 5287.0, 5564.0, 5541.0, 5257.0, 5502.0, 5328.0, 5616.0, 5391.0, 5404.0, 5308.0, 5378.0, 5527.0, 5305.0, 5484.0, 5523.0, 5430.0, 5270.0, 5535.0, 5448.0, 5365.0, 5329.0, 5644.0, 5548.0, 5555.0, 5420.0, 5434.0, 5577.0, 5668.0, 5719.0, 5517.0, 5326.0, 5650.0,                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|------|---|---|-----|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5705.0, 5276.0, 5683.0, 5547.0, 5259.0, 5610.0, 5363.0, 5282.0, 5596.0, 5266.0, 5325.0, 5443.0, 5405.0, 5465.0, 5400.0, 5432.0, 5470.0, 5316.0, 5651.0, 5654.0, 5539.0, 5619.0, 5574.0, 5327.0, 5722.0, 5397.0, 5332.0, 5537.0, 5317.0, 5476.0, 5662.0, 5306.0, 5436.0, 5344.0, 5663.0, 5550.0, 5690.0, 5629.0, 5314.0, 5299.0, 5702.0, 5490.0, 5381.0, 5709.0, 5417.0, 5645.0, 5468.0, 5717.0, 5275.0, 5666.0<br>(number of hits: 8)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 27 | 5510 | 9 | 1 | 333 | 1 | 5343.0, 5415.0, 5373.0, 5411.0, 5306.0, 5507.0, 5620.0, 5274.0, 5312.0, 5385.0, 5410.0, 5708.0, 5446.0, 5427.0, 5714.0, 5308.0, 5676.0, 5378.0, 5371.0, 5263.0, 5701.0, 5265.0, 5490.0, 5379.0, 5270.0, 5695.0, 5487.0, 5347.0, 5592.0, 5540.0, 5588.0, 5310.0, 5294.0, 5322.0, 5696.0, 5633.0, 5424.0, 5416.0, 5661.0, 5396.0, 5318.0, 5577.0, 5508.0, 5279.0, 5693.0, 5641.0, 5418.0, 5518.0, 5495.0, 5475.0, 5391.0, 5334.0, 5580.0, 5626.0, 5288.0, 5324.0, 5315.0, 5311.0, 5698.0, 5413.0, 5648.0, 5383.0, 5647.0, 5559.0, 5492.0, 5465.0, 5421.0, 5351.0, 5556.0, 5700.0, 5603.0, 5286.0, 5618.0, 5316.0, 5565.0, 5464.0, 5429.0, 5275.0, 5339.0, 5417.0, 5434.0, 5523.0, 5504.0, 5635.0, 5297.0, 5517.0, 5574.0, 5505.0, 5355.0, 5365.0, 5253.0, 5666.0, 5707.0, 5659.0, 5342.0, 5374.0, 5697.0, 5629.0, 5480.0, 5268.0<br>(number of hits: 9) |
| 28 | 5510 | 9 | 1 | 333 | 1 | 5342.0, 5402.0, 5616.0, 5436.0, 5672.0, 5382.0, 5428.0, 5635.0, 5503.0, 5624.0, 5554.0, 5393.0, 5501.0, 5670.0, 5584.0, 5708.0, 5510.0, 5485.0, 5283.0, 5292.0, 5444.0, 5408.0, 5459.0, 5496.0, 5303.0, 5606.0, 5409.0, 5681.0, 5374.0, 5434.0, 5615.0, 5252.0, 5431.0, 5324.0, 5476.0, 5543.0, 5678.0, 5617.0, 5421.0, 5449.0, 5608.0, 5379.0, 5329.0, 5345.0, 5652.0, 5504.0, 5412.0, 5621.0, 5437.0, 5572.0, 5487.0, 5665.0, 5312.0, 5579.0, 5631.0, 5285.0, 5287.0, 5269.0, 5698.0, 5641.0, 5657.0, 5555.0, 5514.0, 5540.0, 5611.0, 5719.0, 5626.0, 5707.0, 5446.0, 5481.0, 5653.0, 5470.0, 5471.0, 5697.0, 5357.0, 5619.0, 5414.0, 5677.0, 5714.0, 5591.0, 5359.0, 5605.0, 5467.0, 5627.0, 5398.0, 5535.0, 5494.0, 5456.0, 5522.0, 5298.0, 5454.0, 5266.0, 5300.0, 5286.0, 5700.0, 5253.0, 5644.0, 5310.0, 5278.0, 5439.0<br>(number of hits: 8) |
| 29 | 5510 | 9 | 1 | 333 | 1 | 5472.0, 5360.0, 5358.0, 5702.0, 5609.0, 5499.0, 5411.0, 5256.0, 5442.0, 5617.0, 5541.0, 5683.0, 5520.0, 5621.0, 5438.0, 5677.0, 5348.0, 5393.0, 5436.0, 5698.0, 5706.0, 5691.0, 5487.0, 5425.0, 5561.0, 5402.0, 5582.0, 5287.0, 5657.0, 5555.0, 5424.0, 5284.0, 5296.0, 5589.0, 5347.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5416.0, 5522.0, 5352.0, 5709.0, 5659.0, 5532.0, 5719.0, 5500.0, 5343.0, 5627.0, 5268.0, 5342.0, 5669.0, 5537.0, 5329.0, 5543.0, 5493.0, 5295.0, 5403.0, 5305.0, 5423.0, 5655.0, 5616.0, 5687.0, 5346.0, 5671.0, 5484.0, 5721.0, 5280.0, 5322.0, 5397.0, 5512.0, 5496.0, 5275.0, 5410.0, 5602.0, 5707.0, 5470.0, 5550.0, 5456.0, 5434.0, 5301.0, 5618.0, 5585.0, 5588.0, 5676.0, 5664.0, 5409.0, 5661.0, 5371.0, 5414.0, 5492.0, 5317.0, 5699.0, 5564.0, 5478.0, 5690.0, 5321.0, 5449.0, 5516.0, 5277.0, 5474.0, 5315.0, 5716.0, 5304.0<br>(number of hits: 9 )                                                                                                                                                                                                                                                                                          |
| 30 | 5510 | 9 | 1 | 333 | 1 | 5399.0, 5523.0, 5448.0, 5487.0, 5639.0, 5626.0, 5545.0, 5383.0, 5479.0, 5429.0, 5527.0, 5404.0, 5696.0, 5690.0, 5431.0, 5618.0, 5338.0, 5470.0, 5428.0, 5477.0, 5478.0, 5421.0, 5512.0, 5253.0, 5268.0, 5289.0, 5363.0, 5497.0, 5540.0, 5329.0, 5358.0, 5270.0, 5664.0, 5300.0, 5416.0, 5447.0, 5343.0, 5461.0, 5287.0, 5290.0, 5547.0, 5670.0, 5584.0, 5476.0, 5597.0, 5434.0, 5566.0, 5460.0, 5354.0, 5706.0, 5464.0, 5525.0, 5654.0, 5710.0, 5575.0, 5716.0, 5475.0, 5679.0, 5579.0, 5650.0, 5648.0, 5715.0, 5694.0, 5674.0, 5623.0, 5705.0, 5295.0, 5308.0, 5271.0, 5291.0, 5691.0, 5544.0, 5713.0, 5582.0, 5386.0, 5659.0, 5583.0, 5496.0, 5471.0, 5430.0, 5446.0, 5673.0, 5516.0, 5501.0, 5585.0, 5542.0, 5723.0, 5511.0, 5344.0, 5510.0, 5632.0, 5432.0, 5602.0, 5708.0, 5369.0, 5375.0, 5330.0, 5463.0, 5637.0, 5302.0<br>(number of hits: 10 ) |

**5530 MHz, 80 MHz Bandwidth**

| <b>Radar Signal Type</b>      | <b>Waveform/Trial Number</b> | <b>Detection (%)</b> | <b>Limit (%)</b> | <b>Pass/Fail</b> |
|-------------------------------|------------------------------|----------------------|------------------|------------------|
| <b>Type 1A/1B</b>             | 30                           | 100 %                | 60%              | Pass             |
| <b>Type 2</b>                 | 30                           | 80 %                 | 60%              | Pass             |
| <b>Type 3</b>                 | 30                           | 73.3 %               | 60%              | Pass             |
| <b>Type 4</b>                 | 30                           | 73.3 %               | 60%              | Pass             |
| <b>Aggregate (Type1 to 4)</b> | 120                          | 81.65 %              | 80%              | Pass             |
| <b>Type 5</b>                 | 30                           | 100 %                | 80%              | Pass             |
| <b>Type 6</b>                 | 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**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                            | 5530            | 59                 | 1                       | 898             | 1                              |
| 2                                            | 5530            | 92                 | 1                       | 578             | 1                              |
| 3                                            | 5530            | 67                 | 1                       | 798             | 1                              |
| 4                                            | 5530            | 58                 | 1                       | 918             | 1                              |
| 5                                            | 5530            | 63                 | 1                       | 838             | 1                              |
| 6                                            | 5492            | 78                 | 1                       | 678             | 1                              |
| 7                                            | 5492            | 62                 | 1                       | 858             | 1                              |
| 8                                            | 5492            | 83                 | 1                       | 638             | 1                              |
| 9                                            | 5492            | 68                 | 1                       | 778             | 1                              |
| 10                                           | 5492            | 61                 | 1                       | 878             | 1                              |
| 11                                           | 5568            | 89                 | 1                       | 598             | 1                              |
| 12                                           | 5568            | 86                 | 1                       | 618             | 1                              |
| 13                                           | 5568            | 99                 | 1                       | 538             | 1                              |
| 14                                           | 5568            | 81                 | 1                       | 658             | 1                              |
| 15                                           | 5568            | 76                 | 1                       | 698             | 1                              |
| 16                                           | 5530            | 32                 | 1                       | 1671            | 1                              |
| 17                                           | 5530            | 23                 | 1                       | 2398            | 1                              |
| 18                                           | 5530            | 26                 | 1                       | 2048            | 1                              |
| 19                                           | 5530            | 21                 | 1                       | 2580            | 1                              |
| 20                                           | 5530            | 30                 | 1                       | 1802            | 1                              |
| 21                                           | 5492            | 26                 | 1                       | 2080            | 1                              |
| 22                                           | 5492            | 19                 | 1                       | 2903            | 1                              |
| 23                                           | 5492            | 22                 | 1                       | 2403            | 1                              |
| 24                                           | 5492            | 22                 | 1                       | 2422            | 1                              |
| 25                                           | 5492            | 19                 | 1                       | 2866            | 1                              |
| 26                                           | 5568            | 44                 | 1                       | 1225            | 1                              |
| 27                                           | 5568            | 53                 | 1                       | 1012            | 1                              |
| 28                                           | 5568            | 25                 | 1                       | 2199            | 1                              |
| 29                                           | 5568            | 42                 | 1                       | 1284            | 1                              |
| 30                                           | 5568            | 20                 | 1                       | 2726            | 1                              |
| <b>Detection Percentage: 100 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-2 Radar Type 2 Statistical Performance**

| <b>Trial #</b>                              | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|---------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                           | 5530            | 24                 | 2.5                     | 217             | 1                              |
| 2                                           | 5530            | 28                 | 4.7                     | 213             | 0                              |
| 3                                           | 5530            | 23                 | 1.2                     | 228             | 1                              |
| 4                                           | 5530            | 26                 | 2.5                     | 187             | 1                              |
| 5                                           | 5530            | 23                 | 1                       | 217             | 0                              |
| 6                                           | 5530            | 23                 | 2.7                     | 169             | 1                              |
| 7                                           | 5530            | 24                 | 2.7                     | 187             | 0                              |
| 8                                           | 5530            | 26                 | 1                       | 201             | 1                              |
| 9                                           | 5530            | 24                 | 4.9                     | 222             | 1                              |
| 10                                          | 5530            | 28                 | 1.2                     | 196             | 1                              |
| 11                                          | 5492            | 25                 | 1.5                     | 174             | 1                              |
| 12                                          | 5492            | 26                 | 4                       | 226             | 1                              |
| 13                                          | 5492            | 24                 | 1.2                     | 192             | 0                              |
| 14                                          | 5492            | 26                 | 1.6                     | 180             | 1                              |
| 15                                          | 5492            | 25                 | 3.8                     | 152             | 0                              |
| 16                                          | 5492            | 24                 | 4.2                     | 210             | 1                              |
| 17                                          | 5492            | 26                 | 4.1                     | 169             | 1                              |
| 18                                          | 5492            | 24                 | 2.3                     | 223             | 0                              |
| 19                                          | 5492            | 29                 | 2.9                     | 184             | 1                              |
| 20                                          | 5492            | 24                 | 2.8                     | 152             | 1                              |
| 21                                          | 5568            | 24                 | 1.9                     | 187             | 1                              |
| 22                                          | 5568            | 24                 | 3.5                     | 229             | 1                              |
| 23                                          | 5568            | 24                 | 3.3                     | 155             | 1                              |
| 24                                          | 5568            | 25                 | 1.5                     | 189             | 1                              |
| 25                                          | 5568            | 24                 | 2                       | 175             | 1                              |
| 26                                          | 5568            | 26                 | 2.8                     | 183             | 1                              |
| 27                                          | 5568            | 27                 | 3.4                     | 196             | 1                              |
| 28                                          | 5568            | 28                 | 4.2                     | 220             | 1                              |
| 29                                          | 5568            | 25                 | 1.9                     | 159             | 1                              |
| 30                                          | 5568            | 28                 | 3.1                     | 204             | 1                              |
| <b>Detection Percentage: 80 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-3 Radar Type 3 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5530            | 16                 | 7.8                     | 405             | 1                              |
| 2                                             | 5530            | 18                 | 7                       | 317             | 0                              |
| 3                                             | 5530            | 18                 | 7.3                     | 447             | 0                              |
| 4                                             | 5530            | 16                 | 9.8                     | 488             | 0                              |
| 5                                             | 5530            | 17                 | 9.8                     | 303             | 1                              |
| 6                                             | 5530            | 16                 | 9.7                     | 448             | 0                              |
| 7                                             | 5530            | 17                 | 6.7                     | 414             | 1                              |
| 8                                             | 5530            | 16                 | 8.5                     | 477             | 0                              |
| 9                                             | 5530            | 18                 | 8.3                     | 490             | 0                              |
| 10                                            | 5530            | 18                 | 8                       | 475             | 0                              |
| 11                                            | 5492            | 18                 | 10                      | 249             | 1                              |
| 12                                            | 5492            | 17                 | 8.3                     | 205             | 0                              |
| 13                                            | 5492            | 18                 | 7.3                     | 221             | 1                              |
| 14                                            | 5492            | 16                 | 8.1                     | 407             | 1                              |
| 15                                            | 5492            | 17                 | 8.3                     | 391             | 1                              |
| 16                                            | 5492            | 16                 | 6.4                     | 476             | 1                              |
| 17                                            | 5492            | 17                 | 8.7                     | 334             | 1                              |
| 18                                            | 5492            | 16                 | 7.6                     | 430             | 1                              |
| 19                                            | 5492            | 17                 | 7.8                     | 310             | 1                              |
| 20                                            | 5492            | 16                 | 8.7                     | 445             | 1                              |
| 21                                            | 5568            | 16                 | 8.4                     | 435             | 1                              |
| 22                                            | 5568            | 17                 | 8.9                     | 358             | 1                              |
| 23                                            | 5568            | 18                 | 9.9                     | 406             | 1                              |
| 24                                            | 5568            | 17                 | 8.2                     | 270             | 1                              |
| 25                                            | 5568            | 17                 | 8.8                     | 391             | 1                              |
| 26                                            | 5568            | 18                 | 7.4                     | 438             | 1                              |
| 27                                            | 5568            | 17                 | 7                       | 245             | 1                              |
| 28                                            | 5568            | 17                 | 9.8                     | 247             | 1                              |
| 29                                            | 5568            | 18                 | 8.6                     | 432             | 1                              |
| 30                                            | 5568            | 17                 | 7                       | 347             | 1                              |
| <b>Detection Percentage: 73.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-4 Radar Type 4 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5530            | 13                 | 11.5                    | 498             | 1                              |
| 2                                             | 5530            | 16                 | 14.7                    | 483             | 0                              |
| 3                                             | 5530            | 15                 | 12.7                    | 402             | 0                              |
| 4                                             | 5530            | 14                 | 15.8                    | 218             | 0                              |
| 5                                             | 5530            | 15                 | 12.4                    | 254             | 1                              |
| 6                                             | 5530            | 13                 | 12.4                    | 274             | 1                              |
| 7                                             | 5530            | 13                 | 12.1                    | 310             | 0                              |
| 8                                             | 5530            | 16                 | 14.3                    | 226             | 0                              |
| 9                                             | 5530            | 13                 | 17.3                    | 317             | 0                              |
| 10                                            | 5530            | 14                 | 15.7                    | 479             | 1                              |
| 11                                            | 5492            | 15                 | 16.1                    | 315             | 1                              |
| 12                                            | 5492            | 15                 | 15.1                    | 256             | 1                              |
| 13                                            | 5492            | 15                 | 16.7                    | 355             | 1                              |
| 14                                            | 5492            | 16                 | 13.4                    | 429             | 1                              |
| 15                                            | 5492            | 16                 | 11.5                    | 328             | 0                              |
| 16                                            | 5492            | 13                 | 19.4                    | 234             | 1                              |
| 17                                            | 5492            | 16                 | 17.3                    | 233             | 1                              |
| 18                                            | 5492            | 16                 | 18.2                    | 461             | 1                              |
| 19                                            | 5492            | 16                 | 11.4                    | 497             | 1                              |
| 20                                            | 5492            | 15                 | 16.2                    | 428             | 1                              |
| 21                                            | 5568            | 16                 | 17.9                    | 308             | 1                              |
| 22                                            | 5568            | 16                 | 14.5                    | 294             | 1                              |
| 23                                            | 5568            | 13                 | 15.6                    | 349             | 1                              |
| 24                                            | 5568            | 12                 | 14.4                    | 228             | 0                              |
| 25                                            | 5568            | 13                 | 16.2                    | 478             | 1                              |
| 26                                            | 5568            | 12                 | 18.2                    | 221             | 1                              |
| 27                                            | 5568            | 13                 | 19.3                    | 360             | 1                              |
| 28                                            | 5568            | 16                 | 18.8                    | 388             | 1                              |
| 29                                            | 5568            | 15                 | 19.5                    | 381             | 1                              |
| 30                                            | 5568            | 13                 | 13.4                    | 492             | 1                              |
| <b>Detection Percentage: 73.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-5 Radar Type 5 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------------------|
| 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                                           | 5500.0          | 1                              |
| 12                                           | 5498.8          | 1                              |
| 13                                           | 5498.0          | 1                              |
| 14                                           | 5497.6          | 1                              |
| 15                                           | 5495.2          | 1                              |
| 16                                           | 5497.6          | 1                              |
| 17                                           | 5494.4          | 1                              |
| 18                                           | 5500.0          | 1                              |
| 19                                           | 5496.0          | 1                              |
| 20                                           | 5500.0          | 1                              |
| 21                                           | 5560.8          | 1                              |
| 22                                           | 5560.0          | 1                              |
| 23                                           | 5565.2          | 1                              |
| 24                                           | 5561.6          | 1                              |
| 25                                           | 5564.4          | 1                              |
| 26                                           | 5560.4          | 1                              |
| 27                                           | 5565.6          | 1                              |
| 28                                           | 5561.2          | 1                              |
| 29                                           | 5563.2          | 1                              |
| 30                                           | 5562.4          | 1                              |
| <b>Detection Percentage: 100 % (&gt;80%)</b> |                 |                                |

## 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     | 8           | 68.6             | 1614                   | -                      | 1.450652       | 1                       |
| 1       | 2     | 8           | 82.7             | 1552                   | -                      | 2.673598       |                         |
| 2       | 2     | 8           | 53               | 1625                   | -                      | 3.738658       |                         |
| 3       | 1     | 8           | 56               | -                      | -                      | 5.981721       |                         |
| 4       | 3     | 8           | 74.7             | 1663                   | 1509                   | 6.686359       |                         |
| 5       | 3     | 8           | 69.1             | 1347                   | 1711                   | 7.595714       |                         |
| 6       | 2     | 8           | 91.2             | 1278                   | -                      | 10.044604      |                         |
| 7       | 3     | 8           | 78.4             | 1248                   | 1755                   | 10.671366      |                         |

## 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     | 14          | 84.6             | 1773                   | -                      | 1.020694       | 1                       |
| 1       | 3     | 14          | 94.4             | 1015                   | 1476                   | 1.182574       |                         |
| 2       | 1     | 14          | 67.4             | -                      | -                      | 2.653291       |                         |
| 3       | 3     | 14          | 89.2             | 1665                   | 1814                   | 3.710473       |                         |
| 4       | 2     | 14          | 99.7             | 1896                   | -                      | 5.392511       |                         |
| 5       | 2     | 14          | 52.1             | 1186                   | -                      | 6.405865       |                         |
| 6       | 2     | 14          | 96               | 1734                   | -                      | 6.786869       |                         |
| 7       | 1     | 14          | 94.5             | -                      | -                      | 7.719003       |                         |
| 8       | 3     | 14          | 67.1             | 1165                   | 1511                   | 9.632392       |                         |
| 9       | 1     | 14          | 61.3             | -                      | -                      | 10.480031      |                         |
| 10      | 3     | 14          | 66.3             | 1660                   | 1963                   | 11.672759      |                         |

## 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     | 9           | 88.6             | 1028                   | 1006                   | 0.675649       | 1                       |
| 1       | 2     | 9           | 55.8             | 1853                   | -                      | 1.078311       |                         |
| 2       | 1     | 9           | 87.5             | -                      | -                      | 2.224847       |                         |
| 3       | 2     | 9           | 92.2             | 1745                   | -                      | 3.317608       |                         |
| 4       | 1     | 9           | 86.9             | -                      | -                      | 3.561606       |                         |
| 5       | 2     | 9           | 76.6             | 1325                   | -                      | 4.690858       |                         |
| 6       | 2     | 9           | 65.3             | 1010                   | -                      | 5.985679       |                         |
| 7       | 3     | 9           | 72.8             | 1986                   | 1908                   | 6.771772       |                         |
| 8       | 3     | 9           | 79               | 1809                   | 1577                   | 7.144819       |                         |
| 9       | 1     | 9           | 59.6             | -                      | -                      | 8.03276        |                         |
| 10      | 3     | 9           | 74.3             | 1606                   | 1842                   | 9.41322        |                         |
| 11      | 2     | 9           | 97.9             | 1929                   | -                      | 10.018903      |                         |
| 12      | 1     | 9           | 78.9             | -                      | -                      | 10.614941      |                         |
| 13      | 2     | 9           | 77.5             | 1065                   | -                      | 11.522535      |                         |

## Bin5 Statistics 4

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 15          | 54.4             | 1036                   | -                      | 0.727651       | 1                       |
| 1       | 1     | 15          | 94.4             | -                      | -                      | 2.319688       |                         |
| 2       | 1     | 15          | 76.6             | -                      | -                      | 3.141205       |                         |
| 3       | 3     | 15          | 81.6             | 1235                   | 1545                   | 3.948262       |                         |
| 4       | 3     | 15          | 99.3             | 1888                   | 1570                   | 5.629959       |                         |
| 5       | 1     | 15          | 54.1             | -                      | -                      | 6.218617       |                         |
| 6       | 1     | 15          | 72               | -                      | -                      | 7.937533       |                         |
| 7       | 2     | 15          | 87.9             | 1170                   | -                      | 9.207941       |                         |
| 8       | 2     | 15          | 83.9             | 1426                   | -                      | 9.776094       |                         |
| 9       | 2     | 15          | 72.7             | 1952                   | -                      | 11.338418      |                         |

## 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     | 13          | 69.1             | 1493                   | 1288                   | 0.563222       | 1                       |
| 1       | 1     | 13          | 63.9             | -                      | -                      | 1.716381       |                         |
| 2       | 1     | 13          | 80.9             | -                      | -                      | 1.901433       |                         |
| 3       | 2     | 13          | 81.3             | 1192                   | -                      | 3.455833       |                         |
| 4       | 3     | 13          | 51.3             | 1048                   | 1408                   | 4.137685       |                         |
| 5       | 2     | 13          | 62.1             | 1368                   | -                      | 5.104582       |                         |
| 6       | 1     | 13          | 70.1             | -                      | -                      | 5.914631       |                         |
| 7       | 2     | 13          | 97.1             | 1281                   | -                      | 6.804108       |                         |
| 8       | 3     | 13          | 87.7             | 1350                   | 1327                   | 7.811774       |                         |
| 9       | 1     | 13          | 97.1             | -                      | -                      | 8.890844       |                         |
| 10      | 2     | 13          | 77.7             | 1637                   | -                      | 9.469029       |                         |
| 11      | 1     | 13          | 71.1             | -                      | -                      | 10.882887      |                         |
| 12      | 1     | 13          | 99.1             | -                      | -                      | 11.196325      |                         |

## 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     | 16          | 80.6             | 1922                   | 1636                   | 1.166255       | 1                       |
| 1       | 1     | 16          | 69.7             | -                      | -                      | 2.01693        |                         |
| 2       | 2     | 16          | 75.2             | 1976                   | -                      | 3.190271       |                         |
| 3       | 3     | 16          | 51.6             | 1904                   | 1599                   | 4.594803       |                         |
| 4       | 2     | 16          | 82.7             | 1919                   | -                      | 6.835318       |                         |
| 5       | 1     | 16          | 90               | -                      | -                      | 8.349474       |                         |
| 6       | 1     | 16          | 64.9             | -                      | -                      | 10.420968      |                         |
| 7       | 2     | 16          | 53.6             | 1967                   | -                      | 10.651412      |                         |

## Bin5 Statistics 7

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 12          | 68               | -                      | -                      | 0.239072       | 1                       |
| 1       | 1     | 12          | 87.2             | -                      | -                      | 0.764822       |                         |
| 2       | 2     | 12          | 94.3             | 1565                   | -                      | 1.234446       |                         |
| 3       | 1     | 12          | 93.6             | -                      | -                      | 2.264482       |                         |
| 4       | 1     | 12          | 99               | -                      | -                      | 2.884029       |                         |
| 5       | 1     | 12          | 92.2             | -                      | -                      | 3.102398       |                         |
| 6       | 3     | 12          | 68.6             | 1272                   | 1901                   | 4.119131       |                         |
| 7       | 2     | 12          | 86.5             | 1555                   | -                      | 4.306505       |                         |
| 8       | 2     | 12          | 90               | 1852                   | -                      | 5.30391        |                         |
| 9       | 2     | 12          | 99.6             | 1001                   | -                      | 5.679244       |                         |
| 10      | 3     | 12          | 67.8             | 1290                   | 1144                   | 6.196462       |                         |
| 11      | 1     | 12          | 81               | -                      | -                      | 6.773921       |                         |
| 12      | 2     | 12          | 79.8             | 1604                   | -                      | 7.585383       |                         |
| 13      | 2     | 12          | 79.3             | 1534                   | -                      | 8.086395       |                         |
| 14      | 3     | 12          | 53.8             | 1038                   | 1960                   | 8.595049       |                         |
| 15      | 2     | 12          | 89.4             | 1978                   | -                      | 9.500046       |                         |
| 16      | 3     | 12          | 53.1             | 1558                   | 1144                   | 9.805503       |                         |
| 17      | 2     | 12          | 84.3             | 1478                   | -                      | 10.299585      |                         |
| 18      | 2     | 12          | 66.1             | 1496                   | -                      | 11.362598      |                         |
| 19      | 2     | 12          | 52.9             | 1580                   | -                      | 11.569584      |                         |

## 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           | 93.1             | 1456                   | -                      | 0.712863       | 1                       |
| 1       | 2     | 7           | 89.4             | 1974                   | -                      | 2.103141       |                         |
| 2       | 1     | 7           | 74               | -                      | -                      | 3.221879       |                         |
| 3       | 2     | 7           | 58               | 1894                   | -                      | 3.591044       |                         |
| 4       | 2     | 7           | 79.1             | 1824                   | -                      | 5.407318       |                         |
| 5       | 3     | 7           | 64.3             | 1616                   | 1765                   | 5.665882       |                         |
| 6       | 2     | 7           | 79               | 1099                   | -                      | 7.377851       |                         |
| 7       | 2     | 7           | 99.4             | 1835                   | -                      | 8.155227       |                         |
| 8       | 1     | 7           | 96.6             | -                      | -                      | 9.48979        |                         |
| 9       | 2     | 7           | 53.5             | 1422                   | -                      | 10.71323       |                         |
| 10      | 2     | 7           | 50.1             | 1143                   | -                      | 11.016837      |                         |

## Bin5 Statistics 9

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 14          | 89.6             | 1140                   | -                      | 0.535654       | 1                       |
| 1       | 2     | 14          | 57.3             | 1319                   | -                      | 1.01935        |                         |
| 2       | 2     | 14          | 50.5             | 1954                   | -                      | 1.331316       |                         |
| 3       | 2     | 14          | 73.7             | 1556                   | -                      | 2.078259       |                         |
| 4       | 3     | 14          | 82.9             | 1971                   | 1677                   | 2.814189       |                         |
| 5       | 1     | 14          | 90.5             | -                      | -                      | 3.695714       |                         |
| 6       | 2     | 14          | 55.7             | 1789                   | -                      | 3.970721       |                         |
| 7       | 2     | 14          | 81.7             | 1644                   | -                      | 4.688167       |                         |
| 8       | 1     | 14          | 51.2             | -                      | -                      | 5.555072       |                         |
| 9       | 2     | 14          | 60.4             | 1971                   | -                      | 5.885569       |                         |
| 10      | 3     | 14          | 57.8             | 1229                   | 1143                   | 6.717242       |                         |
| 11      | 3     | 14          | 64.7             | 1538                   | 1396                   | 7.107743       |                         |
| 12      | 1     | 14          | 71.5             | -                      | -                      | 8.022532       |                         |
| 13      | 2     | 14          | 64               | 1905                   | -                      | 8.532734       |                         |
| 14      | 3     | 14          | 69.6             | 1151                   | 1056                   | 9.044973       |                         |
| 15      | 2     | 14          | 54.1             | 1496                   | -                      | 9.558046       |                         |
| 16      | 3     | 14          | 56.5             | 1041                   | 1944                   | 10.485228      |                         |
| 17      | 3     | 14          | 86               | 1690                   | 1589                   | 11.049602      |                         |
| 18      | 3     | 14          | 57.2             | 1849                   | 1065                   | 11.847454      |                         |

## Bin5 Statistics 10

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 15          | 68.4             | 1696                   | -                      | 0.289195       | 1                       |
| 1       | 2     | 15          | 74.6             | 1466                   | -                      | 1.152865       |                         |
| 2       | 1     | 15          | 85.6             | -                      | -                      | 1.357269       |                         |
| 3       | 2     | 15          | 78.6             | 1532                   | -                      | 2.446105       |                         |
| 4       | 2     | 15          | 91.2             | 1341                   | -                      | 2.810388       |                         |
| 5       | 2     | 15          | 83.9             | 1421                   | -                      | 3.979765       |                         |
| 6       | 2     | 15          | 52.8             | 1974                   | -                      | 4.312057       |                         |
| 7       | 2     | 15          | 95               | 1957                   | -                      | 4.818051       |                         |
| 8       | 2     | 15          | 78.3             | 1098                   | -                      | 5.760476       |                         |
| 9       | 1     | 15          | 98.6             | -                      | -                      | 6.243482       |                         |
| 10      | 2     | 15          | 93.1             | 1728                   | -                      | 6.940734       |                         |
| 11      | 2     | 15          | 52.5             | 1335                   | -                      | 7.414235       |                         |
| 12      | 1     | 15          | 74.3             | -                      | -                      | 8.009842       |                         |
| 13      | 2     | 15          | 96.6             | 1661                   | -                      | 8.969773       |                         |
| 14      | 1     | 15          | 53.6             | -                      | -                      | 9.711906       |                         |
| 15      | 1     | 15          | 93               | -                      | -                      | 10.463959      |                         |
| 16      | 2     | 15          | 59.6             | 1872                   | -                      | 10.714132      |                         |
| 17      | 2     | 15          | 98.3             | 1434                   | -                      | 11.753155      |                         |

## Bin5 Statistics 11

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 20          | 94.3             | 1730                   | -                      | 0.097633       | 1                       |
| 1       | 2     | 20          | 50.6             | 1944                   | -                      | 1.364641       |                         |
| 2       | 2     | 20          | 73.4             | 1202                   | -                      | 1.758648       |                         |
| 3       | 3     | 20          | 97.6             | 1044                   | 1749                   | 2.825028       |                         |
| 4       | 2     | 20          | 58.1             | 1875                   | -                      | 3.29899        |                         |
| 5       | 2     | 20          | 77.8             | 1762                   | -                      | 4.309056       |                         |
| 6       | 3     | 20          | 59.2             | 1760                   | 1657                   | 4.71087        |                         |
| 7       | 2     | 20          | 52.2             | 1996                   | -                      | 5.508101       |                         |
| 8       | 3     | 20          | 94               | 1795                   | 1941                   | 6.238606       |                         |
| 9       | 1     | 20          | 51.3             | -                      | -                      | 6.881686       |                         |
| 10      | 2     | 20          | 61.4             | 1590                   | -                      | 7.740667       |                         |
| 11      | 2     | 20          | 99.3             | 1606                   | -                      | 8.70025        |                         |
| 12      | 1     | 20          | 56.7             | -                      | -                      | 9.608457       |                         |
| 13      | 2     | 20          | 52.4             | 1575                   | -                      | 9.888496       |                         |
| 14      | 1     | 20          | 80.4             | -                      | -                      | 11.107251      |                         |
| 15      | 1     | 20          | 96.7             | -                      | -                      | 11.566077      |                         |

## 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     | 17          | 73.4             | 1860                   | -                      | 0.896811       | 1                       |
| 1       | 1     | 17          | 60.1             | -                      | -                      | 1.159275       |                         |
| 2       | 3     | 17          | 87.8             | 1566                   | 1137                   | 2.510067       |                         |
| 3       | 2     | 17          | 57.2             | 1245                   | -                      | 3.590467       |                         |
| 4       | 2     | 17          | 62.3             | 1740                   | -                      | 4.455986       |                         |
| 5       | 2     | 17          | 59.8             | 1142                   | -                      | 5.78914        |                         |
| 6       | 2     | 17          | 90.8             | 1939                   | -                      | 7.240059       |                         |
| 7       | 1     | 17          | 98.9             | -                      | -                      | 7.906651       |                         |
| 8       | 2     | 17          | 76               | 1269                   | -                      | 9.484514       |                         |
| 9       | 2     | 17          | 81.8             | 1983                   | -                      | 10.533284      |                         |
| 10      | 2     | 17          | 65.9             | 1820                   | -                      | 11.487809      |                         |

## Bin5 Statistics 13

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 15          | 72.3             | 1042                   | -                      | 0.235927       | 1                       |
| 1       | 2     | 15          | 77.2             | 1213                   | -                      | 1.63218        |                         |
| 2       | 2     | 15          | 73.5             | 1143                   | -                      | 2.901185       |                         |
| 3       | 2     | 15          | 71.1             | 1897                   | -                      | 3.584693       |                         |
| 4       | 2     | 15          | 97               | 1736                   | -                      | 4.498345       |                         |
| 5       | 3     | 15          | 99.9             | 1901                   | 1276                   | 5.639708       |                         |
| 6       | 2     | 15          | 92.3             | 1454                   | -                      | 6.114549       |                         |
| 7       | 2     | 15          | 87.4             | 1251                   | -                      | 7.908074       |                         |
| 8       | 3     | 15          | 64.9             | 1541                   | 1275                   | 8.258663       |                         |
| 9       | 3     | 15          | 89.8             | 1254                   | 1055                   | 9.737674       |                         |
| 10      | 1     | 15          | 86.6             | -                      | -                      | 10.884187      |                         |
| 11      | 1     | 15          | 50.3             | -                      | -                      | 11.031764      |                         |

## Bin5 Statistics 14

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 14          | 87.4             | 1366                   | -                      | 0.323491       | 1                       |
| 1       | 2     | 14          | 57               | 1662                   | -                      | 1.455297       |                         |
| 2       | 1     | 14          | 69.3             | -                      | -                      | 1.733821       |                         |
| 3       | 2     | 14          | 85.3             | 1705                   | -                      | 2.62116        |                         |
| 4       | 2     | 14          | 87.6             | 1437                   | -                      | 3.758415       |                         |
| 5       | 1     | 14          | 93.9             | -                      | -                      | 4.664101       |                         |
| 6       | 1     | 14          | 60.4             | -                      | -                      | 4.996771       |                         |
| 7       | 2     | 14          | 51.7             | 1586                   | -                      | 5.900311       |                         |
| 8       | 2     | 14          | 99.6             | 1316                   | -                      | 7.094561       |                         |
| 9       | 1     | 14          | 62.3             | -                      | -                      | 7.378892       |                         |
| 10      | 2     | 14          | 67               | 1378                   | -                      | 8.056034       |                         |
| 11      | 2     | 14          | 92               | 1302                   | -                      | 9.521911       |                         |
| 12      | 2     | 14          | 54.8             | 1821                   | -                      | 10.026796      |                         |
| 13      | 3     | 14          | 85.4             | 1799                   | 1371                   | 10.638228      |                         |
| 14      | 2     | 14          | 80               | 1909                   | -                      | 11.723597      |                         |

## 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     | 8           | 78.6             | 1922                   | -                      | 0.235268       | 1                       |
| 1       | 3     | 8           | 79.4             | 1882                   | 1452                   | 1.21502        |                         |
| 2       | 2     | 8           | 83               | 1659                   | -                      | 1.722924       |                         |
| 3       | 3     | 8           | 99               | 1175                   | 1036                   | 2.346612       |                         |
| 4       | 2     | 8           | 91.1             | 1798                   | -                      | 3.55759        |                         |
| 5       | 3     | 8           | 60.5             | 1551                   | 1142                   | 3.798137       |                         |
| 6       | 2     | 8           | 58.5             | 1006                   | -                      | 4.501224       |                         |
| 7       | 2     | 8           | 59               | 1278                   | -                      | 5.268088       |                         |
| 8       | 2     | 8           | 82.7             | 1003                   | -                      | 6.539987       |                         |
| 9       | 2     | 8           | 96               | 1426                   | -                      | 7.056377       |                         |
| 10      | 1     | 8           | 73.6             | -                      | -                      | 8.157232       |                         |
| 11      | 2     | 8           | 72.5             | 1305                   | -                      | 8.406969       |                         |
| 12      | 1     | 8           | 88               | -                      | -                      | 9.107256       |                         |
| 13      | 2     | 8           | 56.7             | 1854                   | -                      | 9.879015       |                         |
| 14      | 2     | 8           | 99.5             | 1031                   | -                      | 11.213883      |                         |
| 15      | 2     | 8           | 72               | 1623                   | -                      | 11.467657      |                         |

## 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     | 14          | 78.4             | 1809                   | -                      | 0.185184       | 1                       |
| 1       | 2     | 14          | 66.1             | 1485                   | -                      | 1.152421       |                         |
| 2       | 2     | 14          | 69.1             | 1704                   | -                      | 1.81203        |                         |
| 3       | 1     | 14          | 53.3             | -                      | -                      | 2.019115       |                         |
| 4       | 3     | 14          | 58.6             | 1299                   | 1621                   | 3.054          |                         |
| 5       | 2     | 14          | 81.8             | 1086                   | -                      | 3.489853       |                         |
| 6       | 1     | 14          | 59.4             | -                      | -                      | 4.664244       |                         |
| 7       | 3     | 14          | 75.7             | 1119                   | 1721                   | 5.194354       |                         |
| 8       | 2     | 14          | 77.1             | 1936                   | -                      | 5.976294       |                         |
| 9       | 1     | 14          | 85.6             | -                      | -                      | 6.043342       |                         |
| 10      | 2     | 14          | 70               | 1164                   | -                      | 6.767178       |                         |
| 11      | 2     | 14          | 74.3             | 1042                   | -                      | 7.939031       |                         |
| 12      | 2     | 14          | 62.2             | 1884                   | -                      | 8.521025       |                         |
| 13      | 1     | 14          | 78.2             | -                      | -                      | 8.714755       |                         |
| 14      | 2     | 14          | 98.4             | 1386                   | -                      | 9.472038       |                         |
| 15      | 2     | 14          | 68.5             | 1270                   | -                      | 10.597109      |                         |
| 16      | 2     | 14          | 60.6             | 1018                   | -                      | 11.083827      |                         |
| 17      | 3     | 14          | 88.1             | 1239                   | 1591                   | 11.386644      |                         |

## 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           | 85.1             | 1566                   | -                      | 0.684569       | 1                       |
| 1       | 3     | 6           | 89.7             | 1303                   | 1495                   | 1.167619       |                         |
| 2       | 3     | 6           | 98.5             | 1855                   | 1435                   | 1.692543       |                         |
| 3       | 1     | 6           | 99.7             | -                      | -                      | 3.082651       |                         |
| 4       | 2     | 6           | 76               | 1346                   | -                      | 3.761037       |                         |
| 5       | 3     | 6           | 55.5             | 1579                   | 1709                   | 4.003637       |                         |
| 6       | 2     | 6           | 82.9             | 1486                   | -                      | 5.192904       |                         |
| 7       | 2     | 6           | 88.1             | 1951                   | -                      | 6.190486       |                         |
| 8       | 1     | 6           | 70               | -                      | -                      | 7.097523       |                         |
| 9       | 1     | 6           | 80.4             | -                      | -                      | 7.259663       |                         |
| 10      | 1     | 6           | 85.1             | -                      | -                      | 8.263931       |                         |
| 11      | 2     | 6           | 88.3             | 1816                   | -                      | 8.885039       |                         |
| 12      | 2     | 6           | 58.8             | 1073                   | -                      | 10.071584      |                         |
| 13      | 2     | 6           | 59.4             | 1616                   | -                      | 10.874346      |                         |
| 14      | 2     | 6           | 76.8             | 1816                   | -                      | 11.803376      |                         |

## 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     | 20          | 95.3             | -                      | -                      | 0.65795        | 1                       |
| 1       | 2     | 20          | 78.6             | 1223                   | -                      | 1.861421       |                         |
| 2       | 1     | 20          | 51.6             | -                      | -                      | 2.778909       |                         |
| 3       | 3     | 20          | 90.2             | 1515                   | 1500                   | 4.038532       |                         |
| 4       | 1     | 20          | 91.3             | -                      | -                      | 5.378431       |                         |
| 5       | 2     | 20          | 58.1             | 1322                   | -                      | 6.902082       |                         |
| 6       | 2     | 20          | 92.4             | 1120                   | -                      | 7.822154       |                         |
| 7       | 1     | 20          | 66.2             | -                      | -                      | 9.025164       |                         |
| 8       | 2     | 20          | 87.2             | 1792                   | -                      | 10.023241      |                         |
| 9       | 2     | 20          | 62.9             | 1143                   | -                      | 11.61055       |                         |

## Bin5 Statistics 19

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 10          | 58.1             | 1407                   | 1857                   | 0.203377       | 1                       |
| 1       | 2     | 10          | 80.8             | 1597                   | -                      | 1.930693       |                         |
| 2       | 2     | 10          | 60.1             | 1851                   | -                      | 3.774579       |                         |
| 3       | 1     | 10          | 72.3             | -                      | -                      | 4.877629       |                         |
| 4       | 1     | 10          | 69.1             | -                      | -                      | 5.700638       |                         |
| 5       | 1     | 10          | 55.9             | -                      | -                      | 7.338477       |                         |
| 6       | 1     | 10          | 95.2             | -                      | -                      | 9.314246       |                         |
| 7       | 3     | 10          | 81.4             | 1086                   | 1119                   | 10.447258      |                         |
| 8       | 3     | 10          | 74.4             | 1596                   | 1693                   | 11.836201      |                         |

## 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          | 57.2             | -                      | -                      | 0.59605        | 1                       |
| 1       | 2     | 20          | 71.6             | 1604                   | -                      | 2.145001       |                         |
| 2       | 3     | 20          | 63.3             | 1087                   | 1656                   | 2.528337       |                         |
| 3       | 2     | 20          | 57.6             | 1327                   | -                      | 4.22526        |                         |
| 4       | 2     | 20          | 80.1             | 1638                   | -                      | 5.176994       |                         |
| 5       | 1     | 20          | 75.1             | -                      | -                      | 6.716193       |                         |
| 6       | 2     | 20          | 53.4             | 1966                   | -                      | 7.698784       |                         |
| 7       | 2     | 20          | 99.9             | 1746                   | -                      | 9.246754       |                         |
| 8       | 3     | 20          | 59.8             | 1711                   | 1290                   | 10.632576      |                         |
| 9       | 2     | 20          | 98.7             | 1692                   | -                      | 11.381766      |                         |

## Bin5 Statistics 21

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 18          | 81.4             | 1798                   | 1552                   | 0.184481       | 1                       |
| 1       | 3     | 18          | 99.3             | 1123                   | 1422                   | 0.776882       |                         |
| 2       | 2     | 18          | 65.9             | 1712                   | -                      | 1.277514       |                         |
| 3       | 2     | 18          | 55.8             | 1436                   | -                      | 2.519021       |                         |
| 4       | 2     | 18          | 57.8             | 1138                   | -                      | 2.875576       |                         |
| 5       | 2     | 18          | 60.5             | 1106                   | -                      | 3.580498       |                         |
| 6       | 3     | 18          | 76.7             | 1032                   | 1803                   | 4.136406       |                         |
| 7       | 1     | 18          | 88.9             | -                      | -                      | 5.00338        |                         |
| 8       | 3     | 18          | 58.5             | 1078                   | 1570                   | 5.188929       |                         |
| 9       | 1     | 18          | 91.9             | -                      | -                      | 6.07353        |                         |
| 10      | 2     | 18          | 89.4             | 1607                   | -                      | 6.572987       |                         |
| 11      | 2     | 18          | 84.2             | 1634                   | -                      | 7.489824       |                         |
| 12      | 3     | 18          | 73.8             | 1533                   | 1240                   | 7.897604       |                         |
| 13      | 2     | 18          | 68.7             | 1996                   | -                      | 8.22949        |                         |
| 14      | 3     | 18          | 64.7             | 1123                   | 1367                   | 9.102562       |                         |
| 15      | 1     | 18          | 63.7             | -                      | -                      | 9.685974       |                         |
| 16      | 1     | 18          | 55.1             | -                      | -                      | 10.318584      |                         |
| 17      | 1     | 18          | 98.4             | -                      | -                      | 11.278312      |                         |
| 18      | 2     | 18          | 84.9             | 1269                   | -                      | 11.811072      |                         |

## 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     | 20          | 76               | -                      | -                      | 0.602334       | 1                       |
| 1       | 3     | 20          | 60.6             | 1030                   | 1170                   | 1.765912       |                         |
| 2       | 2     | 20          | 93.6             | 1572                   | -                      | 2.234009       |                         |
| 3       | 3     | 20          | 97.8             | 1207                   | 1979                   | 3.519121       |                         |
| 4       | 1     | 20          | 90.2             | -                      | -                      | 5.365757       |                         |
| 5       | 1     | 20          | 82.9             | -                      | -                      | 5.88826        |                         |
| 6       | 1     | 20          | 98.1             | -                      | -                      | 7.616668       |                         |
| 7       | 3     | 20          | 78.1             | 1913                   | 1231                   | 8.148247       |                         |
| 8       | 3     | 20          | 98.6             | 1418                   | 1557                   | 8.989263       |                         |
| 9       | 2     | 20          | 73.7             | 1346                   | -                      | 10.707776      |                         |
| 10      | 1     | 20          | 80.1             | -                      | -                      | 11.211323      |                         |

## 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     | 7           | 82.5             | 1048                   | 1219                   | 0.955319       | 1                       |
| 1       | 1     | 7           | 59.8             | -                      | -                      | 1.068302       |                         |
| 2       | 1     | 7           | 77.7             | -                      | -                      | 2.799195       |                         |
| 3       | 3     | 7           | 91.6             | 1330                   | 1196                   | 3.563159       |                         |
| 4       | 1     | 7           | 62.4             | -                      | -                      | 4.184927       |                         |
| 5       | 2     | 7           | 51.3             | 1346                   | -                      | 5.408819       |                         |
| 6       | 2     | 7           | 98.8             | 1227                   | -                      | 6.379797       |                         |
| 7       | 2     | 7           | 56.4             | 1501                   | -                      | 7.251256       |                         |
| 8       | 2     | 7           | 54.6             | 1510                   | -                      | 8.071276       |                         |
| 9       | 2     | 7           | 91.4             | 1077                   | -                      | 9.111474       |                         |
| 10      | 2     | 7           | 93.6             | 1580                   | -                      | 10.978544      |                         |
| 11      | 2     | 7           | 86               | 1749                   | -                      | 11.233546      |                         |

## 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     | 16          | 88.1             | -                      | -                      | 0.663105       | 1                       |
| 1       | 3     | 16          | 92.8             | 1056                   | 1397                   | 1.592998       |                         |
| 2       | 3     | 16          | 67.2             | 1150                   | 1053                   | 3.392493       |                         |
| 3       | 2     | 16          | 56.2             | 1860                   | -                      | 5.016285       |                         |
| 4       | 1     | 16          | 82.3             | -                      | -                      | 5.612126       |                         |
| 5       | 2     | 16          | 54.2             | 1223                   | -                      | 7.963214       |                         |
| 6       | 2     | 16          | 79               | 1819                   | -                      | 8.95408        |                         |
| 7       | 2     | 16          | 65.2             | 1186                   | -                      | 10.288455      |                         |
| 8       | 1     | 16          | 76.9             | -                      | -                      | 11.308576      |                         |

## Bin5 Statistics 25

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 9           | 70.1             | -                      | -                      | 0.556597       | 1                       |
| 1       | 2     | 9           | 63.4             | 1237                   | -                      | 1.359105       |                         |
| 2       | 3     | 9           | 73.8             | 1395                   | 1976                   | 1.95629        |                         |
| 3       | 1     | 9           | 95.9             | -                      | -                      | 2.846919       |                         |
| 4       | 2     | 9           | 86.7             | 1853                   | -                      | 3.467996       |                         |
| 5       | 1     | 9           | 58.7             | -                      | -                      | 4.089631       |                         |
| 6       | 1     | 9           | 91.4             | -                      | -                      | 5.108276       |                         |
| 7       | 3     | 9           | 71.1             | 1501                   | 1913                   | 5.612818       |                         |
| 8       | 2     | 9           | 78.2             | 1977                   | -                      | 6.42263        |                         |
| 9       | 1     | 9           | 94.9             | -                      | -                      | 7.315534       |                         |
| 10      | 2     | 9           | 50.8             | 1877                   | -                      | 7.829466       |                         |
| 11      | 3     | 9           | 80               | 1659                   | 1174                   | 8.54177        |                         |
| 12      | 1     | 9           | 73.9             | -                      | -                      | 9.027742       |                         |
| 13      | 2     | 9           | 62.1             | 1956                   | -                      | 10.095584      |                         |
| 14      | 2     | 9           | 73.2             | 1738                   | -                      | 10.875902      |                         |
| 15      | 2     | 9           | 98.1             | 1137                   | -                      | 11.504656      |                         |

## Bin5 Statistics 26

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (µS) | Pulse 2-3 spacing (µS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 19          | 70.6             | 1061                   | -                      | 0.625022       | 1                       |
| 1       | 3     | 19          | 55.8             | 1029                   | 1324                   | 0.692623       |                         |
| 2       | 3     | 19          | 79.5             | 1518                   | 1440                   | 1.553549       |                         |
| 3       | 3     | 19          | 56.8             | 1866                   | 1288                   | 2.430582       |                         |
| 4       | 1     | 19          | 71.3             | -                      | -                      | 2.72084        |                         |
| 5       | 2     | 19          | 67.3             | 1646                   | -                      | 3.40832        |                         |
| 6       | 3     | 19          | 67.3             | 1201                   | 1622                   | 4.625051       |                         |
| 7       | 2     | 19          | 82.4             | 1354                   | -                      | 5.131856       |                         |
| 8       | 2     | 19          | 94.2             | 1877                   | -                      | 5.521805       |                         |
| 9       | 2     | 19          | 74.7             | 1844                   | -                      | 6.348227       |                         |
| 10      | 1     | 19          | 80.4             | -                      | -                      | 6.944798       |                         |
| 11      | 1     | 19          | 53               | -                      | -                      | 7.736875       |                         |
| 12      | 2     | 19          | 74.9             | 1278                   | -                      | 8.142672       |                         |
| 13      | 2     | 19          | 92.8             | 1244                   | -                      | 8.821737       |                         |
| 14      | 2     | 19          | 72               | 1783                   | -                      | 9.400079       |                         |
| 15      | 1     | 19          | 75               | -                      | -                      | 10.657166      |                         |
| 16      | 3     | 19          | 53.5             | 1160                   | 1040                   | 11.153052      |                         |
| 17      | 1     | 19          | 87.4             | -                      | -                      | 11.991189      |                         |

## 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     | 6           | 94.2             | 1424                   | -                      | 0.207529       | 1                       |
| 1       | 2     | 6           | 51.6             | 1843                   | -                      | 2.022535       |                         |
| 2       | 3     | 6           | 97.8             | 1968                   | 1675                   | 3.003994       |                         |
| 3       | 2     | 6           | 76               | 1950                   | -                      | 4.071331       |                         |
| 4       | 3     | 6           | 72.9             | 1308                   | 1014                   | 4.426297       |                         |
| 5       | 1     | 6           | 87.5             | -                      | -                      | 5.660027       |                         |
| 6       | 2     | 6           | 57               | 1363                   | -                      | 7.563947       |                         |
| 7       | 2     | 6           | 89.4             | 1328                   | -                      | 8.049278       |                         |
| 8       | 2     | 6           | 58.9             | 1116                   | -                      | 9.194245       |                         |
| 9       | 2     | 6           | 91.2             | 1316                   | -                      | 10.728485      |                         |
| 10      | 1     | 6           | 58.7             | -                      | -                      | 11.411393      |                         |

## Bin5 Statistics 28

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 17          | 94.9             | 1845                   | -                      | 0.104112       | 1                       |
| 1       | 2     | 17          | 66.8             | 1681                   | -                      | 1.047394       |                         |
| 2       | 3     | 17          | 81.6             | 1274                   | 1988                   | 1.493779       |                         |
| 3       | 2     | 17          | 82.4             | 1202                   | -                      | 2.05107        |                         |
| 4       | 1     | 17          | 80.5             | -                      | -                      | 2.810156       |                         |
| 5       | 3     | 17          | 56.2             | 1572                   | 1881                   | 3.435339       |                         |
| 6       | 2     | 17          | 79.8             | 1688                   | -                      | 4.370628       |                         |
| 7       | 3     | 17          | 70.7             | 1474                   | 1313                   | 4.939639       |                         |
| 8       | 2     | 17          | 82.7             | 1593                   | -                      | 5.595186       |                         |
| 9       | 2     | 17          | 54.9             | 1198                   | -                      | 5.964048       |                         |
| 10      | 2     | 17          | 50.1             | 1054                   | -                      | 6.648061       |                         |
| 11      | 1     | 17          | 68.5             | -                      | -                      | 7.388556       |                         |
| 12      | 3     | 17          | 95.1             | 1568                   | 1097                   | 7.584974       |                         |
| 13      | 1     | 17          | 79               | -                      | -                      | 8.355713       |                         |
| 14      | 2     | 17          | 76.9             | 1340                   | -                      | 8.998436       |                         |
| 15      | 1     | 17          | 97.7             | -                      | -                      | 9.999118       |                         |
| 16      | 2     | 17          | 79.9             | 1003                   | -                      | 10.609701      |                         |
| 17      | 1     | 17          | 84.4             | -                      | -                      | 11.131479      |                         |
| 18      | 3     | 17          | 73.3             | 1039                   | 1068                   | 11.568049      |                         |

## 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     | 12          | 50.3             | 1633                   | -                      | 0.636005       | 1                       |
| 1       | 2     | 12          | 62.4             | 1555                   | -                      | 1.094133       |                         |
| 2       | 2     | 12          | 89.2             | 1628                   | -                      | 1.883772       |                         |
| 3       | 2     | 12          | 79.1             | 1575                   | -                      | 2.802901       |                         |
| 4       | 3     | 12          | 51.3             | 1446                   | 1896                   | 3.513665       |                         |
| 5       | 2     | 12          | 52.7             | 1317                   | -                      | 3.799702       |                         |
| 6       | 2     | 12          | 94.8             | 1727                   | -                      | 5.04182        |                         |
| 7       | 2     | 12          | 78.2             | 1929                   | -                      | 5.724127       |                         |
| 8       | 2     | 12          | 60               | 1581                   | -                      | 6.055251       |                         |
| 9       | 2     | 12          | 56.1             | 1363                   | -                      | 7.135824       |                         |
| 10      | 1     | 12          | 60.2             | -                      | -                      | 8.00104        |                         |
| 11      | 2     | 12          | 93.8             | 1373                   | -                      | 8.965885       |                         |
| 12      | 2     | 12          | 92.7             | 1442                   | -                      | 9.715482       |                         |
| 13      | 2     | 12          | 98.9             | 1559                   | -                      | 10.131814      |                         |
| 14      | 2     | 12          | 61.3             | 1020                   | -                      | 10.843165      |                         |
| 15      | 1     | 12          | 73.6             | -                      | -                      | 11.899529      |                         |

## 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     | 14          | 68.4             | 1313                   | -                      | 0.166382       | 1                       |
| 1       | 1     | 14          | 51.8             | -                      | -                      | 1.132648       |                         |
| 2       | 1     | 14          | 95.6             | -                      | -                      | 1.683961       |                         |
| 3       | 1     | 14          | 95.4             | -                      | -                      | 2.299532       |                         |
| 4       | 2     | 14          | 52.9             | 1684                   | -                      | 2.859597       |                         |
| 5       | 3     | 14          | 80.4             | 1431                   | 1765                   | 3.775446       |                         |
| 6       | 2     | 14          | 55.6             | 1487                   | -                      | 3.968014       |                         |
| 7       | 1     | 14          | 79.8             | -                      | -                      | 4.872434       |                         |
| 8       | 3     | 14          | 91.4             | 1213                   | 1316                   | 5.143935       |                         |
| 9       | 2     | 14          | 61.4             | 1365                   | -                      | 6.209799       |                         |
| 10      | 2     | 14          | 97.8             | 1901                   | -                      | 6.433087       |                         |
| 11      | 1     | 14          | 95.5             | -                      | -                      | 7.035103       |                         |
| 12      | 2     | 14          | 91.1             | 1403                   | -                      | 7.943634       |                         |
| 13      | 2     | 14          | 66.9             | 1131                   | -                      | 8.364878       |                         |
| 14      | 3     | 14          | 86.4             | 1409                   | 1889                   | 9.012955       |                         |
| 15      | 2     | 14          | 59.1             | 1298                   | -                      | 9.760891       |                         |
| 16      | 1     | 14          | 93.6             | -                      | -                      | 10.263271      |                         |
| 17      | 3     | 14          | 57.5             | 1857                   | 1590                   | 11.144341      |                         |
| 18      | 1     | 14          | 76.3             | -                      | -                      | 11.477999      |                         |

**Table-6 Radar Type 6 Statistical Performance**

| <b>Trial #</b> | <b>Fc (MHz)</b> | <b>Pulse /Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> | <b>Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-----------------|---------------------|-------------------------|-----------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 5530            | 9                   | 1                       | 333             | 1                              | 5694.0, 5483.0, 5432.0, 5356.0, 5419.0, 5424.0, 5344.0, 5529.0, 5492.0, 5486.0, 5485.0, 5439.0, 5674.0, 5479.0, 5666.0, 5430.0, 5715.0, 5303.0, 5578.0, 5339.0, 5713.0, 5298.0, 5269.0, 5342.0, 5482.0, 5370.0, 5305.0, 5448.0, 5552.0, 5394.0, 5609.0, 5626.0, 5500.0, 5477.0, 5708.0, 5700.0, 5528.0, 5568.0, 5520.0, 5426.0, 5619.0, 5524.0, 5471.0, 5352.0, 5493.0, 5526.0, 5721.0, 5663.0, 5278.0, 5403.0, 5587.0, 5282.0, 5650.0, 5695.0, 5579.0, 5589.0, 5662.0, 5293.0, 5301.0, 5377.0, 5415.0, 5681.0, 5256.0, 5511.0, 5563.0, 5675.0, 5533.0, 5455.0, 5595.0, 5572.0, 5385.0, 5451.0, 5381.0, 5348.0, 5561.0, 5627.0, 5570.0, 5673.0, 5603.0, 5716.0, 5280.0, 5473.0, 5271.0, 5400.0, 5494.0, 5373.0, 5333.0, 5698.0, 5657.0, 5441.0, 5365.0, 5624.0, 5532.0, 5462.0, 5369.0, 5447.0, 5625.0, 5688.0, 5300.0, 5608.0<br>(number of hits: 15 ) |
| 2              | 5530            | 9                   | 1                       | 333             | 1                              | 5697.0, 5546.0, 5506.0, 5454.0, 5511.0, 5635.0, 5459.0, 5578.0, 5296.0, 5388.0, 5333.0, 5675.0, 5673.0, 5374.0, 5581.0, 5631.0, 5518.0, 5654.0, 5626.0, 5672.0, 5455.0, 5662.0, 5496.0, 5365.0, 5495.0, 5575.0, 5494.0, 5326.0, 5613.0, 5620.0, 5522.0, 5617.0, 5438.0, 5369.0, 5623.0, 5665.0, 5300.0, 5661.0, 5263.0, 5491.0, 5515.0, 5402.0, 5398.0, 5436.0, 5604.0, 5337.0, 5316.0, 5416.0, 5519.0, 5606.0, 5288.0, 5677.0, 5616.0, 5684.0, 5355.0, 5567.0, 5362.0, 5717.0, 5359.0, 5533.0, 5503.0, 5537.0, 5538.0, 5703.0, 5352.0, 5322.0, 5599.0, 5358.0, 5646.0, 5332.0, 5265.0, 5294.0, 5411.0, 5514.0, 5252.0, 5698.0, 5269.0, 5481.0, 5630.0, 5632.0, 5325.0, 5722.0, 5335.0, 5570.0, 5562.0, 5490.0, 5489.0, 5592.0, 5600.0, 5370.0, 5560.0, 5439.0, 5464.0, 5584.0, 5482.0, 5607.0, 5433.0, 5351.0, 5468.0, 5389.0<br>(number of hits: 18 ) |
| 3              | 5530            | 9                   | 1                       | 333             | 1                              | 5364.0, 5475.0, 5440.0, 5384.0, 5443.0, 5566.0, 5633.0, 5435.0, 5256.0, 5446.0, 5508.0, 5250.0, 5653.0, 5412.0, 5547.0, 5379.0, 5269.0, 5374.0, 5311.0, 5723.0, 5559.0, 5535.0, 5562.0, 5358.0, 5479.0, 5333.0, 5434.0, 5601.0, 5582.0, 5315.0, 5568.0, 5428.0, 5580.0, 5710.0, 5587.0, 5514.0, 5607.0, 5635.0, 5573.0, 5551.0, 5285.0, 5258.0, 5663.0, 5406.0, 5390.0, 5418.0, 5282.0, 5480.0, 5492.0, 5617.0, 5324.0, 5655.0, 5703.0, 5303.0, 5489.0, 5595.0, 5253.0, 5515.0, 5474.0, 5458.0, 5410.0, 5631.0, 5424.0, 5451.0, 5400.0                                                                                                                                                                                                                                                                                                                  |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5616.0, 5388.0, 5298.0, 5513.0, 5439.0, 5467.0, 5375.0, 5265.0, 5505.0, 5585.0, 5651.0, 5425.0, 5423.0, 5642.0, 5332.0, 5350.0, 5521.0, 5630.0, 5584.0, 5520.0, 5532.0, 5445.0, 5565.0, 5444.0, 5598.0, 5495.0, 5605.0, 5693.0, 5615.0, 5570.0, 5680.0, 5277.0, 5579.0, 5523.0, 5618.0<br>(number of hits: 18 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4 | 5530 | 9 | 1 | 333 | 1 | 5466.0, 5522.0, 5542.0, 5268.0, 5276.0, 5312.0, 5621.0, 5380.0, 5357.0, 5366.0, 5448.0, 5391.0, 5670.0, 5478.0, 5689.0, 5415.0, 5551.0, 5360.0, 5569.0, 5389.0, 5529.0, 5365.0, 5295.0, 5526.0, 5552.0, 5379.0, 5409.0, 5480.0, 5521.0, 5408.0, 5308.0, 5433.0, 5562.0, 5513.0, 5508.0, 5479.0, 5602.0, 5638.0, 5611.0, 5279.0, 5495.0, 5284.0, 5655.0, 5472.0, 5642.0, 5251.0, 5488.0, 5261.0, 5556.0, 5707.0, 5250.0, 5654.0, 5700.0, 5677.0, 5696.0, 5318.0, 5403.0, 5431.0, 5399.0, 5534.0, 5281.0, 5674.0, 5351.0, 5641.0, 5702.0, 5548.0, 5662.0, 5712.0, 5561.0, 5393.0, 5459.0, 5286.0, 5493.0, 5377.0, 5502.0, 5311.0, 5694.0, 5298.0, 5713.0, 5370.0, 5639.0, 5593.0, 5432.0, 5416.0, 5708.0, 5334.0, 5290.0, 5624.0, 5302.0, 5364.0, 5443.0, 5504.0, 5310.0, 5285.0, 5550.0, 5455.0, 5506.0, 5630.0, 5266.0, 5392.0<br>(number of hits: 20 ) |
| 5 | 5530 | 9 | 1 | 333 | 1 | 5402.0, 5503.0, 5678.0, 5305.0, 5558.0, 5276.0, 5312.0, 5622.0, 5652.0, 5281.0, 5723.0, 5523.0, 5410.0, 5609.0, 5433.0, 5258.0, 5478.0, 5468.0, 5436.0, 5577.0, 5473.0, 5639.0, 5670.0, 5673.0, 5335.0, 5460.0, 5477.0, 5550.0, 5724.0, 5317.0, 5479.0, 5689.0, 5711.0, 5451.0, 5475.0, 5681.0, 5719.0, 5350.0, 5697.0, 5261.0, 5342.0, 5501.0, 5428.0, 5506.0, 5316.0, 5628.0, 5511.0, 5398.0, 5563.0, 5568.0, 5300.0, 5476.0, 5293.0, 5330.0, 5551.0, 5391.0, 5303.0, 5662.0, 5579.0, 5566.0, 5611.0, 5505.0, 5522.0, 5419.0, 5285.0, 5262.0, 5593.0, 5643.0, 5527.0, 5706.0, 5512.0, 5362.0, 5564.0, 5360.0, 5337.0, 5710.0, 5524.0, 5519.0, 5375.0, 5535.0, 5404.0, 5278.0, 5370.0, 5489.0, 5562.0, 5630.0, 5582.0, 5718.0, 5319.0, 5571.0, 5385.0, 5525.0, 5290.0, 5585.0, 5273.0, 5295.0, 5510.0, 5526.0, 5405.0, 5546.0<br>(number of hits: 23 ) |
| 6 | 5530 | 9 | 1 | 333 | 1 | 5269.0, 5594.0, 5658.0, 5721.0, 5426.0, 5548.0, 5589.0, 5423.0, 5349.0, 5336.0, 5281.0, 5333.0, 5364.0, 5507.0, 5665.0, 5583.0, 5370.0, 5320.0, 5708.0, 5316.0, 5640.0, 5258.0, 5605.0, 5355.0, 5454.0, 5634.0, 5273.0, 5371.0, 5669.0, 5635.0, 5663.0, 5377.0, 5382.0, 5673.0, 5282.0, 5619.0, 5408.0, 5562.0, 5674.0, 5335.0, 5711.0, 5720.0, 5679.0, 5367.0, 5608.0, 5675.0, 5624.0, 5313.0, 5513.0, 5348.0,                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5263.0, 5369.0, 5362.0, 5489.0, 5681.0, 5366.0, 5716.0, 5581.0, 5524.0, 5545.0, 5453.0, 5590.0, 5311.0, 5557.0, 5618.0, 5421.0, 5709.0, 5272.0, 5487.0, 5257.0, 5615.0, 5255.0, 5660.0, 5689.0, 5565.0, 5251.0, 5279.0, 5354.0, 5260.0, 5697.0, 5491.0, 5666.0, 5427.0, 5490.0, 5686.0, 5620.0, 5422.0, 5668.0, 5683.0, 5296.0, 5645.0, 5482.0, 5542.0, 5390.0, 5636.0, 5383.0, 5495.0, 5259.0, 5626.0, 5299.0<br>(number of hits: 10 )                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 7 | 5530 | 9 | 1 | 333 | 1 | 5475.0, 5673.0, 5633.0, 5609.0, 5421.0, 5703.0, 5601.0, 5510.0, 5598.0, 5648.0, 5611.0, 5493.0, 5556.0, 5371.0, 5563.0, 5353.0, 5617.0, 5530.0, 5379.0, 5391.0, 5404.0, 5324.0, 5671.0, 5664.0, 5521.0, 5314.0, 5614.0, 5618.0, 5388.0, 5603.0, 5585.0, 5283.0, 5301.0, 5577.0, 5706.0, 5695.0, 5713.0, 5640.0, 5678.0, 5384.0, 5427.0, 5292.0, 5534.0, 5389.0, 5537.0, 5533.0, 5257.0, 5501.0, 5287.0, 5305.0, 5580.0, 5698.0, 5274.0, 5390.0, 5658.0, 5297.0, 5616.0, 5570.0, 5424.0, 5575.0, 5345.0, 5331.0, 5422.0, 5356.0, 5681.0, 5669.0, 5551.0, 5433.0, 5496.0, 5349.0, 5254.0, 5374.0, 5504.0, 5711.0, 5412.0, 5278.0, 5465.0, 5251.0, 5514.0, 5302.0, 5708.0, 5456.0, 5253.0, 5688.0, 5699.0, 5670.0, 5629.0, 5300.0, 5509.0, 5694.0, 5333.0, 5483.0, 5701.0, 5256.0, 5359.0, 5449.0, 5258.0, 5340.0, 5444.0, 5554.0<br>(number of hits: 16 ) |
| 8 | 5530 | 9 | 1 | 333 | 1 | 5618.0, 5382.0, 5288.0, 5293.0, 5411.0, 5566.0, 5450.0, 5341.0, 5615.0, 5274.0, 5419.0, 5346.0, 5272.0, 5423.0, 5520.0, 5586.0, 5265.0, 5271.0, 5457.0, 5571.0, 5456.0, 5652.0, 5610.0, 5703.0, 5468.0, 5268.0, 5436.0, 5545.0, 5393.0, 5660.0, 5517.0, 5649.0, 5330.0, 5323.0, 5623.0, 5449.0, 5443.0, 5670.0, 5593.0, 5547.0, 5452.0, 5284.0, 5626.0, 5261.0, 5477.0, 5499.0, 5685.0, 5637.0, 5575.0, 5723.0, 5636.0, 5662.0, 5551.0, 5607.0, 5251.0, 5522.0, 5714.0, 5554.0, 5446.0, 5470.0, 5608.0, 5645.0, 5567.0, 5421.0, 5433.0, 5561.0, 5414.0, 5302.0, 5665.0, 5362.0, 5484.0, 5372.0, 5371.0, 5650.0, 5273.0, 5374.0, 5300.0, 5562.0, 5415.0, 5471.0, 5510.0, 5358.0, 5628.0, 5348.0, 5680.0, 5582.0, 5356.0, 5599.0, 5275.0, 5679.0, 5708.0, 5473.0, 5308.0, 5674.0, 5497.0, 5316.0, 5260.0, 5641.0, 5624.0, 5531.0<br>(number of hits: 15 ) |
| 9 | 5530 | 9 | 1 | 333 | 1 | 5603.0, 5527.0, 5515.0, 5411.0, 5293.0, 5323.0, 5508.0, 5385.0, 5595.0, 5539.0, 5610.0, 5636.0, 5613.0, 5322.0, 5676.0, 5419.0, 5579.0, 5267.0, 5547.0, 5623.0, 5266.0, 5455.0, 5256.0, 5599.0, 5706.0, 5668.0, 5482.0, 5538.0, 5644.0, 5526.0, 5641.0, 5276.0, 5628.0, 5686.0, 5535.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5397.0, 5663.0, 5721.0, 5649.0, 5622.0, 5444.0, 5437.0, 5433.0, 5400.0, 5602.0, 5374.0, 5368.0, 5617.0, 5568.0, 5461.0, 5551.0, 5666.0, 5310.0, 5529.0, 5499.0, 5467.0, 5557.0, 5307.0, 5513.0, 5563.0, 5299.0, 5517.0, 5273.0, 5325.0, 5525.0, 5601.0, 5409.0, 5331.0, 5401.0, 5360.0, 5660.0, 5701.0, 5597.0, 5646.0, 5253.0, 5716.0, 5384.0, 5514.0, 5585.0, 5705.0, 5519.0, 5440.0, 5357.0, 5351.0, 5593.0, 5578.0, 5675.0, 5457.0, 5264.0, 5584.0, 5707.0, 5336.0, 5334.0, 5611.0, 5665.0, 5629.0, 5287.0, 5306.0, 5345.0, 5518.0<br>(number of hits: 19 )                                                                                                                                                                                                                                                                                         |
| 10 | 5530 | 9 | 1 | 333 | 1 | 5251.0, 5711.0, 5636.0, 5357.0, 5709.0, 5337.0, 5320.0, 5322.0, 5610.0, 5625.0, 5406.0, 5718.0, 5597.0, 5545.0, 5307.0, 5343.0, 5524.0, 5608.0, 5280.0, 5385.0, 5506.0, 5305.0, 5663.0, 5631.0, 5492.0, 5485.0, 5379.0, 5454.0, 5508.0, 5590.0, 5552.0, 5687.0, 5321.0, 5570.0, 5686.0, 5606.0, 5470.0, 5390.0, 5351.0, 5477.0, 5464.0, 5423.0, 5329.0, 5644.0, 5548.0, 5424.0, 5577.0, 5355.0, 5518.0, 5576.0, 5519.0, 5611.0, 5462.0, 5591.0, 5334.0, 5633.0, 5325.0, 5292.0, 5494.0, 5400.0, 5475.0, 5497.0, 5394.0, 5615.0, 5484.0, 5411.0, 5483.0, 5513.0, 5614.0, 5289.0, 5526.0, 5697.0, 5333.0, 5646.0, 5444.0, 5350.0, 5388.0, 5436.0, 5592.0, 5425.0, 5658.0, 5348.0, 5554.0, 5358.0, 5422.0, 5255.0, 5685.0, 5335.0, 5430.0, 5503.0, 5627.0, 5634.0, 5544.0, 5447.0, 5298.0, 5472.0, 5642.0, 5609.0, 5452.0, 5338.0<br>(number of hits: 16 ) |
| 11 | 5530 | 9 | 1 | 333 | 1 | 5462.0, 5468.0, 5287.0, 5641.0, 5434.0, 5435.0, 5512.0, 5568.0, 5550.0, 5558.0, 5482.0, 5615.0, 5478.0, 5703.0, 5275.0, 5683.0, 5402.0, 5385.0, 5661.0, 5456.0, 5571.0, 5477.0, 5427.0, 5721.0, 5613.0, 5499.0, 5276.0, 5723.0, 5311.0, 5716.0, 5383.0, 5490.0, 5259.0, 5304.0, 5460.0, 5511.0, 5447.0, 5707.0, 5312.0, 5673.0, 5465.0, 5700.0, 5371.0, 5517.0, 5325.0, 5692.0, 5484.0, 5566.0, 5532.0, 5386.0, 5712.0, 5506.0, 5315.0, 5574.0, 5408.0, 5690.0, 5467.0, 5274.0, 5653.0, 5341.0, 5588.0, 5407.0, 5698.0, 5695.0, 5393.0, 5619.0, 5563.0, 5252.0, 5485.0, 5461.0, 5475.0, 5556.0, 5523.0, 5346.0, 5270.0, 5636.0, 5701.0, 5398.0, 5396.0, 5678.0, 5525.0, 5458.0, 5658.0, 5508.0, 5265.0, 5269.0, 5261.0, 5488.0, 5448.0, 5481.0, 5606.0, 5543.0, 5357.0, 5293.0, 5504.0, 5399.0, 5388.0, 5313.0, 5277.0, 5292.0<br>(number of hits: 16 ) |
| 12 | 5530 | 9 | 1 | 333 | 1 | 5675.0, 5723.0, 5672.0, 5522.0, 5285.0, 5581.0, 5525.0, 5388.0, 5670.0, 5513.0, 5376.0, 5364.0, 5475.0, 5251.0, 5570.0, 5425.0, 5315.0, 5588.0, 5409.0, 5684.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5253.0, 5514.0, 5702.0, 5419.0, 5293.0, 5324.0, 5344.0, 5597.0, 5408.0, 5398.0, 5643.0, 5457.0, 5391.0, 5531.0, 5610.0, 5721.0, 5678.0, 5383.0, 5287.0, 5563.0, 5696.0, 5362.0, 5410.0, 5627.0, 5501.0, 5460.0, 5621.0, 5319.0, 5679.0, 5704.0, 5549.0, 5568.0, 5322.0, 5540.0, 5342.0, 5575.0, 5666.0, 5412.0, 5481.0, 5351.0, 5372.0, 5689.0, 5445.0, 5334.0, 5356.0, 5300.0, 5695.0, 5709.0, 5263.0, 5436.0, 5653.0, 5260.0, 5365.0, 5534.0, 5384.0, 5645.0, 5440.0, 5547.0, 5380.0, 5268.0, 5378.0, 5539.0, 5625.0, 5431.0, 5311.0, 5292.0, 5680.0, 5521.0, 5310.0, 5647.0, 5611.0, 5461.0, 5420.0, 5363.0, 5601.0, 5628.0, 5366.0, 5583.0, 5265.0, 5374.0<br>(number of hits: 13 )                                                                                                                                                                 |
| 13 | 5530 | 9 | 1 | 333 | 1 | 5479.0, 5679.0, 5502.0, 5441.0, 5419.0, 5523.0, 5336.0, 5334.0, 5331.0, 5439.0, 5299.0, 5533.0, 5325.0, 5417.0, 5666.0, 5643.0, 5442.0, 5610.0, 5699.0, 5339.0, 5332.0, 5709.0, 5584.0, 5475.0, 5696.0, 5354.0, 5528.0, 5405.0, 5459.0, 5687.0, 5426.0, 5720.0, 5515.0, 5264.0, 5660.0, 5251.0, 5568.0, 5686.0, 5266.0, 5707.0, 5619.0, 5368.0, 5300.0, 5671.0, 5440.0, 5678.0, 5477.0, 5631.0, 5675.0, 5434.0, 5713.0, 5581.0, 5514.0, 5682.0, 5281.0, 5361.0, 5491.0, 5649.0, 5594.0, 5282.0, 5349.0, 5591.0, 5710.0, 5639.0, 5474.0, 5399.0, 5375.0, 5558.0, 5644.0, 5257.0, 5642.0, 5626.0, 5655.0, 5313.0, 5353.0, 5317.0, 5535.0, 5374.0, 5722.0, 5495.0, 5695.0, 5501.0, 5428.0, 5541.0, 5371.0, 5432.0, 5438.0, 5547.0, 5641.0, 5483.0, 5335.0, 5373.0, 5569.0, 5587.0, 5478.0, 5291.0, 5640.0, 5430.0, 5556.0, 5309.0<br>(number of hits: 13 ) |
| 14 | 5530 | 9 | 1 | 333 | 1 | 5411.0, 5412.0, 5581.0, 5393.0, 5641.0, 5639.0, 5371.0, 5652.0, 5397.0, 5279.0, 5446.0, 5465.0, 5421.0, 5535.0, 5507.0, 5637.0, 5496.0, 5509.0, 5500.0, 5266.0, 5479.0, 5269.0, 5329.0, 5445.0, 5541.0, 5710.0, 5636.0, 5563.0, 5622.0, 5549.0, 5574.0, 5439.0, 5295.0, 5621.0, 5351.0, 5530.0, 5554.0, 5360.0, 5601.0, 5643.0, 5692.0, 5543.0, 5645.0, 5649.0, 5679.0, 5584.0, 5540.0, 5260.0, 5640.0, 5533.0, 5460.0, 5395.0, 5413.0, 5448.0, 5389.0, 5454.0, 5631.0, 5443.0, 5588.0, 5398.0, 5698.0, 5330.0, 5646.0, 5474.0, 5467.0, 5352.0, 5458.0, 5520.0, 5377.0, 5625.0, 5473.0, 5616.0, 5623.0, 5556.0, 5583.0, 5277.0, 5288.0, 5340.0, 5553.0, 5546.0, 5278.0, 5603.0, 5346.0, 5382.0, 5290.0, 5560.0, 5431.0, 5575.0, 5667.0, 5483.0, 5402.0, 5521.0, 5548.0, 5604.0, 5250.0, 5362.0, 5611.0, 5610.0, 5537.0, 5367.0<br>(number of hits: 21 ) |
| 15 | 5530 | 9 | 1 | 333 | 1 | 5308.0, 5415.0, 5654.0, 5608.0, 5386.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5356.0, 5255.0, 5662.0, 5694.0, 5290.0, 5529.0, 5289.0, 5513.0, 5432.0, 5661.0, 5618.0, 5403.0, 5499.0, 5600.0, 5265.0, 5483.0, 5596.0, 5459.0, 5272.0, 5526.0, 5436.0, 5396.0, 5433.0, 5378.0, 5602.0, 5367.0, 5462.0, 5684.0, 5435.0, 5621.0, 5357.0, 5552.0, 5309.0, 5717.0, 5674.0, 5405.0, 5284.0, 5419.0, 5669.0, 5696.0, 5553.0, 5505.0, 5539.0, 5671.0, 5293.0, 5456.0, 5637.0, 5392.0, 5256.0, 5533.0, 5690.0, 5445.0, 5506.0, 5385.0, 5342.0, 5548.0, 5612.0, 5304.0, 5587.0, 5515.0, 5464.0, 5544.0, 5715.0, 5331.0, 5543.0, 5672.0, 5673.0, 5306.0, 5343.0, 5721.0, 5624.0, 5629.0, 5536.0, 5399.0, 5471.0, 5666.0, 5319.0, 5346.0, 5675.0, 5454.0, 5558.0, 5287.0, 5482.0, 5447.0, 5595.0, 5503.0, 5658.0, 5712.0, 5286.0, 5619.0, 5373.0, 5625.0, 5434.0, 5722.0, 5620.0<br>(number of hits: 17)                                         |
| 16 | 5530 | 9 | 1 | 333 | 1 | 5449.0, 5423.0, 5321.0, 5552.0, 5664.0, 5638.0, 5334.0, 5563.0, 5600.0, 5482.0, 5283.0, 5656.0, 5285.0, 5596.0, 5461.0, 5553.0, 5587.0, 5284.0, 5603.0, 5602.0, 5363.0, 5450.0, 5291.0, 5702.0, 5300.0, 5719.0, 5359.0, 5708.0, 5477.0, 5649.0, 5660.0, 5529.0, 5428.0, 5452.0, 5459.0, 5626.0, 5611.0, 5427.0, 5551.0, 5710.0, 5413.0, 5464.0, 5441.0, 5473.0, 5555.0, 5425.0, 5393.0, 5522.0, 5401.0, 5306.0, 5436.0, 5419.0, 5467.0, 5557.0, 5513.0, 5256.0, 5432.0, 5707.0, 5457.0, 5570.0, 5383.0, 5681.0, 5678.0, 5460.0, 5663.0, 5294.0, 5493.0, 5701.0, 5605.0, 5397.0, 5486.0, 5348.0, 5655.0, 5440.0, 5673.0, 5292.0, 5584.0, 5510.0, 5298.0, 5278.0, 5559.0, 5456.0, 5345.0, 5617.0, 5336.0, 5706.0, 5519.0, 5414.0, 5303.0, 5661.0, 5712.0, 5715.0, 5458.0, 5387.0, 5266.0, 5504.0, 5582.0, 5317.0, 5711.0, 5447.0<br>(number of hits: 14) |
| 17 | 5530 | 9 | 1 | 333 | 1 | 5682.0, 5360.0, 5647.0, 5330.0, 5474.0, 5560.0, 5477.0, 5609.0, 5480.0, 5287.0, 5582.0, 5339.0, 5352.0, 5373.0, 5533.0, 5625.0, 5662.0, 5544.0, 5375.0, 5392.0, 5314.0, 5283.0, 5338.0, 5413.0, 5556.0, 5404.0, 5724.0, 5630.0, 5604.0, 5254.0, 5427.0, 5580.0, 5489.0, 5305.0, 5326.0, 5306.0, 5456.0, 5286.0, 5627.0, 5636.0, 5638.0, 5366.0, 5603.0, 5433.0, 5610.0, 5316.0, 5655.0, 5676.0, 5512.0, 5658.0, 5635.0, 5551.0, 5446.0, 5253.0, 5573.0, 5645.0, 5279.0, 5376.0, 5384.0, 5385.0, 5574.0, 5600.0, 5463.0, 5382.0, 5470.0, 5466.0, 5538.0, 5593.0, 5328.0, 5522.0, 5510.0, 5437.0, 5333.0, 5345.0, 5685.0, 5419.0, 5577.0, 5393.0, 5539.0, 5657.0, 5484.0, 5302.0, 5379.0, 5546.0, 5540.0, 5569.0, 5453.0, 5552.0, 5400.0, 5443.0, 5276.0, 5575.0, 5252.0, 5321.0, 5656.0,                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|------|---|---|-----|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5388.0, 5468.0, 5718.0, 5311.0, 5262.0<br>(number of hits: 13 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 18 | 5530 | 9 | 1 | 333 | 1 | 5522.0, 5284.0, 5479.0, 5430.0, 5716.0,<br>5432.0, 5679.0, 5564.0, 5656.0, 5705.0,<br>5534.0, 5713.0, 5505.0, 5627.0, 5286.0,<br>5370.0, 5607.0, 5457.0, 5380.0, 5690.0,<br>5585.0, 5515.0, 5341.0, 5598.0, 5486.0,<br>5531.0, 5720.0, 5312.0, 5532.0, 5393.0,<br>5322.0, 5477.0, 5273.0, 5279.0, 5447.0,<br>5570.0, 5571.0, 5667.0, 5388.0, 5595.0,<br>5462.0, 5654.0, 5283.0, 5302.0, 5401.0,<br>5267.0, 5296.0, 5567.0, 5310.0, 5305.0,<br>5250.0, 5586.0, 5643.0, 5521.0, 5441.0,<br>5367.0, 5470.0, 5309.0, 5546.0, 5274.0,<br>5287.0, 5442.0, 5525.0, 5611.0, 5316.0,<br>5550.0, 5434.0, 5684.0, 5326.0, 5510.0,<br>5596.0, 5603.0, 5349.0, 5626.0, 5616.0,<br>5574.0, 5280.0, 5289.0, 5511.0, 5702.0,<br>5449.0, 5257.0, 5645.0, 5621.0, 5541.0,<br>5481.0, 5294.0, 5526.0, 5400.0, 5332.0,<br>5704.0, 5533.0, 5425.0, 5703.0, 5254.0,<br>5721.0, 5353.0, 5639.0, 5673.0, 5536.0<br>(number of hits: 18 ) |
| 19 | 5530 | 9 | 1 | 333 | 1 | 5646.0, 5293.0, 5588.0, 5713.0, 5415.0,<br>5629.0, 5666.0, 5632.0, 5254.0, 5549.0,<br>5490.0, 5622.0, 5478.0, 5449.0, 5448.0,<br>5561.0, 5619.0, 5446.0, 5365.0, 5270.0,<br>5512.0, 5570.0, 5268.0, 5511.0, 5288.0,<br>5483.0, 5529.0, 5350.0, 5306.0, 5467.0,<br>5351.0, 5627.0, 5721.0, 5276.0, 5671.0,<br>5631.0, 5550.0, 5336.0, 5682.0, 5477.0,<br>5709.0, 5567.0, 5267.0, 5439.0, 5533.0,<br>5498.0, 5702.0, 5453.0, 5569.0, 5661.0,<br>5705.0, 5301.0, 5537.0, 5489.0, 5431.0,<br>5501.0, 5387.0, 5594.0, 5421.0, 5323.0,<br>5591.0, 5476.0, 5681.0, 5539.0, 5469.0,<br>5394.0, 5436.0, 5311.0, 5644.0, 5606.0,<br>5445.0, 5296.0, 5289.0, 5578.0, 5382.0,<br>5667.0, 5542.0, 5428.0, 5516.0, 5534.0,<br>5371.0, 5545.0, 5706.0, 5339.0, 5405.0,<br>5593.0, 5358.0, 5596.0, 5314.0, 5683.0,<br>5500.0, 5259.0, 5426.0, 5514.0, 5400.0,<br>5685.0, 5701.0, 5716.0, 5541.0, 5386.0<br>(number of hits: 19 ) |
| 20 | 5530 | 9 | 1 | 333 | 1 | 5589.0, 5269.0, 5541.0, 5566.0, 5460.0,<br>5703.0, 5430.0, 5283.0, 5722.0, 5445.0,<br>5544.0, 5442.0, 5619.0, 5683.0, 5309.0,<br>5721.0, 5680.0, 5520.0, 5361.0, 5582.0,<br>5670.0, 5590.0, 5419.0, 5511.0, 5268.0,<br>5614.0, 5454.0, 5401.0, 5312.0, 5527.0,<br>5393.0, 5618.0, 5637.0, 5526.0, 5628.0,<br>5350.0, 5633.0, 5646.0, 5515.0, 5304.0,<br>5320.0, 5381.0, 5289.0, 5470.0, 5279.0,<br>5409.0, 5567.0, 5473.0, 5521.0, 5717.0,<br>5555.0, 5379.0, 5282.0, 5684.0, 5447.0,<br>5422.0, 5290.0, 5585.0, 5261.0, 5551.0,<br>5365.0, 5301.0, 5714.0, 5385.0, 5623.0,<br>5371.0, 5493.0, 5339.0, 5502.0, 5542.0,<br>5308.0, 5671.0, 5449.0, 5575.0, 5627.0,<br>5557.0, 5405.0, 5468.0, 5477.0, 5418.0,                                                                                                                                                                                                     |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5508.0, 5550.0, 5506.0, 5505.0, 5474.0, 5274.0, 5265.0, 5617.0, 5658.0, 5691.0, 5467.0, 5423.0, 5319.0, 5644.0, 5435.0, 5343.0, 5666.0, 5639.0, 5513.0, 5510.0<br>(number of hits: 22 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 21 | 5530 | 9 | 1 | 333 | 1 | 5553.0, 5371.0, 5677.0, 5461.0, 5418.0, 5634.0, 5667.0, 5285.0, 5716.0, 5723.0, 5545.0, 5423.0, 5622.0, 5512.0, 5435.0, 5261.0, 5604.0, 5572.0, 5303.0, 5331.0, 5721.0, 5623.0, 5329.0, 5557.0, 5627.0, 5321.0, 5642.0, 5253.0, 5555.0, 5446.0, 5491.0, 5661.0, 5521.0, 5637.0, 5351.0, 5715.0, 5280.0, 5413.0, 5360.0, 5682.0, 5538.0, 5492.0, 5453.0, 5666.0, 5342.0, 5676.0, 5349.0, 5497.0, 5611.0, 5252.0, 5305.0, 5257.0, 5445.0, 5598.0, 5509.0, 5504.0, 5263.0, 5483.0, 5607.0, 5382.0, 5618.0, 5304.0, 5410.0, 5608.0, 5625.0, 5584.0, 5365.0, 5345.0, 5569.0, 5379.0, 5444.0, 5436.0, 5476.0, 5539.0, 5395.0, 5671.0, 5355.0, 5633.0, 5267.0, 5561.0, 5352.0, 5681.0, 5290.0, 5508.0, 5348.0, 5315.0, 5392.0, 5260.0, 5610.0, 5270.0, 5513.0, 5485.0, 5464.0, 5587.0, 5601.0, 5559.0, 5496.0, 5386.0, 5641.0, 5487.0<br>(number of hits: 17 ) |
| 22 | 5530 | 9 | 1 | 333 | 1 | 5459.0, 5563.0, 5717.0, 5688.0, 5427.0, 5608.0, 5550.0, 5575.0, 5700.0, 5284.0, 5597.0, 5394.0, 5378.0, 5252.0, 5525.0, 5292.0, 5414.0, 5658.0, 5448.0, 5398.0, 5555.0, 5323.0, 5508.0, 5542.0, 5349.0, 5691.0, 5625.0, 5629.0, 5601.0, 5274.0, 5336.0, 5266.0, 5622.0, 5537.0, 5706.0, 5671.0, 5596.0, 5442.0, 5623.0, 5421.0, 5433.0, 5462.0, 5391.0, 5275.0, 5560.0, 5431.0, 5648.0, 5590.0, 5428.0, 5630.0, 5665.0, 5328.0, 5600.0, 5677.0, 5553.0, 5574.0, 5500.0, 5289.0, 5653.0, 5660.0, 5392.0, 5606.0, 5607.0, 5594.0, 5604.0, 5467.0, 5400.0, 5599.0, 5364.0, 5584.0, 5603.0, 5570.0, 5382.0, 5457.0, 5527.0, 5341.0, 5351.0, 5355.0, 5390.0, 5306.0, 5333.0, 5589.0, 5530.0, 5529.0, 5287.0, 5659.0, 5396.0, 5362.0, 5403.0, 5519.0, 5276.0, 5408.0, 5610.0, 5699.0, 5611.0, 5277.0, 5577.0, 5296.0, 5693.0, 5551.0<br>(number of hits: 15 ) |
| 23 | 5530 | 9 | 1 | 333 | 1 | 5471.0, 5369.0, 5668.0, 5344.0, 5295.0, 5254.0, 5647.0, 5658.0, 5297.0, 5389.0, 5506.0, 5603.0, 5263.0, 5269.0, 5404.0, 5314.0, 5699.0, 5433.0, 5250.0, 5504.0, 5686.0, 5693.0, 5407.0, 5462.0, 5707.0, 5455.0, 5439.0, 5592.0, 5285.0, 5605.0, 5560.0, 5311.0, 5721.0, 5262.0, 5590.0, 5595.0, 5700.0, 5267.0, 5339.0, 5691.0, 5719.0, 5283.0, 5623.0, 5422.0, 5540.0, 5555.0, 5291.0, 5580.0, 5541.0, 5665.0, 5566.0, 5403.0, 5300.0, 5607.0, 5684.0, 5530.0, 5643.0, 5382.0, 5529.0, 5319.0, 5543.0, 5671.0, 5401.0, 5615.0, 5628.0,                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5593.0, 5287.0, 5474.0, 5354.0, 5411.0, 5641.0, 5714.0, 5666.0, 5451.0, 5567.0, 5364.0, 5440.0, 5553.0, 5396.0, 5652.0, 5373.0, 5432.0, 5286.0, 5341.0, 5526.0, 5604.0, 5483.0, 5565.0, 5459.0, 5383.0, 5579.0, 5316.0, 5490.0, 5355.0, 5417.0, 5260.0, 5614.0, 5509.0, 5366.0, 5536.0<br>(number of hits: 16)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 24 | 5530 | 9 | 1 | 333 | 1 | 5600.0, 5274.0, 5379.0, 5536.0, 5293.0, 5438.0, 5270.0, 5534.0, 5508.0, 5509.0, 5639.0, 5525.0, 5608.0, 5312.0, 5641.0, 5285.0, 5267.0, 5667.0, 5452.0, 5412.0, 5611.0, 5435.0, 5287.0, 5680.0, 5445.0, 5352.0, 5342.0, 5683.0, 5341.0, 5292.0, 5530.0, 5663.0, 5263.0, 5678.0, 5471.0, 5500.0, 5613.0, 5340.0, 5359.0, 5594.0, 5717.0, 5524.0, 5538.0, 5276.0, 5281.0, 5621.0, 5666.0, 5701.0, 5322.0, 5470.0, 5473.0, 5389.0, 5262.0, 5355.0, 5295.0, 5447.0, 5664.0, 5319.0, 5349.0, 5542.0, 5632.0, 5491.0, 5272.0, 5656.0, 5374.0, 5251.0, 5616.0, 5439.0, 5694.0, 5527.0, 5523.0, 5598.0, 5403.0, 5623.0, 5676.0, 5261.0, 5474.0, 5572.0, 5377.0, 5277.0, 5719.0, 5421.0, 5375.0, 5595.0, 5564.0, 5453.0, 5367.0, 5515.0, 5521.0, 5253.0, 5640.0, 5547.0, 5569.0, 5511.0, 5385.0, 5451.0, 5437.0, 5310.0, 5602.0, 5360.0<br>(number of hits: 17) |
| 25 | 5530 | 9 | 1 | 333 | 1 | 5554.0, 5443.0, 5652.0, 5252.0, 5708.0, 5600.0, 5695.0, 5699.0, 5556.0, 5294.0, 5374.0, 5389.0, 5283.0, 5407.0, 5361.0, 5530.0, 5662.0, 5591.0, 5275.0, 5393.0, 5324.0, 5465.0, 5654.0, 5444.0, 5645.0, 5685.0, 5279.0, 5260.0, 5300.0, 5630.0, 5621.0, 5711.0, 5596.0, 5593.0, 5486.0, 5712.0, 5386.0, 5615.0, 5289.0, 5400.0, 5565.0, 5341.0, 5493.0, 5541.0, 5502.0, 5668.0, 5555.0, 5391.0, 5590.0, 5287.0, 5487.0, 5264.0, 5339.0, 5573.0, 5404.0, 5568.0, 5562.0, 5474.0, 5397.0, 5455.0, 5624.0, 5343.0, 5609.0, 5709.0, 5267.0, 5669.0, 5429.0, 5456.0, 5723.0, 5665.0, 5507.0, 5536.0, 5519.0, 5269.0, 5650.0, 5512.0, 5335.0, 5715.0, 5402.0, 5350.0, 5613.0, 5276.0, 5698.0, 5258.0, 5701.0, 5606.0, 5522.0, 5525.0, 5436.0, 5520.0, 5516.0, 5655.0, 5666.0, 5316.0, 5553.0, 5329.0, 5381.0, 5614.0, 5570.0, 5327.0<br>(number of hits: 18) |
| 26 | 5530 | 9 | 1 | 333 | 1 | 5296.0, 5703.0, 5343.0, 5554.0, 5441.0, 5528.0, 5253.0, 5449.0, 5651.0, 5286.0, 5291.0, 5573.0, 5668.0, 5575.0, 5708.0, 5612.0, 5543.0, 5537.0, 5271.0, 5434.0, 5288.0, 5468.0, 5420.0, 5606.0, 5685.0, 5551.0, 5687.0, 5540.0, 5602.0, 5488.0, 5671.0, 5455.0, 5581.0, 5437.0, 5409.0, 5481.0, 5422.0, 5426.0, 5585.0, 5650.0, 5659.0, 5427.0, 5680.0, 5451.0, 5469.0, 5297.0, 5460.0, 5533.0, 5558.0, 5473.0,                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5430.0, 5639.0, 5254.0, 5418.0, 5359.0, 5664.0, 5413.0, 5516.0, 5710.0, 5594.0, 5638.0, 5660.0, 5582.0, 5354.0, 5283.0, 5262.0, 5402.0, 5658.0, 5255.0, 5645.0, 5479.0, 5621.0, 5570.0, 5648.0, 5513.0, 5661.0, 5328.0, 5701.0, 5270.0, 5669.0, 5681.0, 5315.0, 5399.0, 5470.0, 5549.0, 5562.0, 5300.0, 5350.0, 5466.0, 5705.0, 5349.0, 5713.0, 5508.0, 5666.0, 5376.0, 5712.0, 5382.0, 5555.0, 5524.0, 5655.0<br>(number of hits: 15 )                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 27 | 5530 | 9 | 1 | 333 | 1 | 5503.0, 5561.0, 5512.0, 5277.0, 5691.0, 5297.0, 5368.0, 5347.0, 5616.0, 5677.0, 5271.0, 5538.0, 5639.0, 5712.0, 5276.0, 5708.0, 5527.0, 5598.0, 5315.0, 5526.0, 5481.0, 5656.0, 5563.0, 5574.0, 5427.0, 5587.0, 5567.0, 5471.0, 5650.0, 5431.0, 5458.0, 5311.0, 5543.0, 5531.0, 5465.0, 5441.0, 5258.0, 5372.0, 5351.0, 5632.0, 5583.0, 5653.0, 5673.0, 5695.0, 5273.0, 5317.0, 5459.0, 5412.0, 5621.0, 5686.0, 5671.0, 5290.0, 5599.0, 5256.0, 5402.0, 5666.0, 5436.0, 5361.0, 5306.0, 5371.0, 5387.0, 5282.0, 5647.0, 5281.0, 5476.0, 5585.0, 5327.0, 5701.0, 5536.0, 5349.0, 5303.0, 5692.0, 5461.0, 5678.0, 5506.0, 5455.0, 5700.0, 5642.0, 5307.0, 5511.0, 5270.0, 5474.0, 5581.0, 5603.0, 5384.0, 5537.0, 5690.0, 5286.0, 5268.0, 5659.0, 5395.0, 5549.0, 5434.0, 5419.0, 5496.0, 5550.0, 5352.0, 5628.0, 5556.0, 5607.0<br>(number of hits: 18 ) |
| 28 | 5530 | 9 | 1 | 333 | 1 | 5388.0, 5310.0, 5287.0, 5380.0, 5664.0, 5366.0, 5555.0, 5544.0, 5297.0, 5356.0, 5331.0, 5448.0, 5674.0, 5281.0, 5705.0, 5261.0, 5429.0, 5496.0, 5680.0, 5291.0, 5399.0, 5548.0, 5392.0, 5515.0, 5691.0, 5583.0, 5606.0, 5305.0, 5629.0, 5311.0, 5374.0, 5572.0, 5441.0, 5718.0, 5278.0, 5722.0, 5337.0, 5582.0, 5546.0, 5663.0, 5343.0, 5411.0, 5618.0, 5268.0, 5451.0, 5340.0, 5332.0, 5391.0, 5598.0, 5446.0, 5523.0, 5561.0, 5455.0, 5273.0, 5330.0, 5426.0, 5398.0, 5584.0, 5615.0, 5371.0, 5508.0, 5333.0, 5557.0, 5364.0, 5533.0, 5626.0, 5264.0, 5542.0, 5303.0, 5402.0, 5589.0, 5509.0, 5372.0, 5347.0, 5387.0, 5257.0, 5644.0, 5276.0, 5468.0, 5608.0, 5282.0, 5512.0, 5547.0, 5616.0, 5651.0, 5263.0, 5549.0, 5290.0, 5327.0, 5482.0, 5636.0, 5308.0, 5357.0, 5381.0, 5378.0, 5513.0, 5669.0, 5560.0, 5708.0, 5612.0<br>(number of hits: 18 ) |
| 29 | 5530 | 9 | 1 | 333 | 1 | 5509.0, 5332.0, 5474.0, 5314.0, 5568.0, 5256.0, 5613.0, 5251.0, 5331.0, 5512.0, 5358.0, 5315.0, 5661.0, 5427.0, 5373.0, 5633.0, 5650.0, 5301.0, 5261.0, 5354.0, 5655.0, 5454.0, 5663.0, 5487.0, 5552.0, 5363.0, 5441.0, 5496.0, 5456.0, 5413.0, 5665.0, 5688.0, 5294.0, 5277.0, 5339.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|------|---|---|-----|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5367.0, 5388.0, 5272.0, 5682.0, 5545.0,<br>5539.0, 5308.0, 5417.0, 5285.0, 5258.0,<br>5360.0, 5543.0, 5338.0, 5642.0, 5289.0,<br>5478.0, 5415.0, 5603.0, 5626.0, 5300.0,<br>5685.0, 5573.0, 5316.0, 5718.0, 5403.0,<br>5268.0, 5365.0, 5279.0, 5602.0, 5667.0,<br>5394.0, 5369.0, 5511.0, 5637.0, 5680.0,<br>5489.0, 5344.0, 5706.0, 5502.0, 5638.0,<br>5359.0, 5260.0, 5574.0, 5401.0, 5597.0,<br>5702.0, 5453.0, 5575.0, 5371.0, 5439.0,<br>5400.0, 5636.0, 5295.0, 5553.0, 5587.0,<br>5612.0, 5253.0, 5337.0, 5534.0, 5525.0,<br>5588.0, 5707.0, 5286.0, 5460.0, 5557.0<br>(number of hits: 13 )                                                                                                                                                                                                                                                                                                              |
| 30 | 5530 | 9 | 1 | 333 | 1 | 5343.0, 5404.0, 5675.0, 5513.0, 5382.0,<br>5647.0, 5336.0, 5260.0, 5516.0, 5335.0,<br>5401.0, 5314.0, 5690.0, 5504.0, 5501.0,<br>5292.0, 5344.0, 5526.0, 5431.0, 5389.0,<br>5636.0, 5676.0, 5604.0, 5693.0, 5547.0,<br>5492.0, 5316.0, 5277.0, 5384.0, 5253.0,<br>5453.0, 5564.0, 5612.0, 5723.0, 5721.0,<br>5267.0, 5520.0, 5339.0, 5458.0, 5411.0,<br>5565.0, 5671.0, 5566.0, 5461.0, 5402.0,<br>5299.0, 5616.0, 5321.0, 5463.0, 5289.0,<br>5407.0, 5561.0, 5656.0, 5711.0, 5633.0,<br>5666.0, 5603.0, 5713.0, 5334.0, 5255.0,<br>5688.0, 5685.0, 5515.0, 5400.0, 5357.0,<br>5646.0, 5409.0, 5275.0, 5337.0, 5486.0,<br>5414.0, 5308.0, 5284.0, 5451.0, 5580.0,<br>5471.0, 5610.0, 5665.0, 5457.0, 5469.0,<br>5350.0, 5552.0, 5669.0, 5270.0, 5444.0,<br>5625.0, 5678.0, 5488.0, 5390.0, 5698.0,<br>5542.0, 5412.0, 5543.0, 5600.0, 5377.0,<br>5484.0, 5274.0, 5318.0, 5300.0, 5258.0<br>(number of hits: 16 ) |

**5570 MHz, 160 MHz Bandwidth**

| <b>Radar Signal Type</b>      | <b>Waveform/Trial Number</b> | <b>Detection (%)</b> | <b>Limit (%)</b> | <b>Pass/Fail</b> |
|-------------------------------|------------------------------|----------------------|------------------|------------------|
| <b>Type 1A/1B</b>             | 30                           | 96.65 %              | 60%              | Pass             |
| <b>Type 2</b>                 | 30                           | 93.3 %               | 60%              | Pass             |
| <b>Type 3</b>                 | 30                           | 76.7 %               | 60%              | Pass             |
| <b>Type 4</b>                 | 30                           | 76.7 %               | 60%              | Pass             |
| <b>Aggregate (Type1 to 4)</b> | 120                          | 85.84 %              | 80%              | Pass             |
| <b>Type 5</b>                 | 30                           | 100 %                | 80%              | Pass             |
| <b>Type 6</b>                 | 30                           | 100 %                | 70%              | Pass             |

Please refer to the following statistical tables:

**5570 MHz, 160 MHz Bandwidth****Table-1A/1B Radar Type 1A/1B Statistical Performance**

| <b>Trial #</b>                                 | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|------------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                              | 5570            | 67                 | 1                       | 798             | 1                              |
| 2                                              | 5570            | 61                 | 1                       | 878             | 1                              |
| 3                                              | 5570            | 74                 | 1                       | 718             | 1                              |
| 4                                              | 5570            | 72                 | 1                       | 738             | 0                              |
| 5                                              | 5570            | 62                 | 1                       | 858             | 1                              |
| 6                                              | 5492.5          | 102                | 1                       | 518             | 1                              |
| 7                                              | 5492.5          | 70                 | 1                       | 758             | 1                              |
| 8                                              | 5492.5          | 95                 | 1                       | 558             | 1                              |
| 9                                              | 5492.5          | 65                 | 1                       | 818             | 1                              |
| 10                                             | 5492.5          | 92                 | 1                       | 578             | 1                              |
| 11                                             | 5647.5          | 86                 | 1                       | 618             | 1                              |
| 12                                             | 5647.5          | 63                 | 1                       | 838             | 1                              |
| 13                                             | 5647.5          | 68                 | 1                       | 778             | 1                              |
| 14                                             | 5647.5          | 81                 | 1                       | 658             | 1                              |
| 15                                             | 5647.5          | 18                 | 1                       | 3066            | 1                              |
| 16                                             | 5570            | 21                 | 1                       | 2598            | 1                              |
| 17                                             | 5570            | 52                 | 1                       | 1024            | 1                              |
| 18                                             | 5570            | 20                 | 1                       | 2708            | 1                              |
| 19                                             | 5570            | 24                 | 1                       | 2255            | 1                              |
| 20                                             | 5570            | 72                 | 1                       | 743             | 1                              |
| 21                                             | 5492.5          | 61                 | 1                       | 875             | 1                              |
| 22                                             | 5492.5          | 24                 | 1                       | 2257            | 1                              |
| 23                                             | 5492.5          | 33                 | 1                       | 1644            | 1                              |
| 24                                             | 5492.5          | 22                 | 1                       | 2447            | 1                              |
| 25                                             | 5492.5          | 32                 | 1                       | 1661            | 1                              |
| 26                                             | 5647.5          | 65                 | 1                       | 815             | 1                              |
| 27                                             | 5647.5          | 20                 | 1                       | 2731            | 1                              |
| 28                                             | 5647.5          | 31                 | 1                       | 1706            | 1                              |
| 29                                             | 5647.5          | 88                 | 1                       | 606             | 1                              |
| 30                                             | 5647.5          | 20                 | 1                       | 2729            | 1                              |
| <b>Detection Percentage: 96.65 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-2 Radar Type 2 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5570            | 27                 | 1.7                     | 161             | 1                              |
| 2                                             | 5570            | 26                 | 3.9                     | 216             | 1                              |
| 3                                             | 5570            | 27                 | 2.2                     | 191             | 1                              |
| 4                                             | 5570            | 24                 | 2.2                     | 203             | 1                              |
| 5                                             | 5570            | 25                 | 2.1                     | 177             | 1                              |
| 6                                             | 5570            | 27                 | 5                       | 163             | 1                              |
| 7                                             | 5570            | 27                 | 1.7                     | 205             | 1                              |
| 8                                             | 5570            | 29                 | 1.6                     | 156             | 1                              |
| 9                                             | 5570            | 27                 | 1.1                     | 200             | 1                              |
| 10                                            | 5570            | 26                 | 4.1                     | 156             | 1                              |
| 11                                            | 5492.5          | 26                 | 1.2                     | 200             | 1                              |
| 12                                            | 5492.5          | 26                 | 2.4                     | 206             | 0                              |
| 13                                            | 5492.5          | 27                 | 4                       | 218             | 1                              |
| 14                                            | 5492.5          | 29                 | 2.6                     | 219             | 1                              |
| 15                                            | 5492.5          | 26                 | 4.3                     | 158             | 1                              |
| 16                                            | 5492.5          | 25                 | 2.6                     | 166             | 1                              |
| 17                                            | 5492.5          | 26                 | 2.3                     | 165             | 1                              |
| 18                                            | 5492.5          | 25                 | 1.2                     | 228             | 0                              |
| 19                                            | 5492.5          | 23                 | 2.7                     | 219             | 1                              |
| 20                                            | 5492.5          | 25                 | 2.1                     | 219             | 1                              |
| 21                                            | 5647.5          | 28                 | 4.6                     | 190             | 1                              |
| 22                                            | 5647.5          | 27                 | 2.3                     | 169             | 1                              |
| 23                                            | 5647.5          | 24                 | 3                       | 195             | 1                              |
| 24                                            | 5647.5          | 28                 | 3.1                     | 227             | 1                              |
| 25                                            | 5647.5          | 28                 | 3.8                     | 223             | 1                              |
| 26                                            | 5647.5          | 23                 | 3.1                     | 166             | 1                              |
| 27                                            | 5647.5          | 24                 | 4.9                     | 155             | 1                              |
| 28                                            | 5647.5          | 26                 | 1.5                     | 208             | 1                              |
| 29                                            | 5647.5          | 23                 | 3.8                     | 151             | 1                              |
| 30                                            | 5647.5          | 25                 | 3.8                     | 223             | 1                              |
| <b>Detection Percentage: 93.3 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-3 Radar Type 3 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5570            | 16                 | 9.2                     | 268             | 1                              |
| 2                                             | 5570            | 18                 | 9.2                     | 301             | 1                              |
| 3                                             | 5570            | 18                 | 8.1                     | 435             | 1                              |
| 4                                             | 5570            | 16                 | 8.1                     | 347             | 1                              |
| 5                                             | 5570            | 18                 | 8.7                     | 447             | 1                              |
| 6                                             | 5570            | 17                 | 8.1                     | 463             | 1                              |
| 7                                             | 5570            | 16                 | 6.3                     | 342             | 1                              |
| 8                                             | 5570            | 17                 | 8                       | 407             | 0                              |
| 9                                             | 5570            | 17                 | 6.2                     | 392             | 0                              |
| 10                                            | 5570            | 17                 | 6.1                     | 272             | 1                              |
| 11                                            | 5492.5          | 17                 | 6.8                     | 396             | 1                              |
| 12                                            | 5492.5          | 18                 | 6.6                     | 243             | 1                              |
| 13                                            | 5492.5          | 18                 | 8.1                     | 358             | 1                              |
| 14                                            | 5492.5          | 18                 | 6.4                     | 236             | 1                              |
| 15                                            | 5492.5          | 16                 | 8.1                     | 292             | 1                              |
| 16                                            | 5492.5          | 16                 | 7.6                     | 491             | 1                              |
| 17                                            | 5492.5          | 17                 | 7.7                     | 415             | 0                              |
| 18                                            | 5492.5          | 17                 | 9.8                     | 243             | 1                              |
| 19                                            | 5492.5          | 18                 | 7.3                     | 248             | 1                              |
| 20                                            | 5492.5          | 16                 | 8.2                     | 466             | 0                              |
| 21                                            | 5647.5          | 16                 | 6.6                     | 304             | 1                              |
| 22                                            | 5647.5          | 16                 | 8.3                     | 398             | 0                              |
| 23                                            | 5647.5          | 18                 | 6.3                     | 335             | 1                              |
| 24                                            | 5647.5          | 16                 | 6                       | 294             | 1                              |
| 25                                            | 5647.5          | 16                 | 7                       | 366             | 0                              |
| 26                                            | 5647.5          | 17                 | 6.2                     | 482             | 1                              |
| 27                                            | 5647.5          | 16                 | 7.1                     | 294             | 0                              |
| 28                                            | 5647.5          | 18                 | 6.9                     | 438             | 1                              |
| 29                                            | 5647.5          | 17                 | 6.3                     | 201             | 1                              |
| 30                                            | 5647.5          | 18                 | 6.2                     | 471             | 1                              |
| <b>Detection Percentage: 76.7 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-4 Radar Type 4 Statistical Performance**

| <b>Trial #</b>                                | <b>Fc (MHz)</b> | <b>Pulse/Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> |
|-----------------------------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------------------|
| 1                                             | 5570            | 13                 | 17.6                    | 425             | 1                              |
| 2                                             | 5570            | 15                 | 17.6                    | 284             | 1                              |
| 3                                             | 5570            | 15                 | 11.1                    | 466             | 0                              |
| 4                                             | 5570            | 16                 | 15.3                    | 442             | 1                              |
| 5                                             | 5570            | 13                 | 19.3                    | 366             | 0                              |
| 6                                             | 5570            | 14                 | 14.7                    | 450             | 1                              |
| 7                                             | 5570            | 14                 | 17.8                    | 322             | 1                              |
| 8                                             | 5570            | 16                 | 14.4                    | 216             | 1                              |
| 9                                             | 5570            | 16                 | 19.6                    | 330             | 1                              |
| 10                                            | 5570            | 12                 | 13.3                    | 271             | 0                              |
| 11                                            | 5492.5          | 14                 | 12.8                    | 354             | 1                              |
| 12                                            | 5492.5          | 13                 | 16.7                    | 227             | 1                              |
| 13                                            | 5492.5          | 12                 | 17                      | 469             | 0                              |
| 14                                            | 5492.5          | 15                 | 19.7                    | 440             | 1                              |
| 15                                            | 5492.5          | 15                 | 11.4                    | 388             | 1                              |
| 16                                            | 5492.5          | 12                 | 14.3                    | 379             | 1                              |
| 17                                            | 5492.5          | 14                 | 16.8                    | 203             | 1                              |
| 18                                            | 5492.5          | 14                 | 14.9                    | 307             | 1                              |
| 19                                            | 5492.5          | 14                 | 11                      | 397             | 1                              |
| 20                                            | 5492.5          | 13                 | 19                      | 491             | 0                              |
| 21                                            | 5647.5          | 12                 | 19.6                    | 258             | 1                              |
| 22                                            | 5647.5          | 13                 | 13.5                    | 319             | 1                              |
| 23                                            | 5647.5          | 13                 | 13.1                    | 428             | 1                              |
| 24                                            | 5647.5          | 16                 | 12.5                    | 449             | 1                              |
| 25                                            | 5647.5          | 14                 | 20                      | 469             | 1                              |
| 26                                            | 5647.5          | 16                 | 19.9                    | 226             | 1                              |
| 27                                            | 5647.5          | 12                 | 14                      | 445             | 1                              |
| 28                                            | 5647.5          | 13                 | 12.1                    | 418             | 1                              |
| 29                                            | 5647.5          | 14                 | 12.3                    | 363             | 0                              |
| 30                                            | 5647.5          | 12                 | 16.7                    | 484             | 0                              |
| <b>Detection Percentage: 76.7 % (&gt;60%)</b> |                 |                    |                         |                 |                                |

**Table-5 Radar Type 5 Statistical Performance**

| <b>Trial #</b>                               | <b>Fc (MHz)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------------------------------------|-----------------|--------------------------------|
| 1                                            | 5570            | 1                              |
| 2                                            | 5570            | 1                              |
| 3                                            | 5570            | 1                              |
| 4                                            | 5570            | 1                              |
| 5                                            | 5570            | 1                              |
| 6                                            | 5570            | 1                              |
| 7                                            | 5570            | 1                              |
| 8                                            | 5570            | 1                              |
| 9                                            | 5570            | 1                              |
| 10                                           | 5570            | 1                              |
| 11                                           | 5495.7          | 1                              |
| 12                                           | 5494.5          | 1                              |
| 13                                           | 5496.9          | 1                              |
| 14                                           | 5499.7          | 1                              |
| 15                                           | 5497.7          | 1                              |
| 16                                           | 5494.9          | 1                              |
| 17                                           | 5495.3          | 1                              |
| 18                                           | 5498.5          | 1                              |
| 19                                           | 5495.3          | 1                              |
| 20                                           | 5495.7          | 1                              |
| 21                                           | 5640.3          | 1                              |
| 22                                           | 5640.3          | 1                              |
| 23                                           | 5645.1          | 1                              |
| 24                                           | 5642.7          | 1                              |
| 25                                           | 5642.7          | 1                              |
| 26                                           | 5641.9          | 1                              |
| 27                                           | 5644.7          | 1                              |
| 28                                           | 5643.5          | 1                              |
| 29                                           | 5639.9          | 1                              |
| 30                                           | 5640.7          | 1                              |
| <b>Detection Percentage: 100 % (&gt;80%)</b> |                 |                                |

## Bin5 Statistics 1

| <b>Trial #</b> | <b>Pulse</b> | <b>Chirp (MHz)</b> | <b>Pulse Width (μS)</b> | <b>Pulse 1-2 spacing (uS)</b> | <b>Pulse 2-3 spacing (uS)</b> | <b>Pulse Start(S)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------|--------------|--------------------|-------------------------|-------------------------------|-------------------------------|-----------------------|--------------------------------|
| 0              | 2            | 5                  | 63.5                    | 1387                          | -                             | 0.141931              | 1                              |
| 1              | 2            | 5                  | 73.6                    | 1445                          | -                             | 1.074898              |                                |
| 2              | 2            | 5                  | 78.5                    | 1111                          | -                             | 1.587662              |                                |
| 3              | 2            | 5                  | 66                      | 1776                          | -                             | 2.088547              |                                |
| 4              | 3            | 5                  | 99.6                    | 1643                          | 1135                          | 3.117066              |                                |
| 5              | 2            | 5                  | 53.9                    | 1335                          | -                             | 3.205687              |                                |
| 6              | 1            | 5                  | 96.4                    | -                             | -                             | 4.304895              |                                |
| 7              | 1            | 5                  | 63.5                    | -                             | -                             | 4.583461              |                                |
| 8              | 2            | 5                  | 85                      | 1412                          | -                             | 5.127967              |                                |
| 9              | 1            | 5                  | 90.9                    | -                             | -                             | 5.688912              |                                |
| 10             | 2            | 5                  | 89.1                    | 1628                          | -                             | 6.783878              |                                |
| 11             | 2            | 5                  | 90.2                    | 1192                          | -                             | 7.470008              |                                |
| 12             | 2            | 5                  | 67.9                    | 1468                          | -                             | 7.838823              |                                |
| 13             | 3            | 5                  | 55.9                    | 1222                          | 1131                          | 8.578434              |                                |
| 14             | 1            | 5                  | 94.9                    | -                             | -                             | 9.459614              |                                |
| 15             | 2            | 5                  | 59.9                    | 1738                          | -                             | 9.711172              |                                |
| 16             | 2            | 5                  | 84.9                    | 1136                          | -                             | 10.562256             |                                |
| 17             | 2            | 5                  | 95.6                    | 1121                          | -                             | 11.218363             |                                |
| 18             | 2            | 5                  | 81.2                    | 1490                          | -                             | 11.994178             |                                |

## 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          | 84.2             | 1094                   | -                      | 0.405158       | 1                       |
| 1       | 1     | 12          | 80.7             | -                      | -                      | 1.206855       |                         |
| 2       | 2     | 12          | 88               | 1121                   | -                      | 1.671131       |                         |
| 3       | 2     | 12          | 99.5             | 1156                   | -                      | 2.510577       |                         |
| 4       | 3     | 12          | 64.3             | 1902                   | 1990                   | 3.096564       |                         |
| 5       | 3     | 12          | 95               | 1110                   | 1202                   | 3.278424       |                         |
| 6       | 2     | 12          | 69.3             | 1723                   | -                      | 4.067589       |                         |
| 7       | 3     | 12          | 90.4             | 1397                   | 1958                   | 4.931697       |                         |
| 8       | 2     | 12          | 55.8             | 1074                   | -                      | 5.081885       |                         |
| 9       | 3     | 12          | 92.9             | 1208                   | 1787                   | 6.29449        |                         |
| 10      | 2     | 12          | 61.5             | 1547                   | -                      | 6.612308       |                         |
| 11      | 1     | 12          | 65.1             | -                      | -                      | 7.545061       |                         |
| 12      | 2     | 12          | 87               | 1625                   | -                      | 7.903929       |                         |
| 13      | 2     | 12          | 54.2             | 1011                   | -                      | 8.350269       |                         |
| 14      | 1     | 12          | 86.7             | -                      | -                      | 9.232609       |                         |
| 15      | 1     | 12          | 80.4             | -                      | -                      | 10.037878      |                         |
| 16      | 2     | 12          | 62.5             | 1195                   | -                      | 10.594097      |                         |
| 17      | 1     | 12          | 51.7             | -                      | -                      | 10.89756       |                         |
| 18      | 3     | 12          | 65.1             | 1839                   | 1953                   | 11.510085      |                         |

## Bin5 Statistics 3

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 14          | 58.6             | -                      | -                      | 0.197112       | 1                       |
| 1       | 3     | 14          | 63.5             | 1343                   | 1013                   | 0.91028        |                         |
| 2       | 1     | 14          | 92.2             | -                      | -                      | 1.638195       |                         |
| 3       | 2     | 14          | 62.9             | 1164                   | -                      | 2.453408       |                         |
| 4       | 2     | 14          | 72.4             | 1739                   | -                      | 3.649222       |                         |
| 5       | 2     | 14          | 90               | 1504                   | -                      | 3.971877       |                         |
| 6       | 2     | 14          | 61.8             | 1963                   | -                      | 4.890422       |                         |
| 7       | 3     | 14          | 63.3             | 1234                   | 1267                   | 5.99282        |                         |
| 8       | 1     | 14          | 57.7             | -                      | -                      | 6.056751       |                         |
| 9       | 3     | 14          | 61.3             | 1115                   | 1374                   | 7.30096        |                         |
| 10      | 3     | 14          | 66.4             | 1737                   | 1330                   | 7.845917       |                         |
| 11      | 2     | 14          | 50               | 1464                   | -                      | 8.971821       |                         |
| 12      | 3     | 14          | 66               | 1871                   | 1190                   | 9.563966       |                         |
| 13      | 3     | 14          | 92.6             | 1980                   | 1145                   | 10.280198      |                         |
| 14      | 2     | 14          | 95.9             | 1068                   | -                      | 10.506644      |                         |
| 15      | 1     | 14          | 82.3             | -                      | -                      | 11.616106      |                         |

## Bin5 Statistics 4

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 8           | 74.3             | 1449                   | -                      | 0.493363       | 1                       |
| 1       | 3     | 8           | 97.3             | 1155                   | 1004                   | 1.698314       |                         |
| 2       | 3     | 8           | 94.3             | 1792                   | 1930                   | 3.237771       |                         |
| 3       | 1     | 8           | 93.8             | -                      | -                      | 3.860954       |                         |
| 4       | 2     | 8           | 98.6             | 1314                   | -                      | 5.465325       |                         |
| 5       | 1     | 8           | 93.7             | -                      | -                      | 6.761727       |                         |
| 6       | 3     | 8           | 79.7             | 1904                   | 1772                   | 7.791373       |                         |
| 7       | 3     | 8           | 70.7             | 1276                   | 1054                   | 9.016805       |                         |
| 8       | 1     | 8           | 93.8             | -                      | -                      | 9.976964       |                         |
| 9       | 3     | 8           | 86.4             | 1414                   | 1691                   | 11.116029      |                         |

## 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     | 13          | 88.7             | 1063                   | 1463                   | 0.472834       | 1                       |
| 1       | 2     | 13          | 57.1             | 1765                   | -                      | 1.505183       |                         |
| 2       | 2     | 13          | 77.2             | 1161                   | -                      | 2.083664       |                         |
| 3       | 3     | 13          | 77.7             | 1752                   | 1264                   | 3.395643       |                         |
| 4       | 1     | 13          | 83.5             | -                      | -                      | 3.656354       |                         |
| 5       | 2     | 13          | 71.1             | 1040                   | -                      | 4.482442       |                         |
| 6       | 3     | 13          | 68.3             | 1935                   | 1601                   | 5.825053       |                         |
| 7       | 3     | 13          | 93.6             | 1896                   | 1596                   | 6.610374       |                         |
| 8       | 1     | 13          | 58.6             | -                      | -                      | 7.227695       |                         |
| 9       | 2     | 13          | 76.2             | 1900                   | -                      | 8.527824       |                         |
| 10      | 3     | 13          | 83.5             | 1240                   | 1371                   | 9.374223       |                         |
| 11      | 2     | 13          | 71.3             | 1931                   | -                      | 10.051212      |                         |
| 12      | 2     | 13          | 66.9             | 1665                   | -                      | 10.390174      |                         |
| 13      | 2     | 13          | 51.9             | 1279                   | -                      | 11.522752      |                         |

## 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     | 12          | 71.2             | 1423                   | 1481                   | 1.194344       | 1                       |
| 1       | 2     | 12          | 58.2             | 1175                   | -                      | 1.374441       |                         |
| 2       | 2     | 12          | 50.7             | 1509                   | -                      | 3.115075       |                         |
| 3       | 3     | 12          | 56.1             | 1759                   | 1401                   | 4.824556       |                         |
| 4       | 3     | 12          | 70.4             | 1466                   | 1329                   | 6.656772       |                         |
| 5       | 2     | 12          | 88.3             | 1059                   | -                      | 7.594174       |                         |
| 6       | 1     | 12          | 90.7             | -                      | -                      | 8.843325       |                         |
| 7       | 1     | 12          | 79.7             | -                      | -                      | 9.757278       |                         |
| 8       | 2     | 12          | 50.8             | 1911                   | -                      | 11.074267      |                         |

## Bin5 Statistics 7

| Trial # | Pulse | Chirp (MHz) | Pulse Width (µS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 10          | 95.8             | -                      | -                      | 0.499976       | 1                       |
| 1       | 3     | 10          | 77.8             | 1589                   | 1022                   | 1.294411       |                         |
| 2       | 2     | 10          | 94.8             | 1101                   | -                      | 1.63967        |                         |
| 3       | 1     | 10          | 54.5             | -                      | -                      | 2.808448       |                         |
| 4       | 1     | 10          | 79.4             | -                      | -                      | 3.134179       |                         |
| 5       | 2     | 10          | 51.9             | 1037                   | -                      | 4.083491       |                         |
| 6       | 2     | 10          | 70.8             | 1140                   | -                      | 4.261241       |                         |
| 7       | 3     | 10          | 99.4             | 1846                   | 1494                   | 4.948116       |                         |
| 8       | 3     | 10          | 54.7             | 1056                   | 1725                   | 6.082509       |                         |
| 9       | 1     | 10          | 61.3             | -                      | -                      | 7.016209       |                         |
| 10      | 3     | 10          | 79.4             | 1864                   | 1788                   | 7.18717        |                         |
| 11      | 2     | 10          | 80.9             | 1568                   | -                      | 7.828767       |                         |
| 12      | 2     | 10          | 72.4             | 1708                   | -                      | 8.632644       |                         |
| 13      | 1     | 10          | 60.9             | -                      | -                      | 9.482268       |                         |
| 14      | 1     | 10          | 83.8             | -                      | -                      | 9.969147       |                         |
| 15      | 2     | 10          | 51.4             | 1325                   | -                      | 10.887975      |                         |
| 16      | 2     | 10          | 93.4             | 1998                   | -                      | 11.505441      |                         |

## 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     | 13          | 63.6             | -                      | -                      | 0.199735       | 1                       |
| 1       | 3     | 13          | 61.7             | 1016                   | 1348                   | 1.14774        |                         |
| 2       | 2     | 13          | 71.8             | 1712                   | -                      | 2.09536        |                         |
| 3       | 2     | 13          | 50.5             | 1910                   | -                      | 2.145421       |                         |
| 4       | 3     | 13          | 54.6             | 1777                   | 1168                   | 3.378222       |                         |
| 5       | 1     | 13          | 57.5             | -                      | -                      | 3.880666       |                         |
| 6       | 2     | 13          | 58.5             | 1846                   | -                      | 4.346516       |                         |
| 7       | 2     | 13          | 56.5             | 1412                   | -                      | 5.337735       |                         |
| 8       | 2     | 13          | 53.2             | 1735                   | -                      | 6.300494       |                         |
| 9       | 1     | 13          | 84.5             | -                      | -                      | 7.018049       |                         |
| 10      | 3     | 13          | 97.3             | 1856                   | 1699                   | 7.392405       |                         |
| 11      | 1     | 13          | 71.2             | -                      | -                      | 8.412993       |                         |
| 12      | 1     | 13          | 76.1             | -                      | -                      | 9.075793       |                         |
| 13      | 2     | 13          | 67.4             | 1528                   | -                      | 9.61475        |                         |
| 14      | 3     | 13          | 74.6             | 1562                   | 1961                   | 10.09551       |                         |
| 15      | 2     | 13          | 62               | 1707                   | -                      | 10.650187      |                         |
| 16      | 1     | 13          | 56.6             | -                      | -                      | 11.875807      |                         |

## 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     | 7           | 62.2             | 1991                   | 1434                   | 0.799989       | 1                       |
| 1       | 1     | 7           | 87.5             | -                      | -                      | 1.255341       |                         |
| 2       | 2     | 7           | 62.8             | 1407                   | -                      | 2.932742       |                         |
| 3       | 1     | 7           | 64.1             | -                      | -                      | 3.362949       |                         |
| 4       | 3     | 7           | 99.5             | 1554                   | 1330                   | 5.377959       |                         |
| 5       | 1     | 7           | 60.4             | -                      | -                      | 6.226734       |                         |
| 6       | 2     | 7           | 60.8             | 1241                   | -                      | 7.005218       |                         |
| 7       | 1     | 7           | 62.1             | -                      | -                      | 7.8091         |                         |
| 8       | 2     | 7           | 66.8             | 1503                   | -                      | 8.862186       |                         |
| 9       | 2     | 7           | 97               | 1034                   | -                      | 10.074593      |                         |
| 10      | 2     | 7           | 62.5             | 1130                   | -                      | 11.930404      |                         |

## 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           | 74               | 1516                   | -                      | 0.039007       | 1                       |
| 1       | 1     | 9           | 65.2             | -                      | -                      | 2.061628       |                         |
| 2       | 1     | 9           | 86.4             | -                      | -                      | 3.305207       |                         |
| 3       | 2     | 9           | 94.9             | 1886                   | -                      | 4.352246       |                         |
| 4       | 3     | 9           | 94.8             | 1080                   | 1210                   | 5.501826       |                         |
| 5       | 2     | 9           | 73.8             | 1741                   | -                      | 6.564743       |                         |
| 6       | 2     | 9           | 54.8             | 1283                   | -                      | 7.425431       |                         |
| 7       | 1     | 9           | 75.2             | -                      | -                      | 9.456511       |                         |
| 8       | 2     | 9           | 97               | 1832                   | -                      | 9.763854       |                         |
| 9       | 3     | 9           | 93.2             | 1593                   | 1590                   | 11.761348      |                         |

## 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     | 8           | 55               | 1948                   | -                      | 0.620159       | 1                       |
| 1       | 1     | 8           | 70.8             | -                      | -                      | 0.873082       |                         |
| 2       | 2     | 8           | 54               | 1470                   | -                      | 1.606277       |                         |
| 3       | 1     | 8           | 61.5             | -                      | -                      | 2.05064        |                         |
| 4       | 2     | 8           | 70.3             | 1663                   | -                      | 2.672074       |                         |
| 5       | 2     | 8           | 63.2             | 1545                   | -                      | 3.368541       |                         |
| 6       | 3     | 8           | 54.6             | 1383                   | 1573                   | 4.52894        |                         |
| 7       | 1     | 8           | 67               | -                      | -                      | 4.962852       |                         |
| 8       | 2     | 8           | 97.8             | 1232                   | -                      | 5.454172       |                         |
| 9       | 3     | 8           | 54.8             | 1745                   | 1958                   | 6.60498        |                         |
| 10      | 3     | 8           | 67.4             | 1537                   | 1998                   | 6.765806       |                         |
| 11      | 1     | 8           | 85.4             | -                      | -                      | 7.836213       |                         |
| 12      | 3     | 8           | 51.2             | 1688                   | 1897                   | 8.461118       |                         |
| 13      | 3     | 8           | 85.1             | 1889                   | 1086                   | 8.674926       |                         |
| 14      | 2     | 8           | 52.7             | 1854                   | -                      | 9.336468       |                         |
| 15      | 2     | 8           | 79.8             | 1764                   | -                      | 10.352306      |                         |
| 16      | 1     | 8           | 75.5             | -                      | -                      | 10.797262      |                         |
| 17      | 2     | 8           | 73.3             | 1009                   | -                      | 11.557493      |                         |

## 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     | 5           | 74               | 1720                   | -                      | 0.360748       | 1                       |
| 1       | 2     | 5           | 83.9             | 1553                   | -                      | 1.077737       |                         |
| 2       | 2     | 5           | 67               | 1701                   | -                      | 1.578716       |                         |
| 3       | 1     | 5           | 91.5             | -                      | -                      | 2.129265       |                         |
| 4       | 2     | 5           | 79.5             | 1584                   | -                      | 2.845526       |                         |
| 5       | 2     | 5           | 85.2             | 1208                   | -                      | 3.28836        |                         |
| 6       | 3     | 5           | 91.1             | 1398                   | 1305                   | 4.397341       |                         |
| 7       | 3     | 5           | 85.3             | 1277                   | 1258                   | 4.792743       |                         |
| 8       | 3     | 5           | 77.9             | 1756                   | 1218                   | 5.082277       |                         |
| 9       | 2     | 5           | 60               | 1596                   | -                      | 6.011547       |                         |
| 10      | 3     | 5           | 60.7             | 1497                   | 1308                   | 6.902501       |                         |
| 11      | 2     | 5           | 64.9             | 1598                   | -                      | 7.066886       |                         |
| 12      | 2     | 5           | 59.9             | 1989                   | -                      | 7.696924       |                         |
| 13      | 3     | 5           | 85.5             | 1704                   | 1936                   | 8.489617       |                         |
| 14      | 3     | 5           | 82.1             | 1376                   | 1431                   | 9.188461       |                         |
| 15      | 2     | 5           | 88.4             | 1905                   | -                      | 9.910495       |                         |
| 16      | 3     | 5           | 70.7             | 1215                   | 1022                   | 10.147768      |                         |
| 17      | 2     | 5           | 63.4             | 1257                   | -                      | 10.773961      |                         |
| 18      | 1     | 5           | 80.4             | -                      | -                      | 11.493485      |                         |

## 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     | 11          | 82.3             | 1378                   | 1142                   | 0.646153       | 1                       |
| 1       | 3     | 11          | 60.1             | 1383                   | 1514                   | 2.474371       |                         |
| 2       | 1     | 11          | 51.7             | -                      | -                      | 3.405844       |                         |
| 3       | 3     | 11          | 67.5             | 1301                   | 1821                   | 5.124675       |                         |
| 4       | 2     | 11          | 51               | 1692                   | -                      | 5.81874        |                         |
| 5       | 3     | 11          | 68.5             | 1844                   | 1601                   | 7.386488       |                         |
| 6       | 2     | 11          | 56.7             | 1229                   | -                      | 8.745903       |                         |
| 7       | 2     | 11          | 89.4             | 1107                   | -                      | 10.629661      |                         |
| 8       | 2     | 11          | 98.2             | 1685                   | -                      | 11.593466      |                         |

## Bin5 Statistics 14

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 18          | 70.3             | 1606                   | -                      | 0.318065       | 1                       |
| 1       | 2     | 18          | 82.1             | 1951                   | -                      | 1.47177        |                         |
| 2       | 1     | 18          | 89.6             | -                      | -                      | 1.935251       |                         |
| 3       | 2     | 18          | 67.4             | 1288                   | -                      | 2.750762       |                         |
| 4       | 2     | 18          | 66.7             | 1628                   | -                      | 3.319916       |                         |
| 5       | 1     | 18          | 72.6             | -                      | -                      | 4.295779       |                         |
| 6       | 1     | 18          | 78.1             | -                      | -                      | 5.549519       |                         |
| 7       | 3     | 18          | 61               | 1679                   | 1571                   | 5.845136       |                         |
| 8       | 1     | 18          | 56.9             | -                      | -                      | 6.502313       |                         |
| 9       | 3     | 18          | 70.4             | 1416                   | 1914                   | 7.583775       |                         |
| 10      | 2     | 18          | 79.1             | 1436                   | -                      | 8.526609       |                         |
| 11      | 2     | 18          | 84.6             | 1919                   | -                      | 9.304176       |                         |
| 12      | 3     | 18          | 69.9             | 1552                   | 1383                   | 10.173511      |                         |
| 13      | 2     | 18          | 74.6             | 1384                   | -                      | 10.776675      |                         |
| 14      | 3     | 18          | 72.8             | 1230                   | 1867                   | 11.219869      |                         |

## 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     | 13          | 61.8             | 1148                   | -                      | 0.756299       | 1                       |
| 1       | 3     | 13          | 77.8             | 1713                   | 1389                   | 0.805336       |                         |
| 2       | 2     | 13          | 77.9             | 1707                   | -                      | 1.823802       |                         |
| 3       | 2     | 13          | 89.5             | 1329                   | -                      | 2.621597       |                         |
| 4       | 2     | 13          | 97.4             | 1816                   | -                      | 3.643232       |                         |
| 5       | 2     | 13          | 54.7             | 1753                   | -                      | 4.371615       |                         |
| 6       | 1     | 13          | 84.7             | -                      | -                      | 5.295978       |                         |
| 7       | 2     | 13          | 64.1             | 1463                   | -                      | 6.177647       |                         |
| 8       | 2     | 13          | 72.1             | 1672                   | -                      | 7.035318       |                         |
| 9       | 3     | 13          | 50.4             | 1311                   | 1742                   | 7.967911       |                         |
| 10      | 2     | 13          | 98.5             | 1500                   | -                      | 8.319421       |                         |
| 11      | 3     | 13          | 62.4             | 1790                   | 1374                   | 9.14326        |                         |
| 12      | 3     | 13          | 78.8             | 1708                   | 1750                   | 10.234343      |                         |
| 13      | 3     | 13          | 81.7             | 1084                   | 1591                   | 11.097615      |                         |
| 14      | 1     | 13          | 86.4             | -                      | -                      | 11.807248      |                         |

## 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     | 6           | 81.8             | -                      | -                      | 0.169172       | 1                       |
| 1       | 2     | 6           | 59.3             | 1513                   | -                      | 1.017492       |                         |
| 2       | 3     | 6           | 82.2             | 1313                   | 1170                   | 2.245614       |                         |
| 3       | 2     | 6           | 72.2             | 1371                   | -                      | 3.633808       |                         |
| 4       | 2     | 6           | 50.3             | 1222                   | -                      | 4.54074        |                         |
| 5       | 2     | 6           | 50.1             | 1354                   | -                      | 5.848691       |                         |
| 6       | 2     | 6           | 59.9             | 1187                   | -                      | 6.559394       |                         |
| 7       | 1     | 6           | 84.9             | -                      | -                      | 7.079764       |                         |
| 8       | 3     | 6           | 57.9             | 1671                   | 1038                   | 8.012732       |                         |
| 9       | 1     | 6           | 88.4             | -                      | -                      | 9.905051       |                         |
| 10      | 3     | 6           | 89.2             | 1291                   | 1560                   | 10.198222      |                         |
| 11      | 2     | 6           | 80.6             | 1496                   | -                      | 11.46698       |                         |

## 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     | 7           | 60.4             | 1278                   | -                      | 0.820599       | 1                       |
| 1       | 3     | 7           | 99.1             | 1752                   | 1012                   | 1.674532       |                         |
| 2       | 2     | 7           | 58.6             | 1523                   | -                      | 3.180743       |                         |
| 3       | 2     | 7           | 69.1             | 1629                   | -                      | 4.395627       |                         |
| 4       | 1     | 7           | 90.3             | -                      | -                      | 5.401634       |                         |
| 5       | 2     | 7           | 84.1             | 1856                   | -                      | 7.779612       |                         |
| 6       | 1     | 7           | 64.1             | -                      | -                      | 8.398365       |                         |
| 7       | 3     | 7           | 75.2             | 1794                   | 1565                   | 9.337269       |                         |
| 8       | 2     | 7           | 56.6             | 1541                   | -                      | 11.202539      |                         |

## 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          | 71.7             | 1000                   | -                      | 0.369217       | 1                       |
| 1       | 2     | 15          | 64.4             | 1832                   | -                      | 1.161275       |                         |
| 2       | 3     | 15          | 98.2             | 1795                   | 1025                   | 2.336679       |                         |
| 3       | 3     | 15          | 57.8             | 1102                   | 1822                   | 2.800919       |                         |
| 4       | 3     | 15          | 72.1             | 1748                   | 1236                   | 3.793198       |                         |
| 5       | 1     | 15          | 97.4             | -                      | -                      | 4.775618       |                         |
| 6       | 1     | 15          | 76.6             | -                      | -                      | 5.986763       |                         |
| 7       | 3     | 15          | 67.8             | 1010                   | 1998                   | 6.510868       |                         |
| 8       | 1     | 15          | 83.2             | -                      | -                      | 7.367791       |                         |
| 9       | 1     | 15          | 70.9             | -                      | -                      | 8.427073       |                         |
| 10      | 2     | 15          | 83.6             | 1821                   | -                      | 8.789967       |                         |
| 11      | 1     | 15          | 89.4             | -                      | -                      | 9.68554        |                         |
| 12      | 1     | 15          | 55.6             | -                      | -                      | 10.927456      |                         |
| 13      | 1     | 15          | 53.4             | -                      | -                      | 11.392259      |                         |

## 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     | 7           | 83.8             | -                      | -                      | 1.355958       | 1                       |
| 1       | 2     | 7           | 92               | 1800                   | -                      | 2.054662       |                         |
| 2       | 1     | 7           | 56.7             | -                      | -                      | 3.901709       |                         |
| 3       | 3     | 7           | 88.4             | 1574                   | 1364                   | 5.624259       |                         |
| 4       | 2     | 7           | 85.2             | 1768                   | -                      | 7.022556       |                         |
| 5       | 2     | 7           | 56               | 1798                   | -                      | 7.890443       |                         |
| 6       | 3     | 7           | 51.5             | 1190                   | 1674                   | 9.202149       |                         |
| 7       | 2     | 7           | 75.8             | 1155                   | -                      | 11.224281      |                         |

## 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     | 8           | 87.5             | -                      | -                      | 1.050719       | 1                       |
| 1       | 3     | 8           | 76.7             | 1218                   | 1361                   | 1.813468       |                         |
| 2       | 1     | 8           | 83.1             | -                      | -                      | 2.660701       |                         |
| 3       | 3     | 8           | 74.9             | 1762                   | 1296                   | 4.081834       |                         |
| 4       | 2     | 8           | 100              | 1663                   | -                      | 4.509851       |                         |
| 5       | 2     | 8           | 98.3             | 1807                   | -                      | 5.659514       |                         |
| 6       | 3     | 8           | 65               | 1200                   | 1219                   | 6.890423       |                         |
| 7       | 1     | 8           | 96.9             | -                      | -                      | 8.009719       |                         |
| 8       | 3     | 8           | 90.3             | 1600                   | 1869                   | 8.996404       |                         |
| 9       | 2     | 8           | 61.7             | 1522                   | -                      | 10.565442      |                         |
| 10      | 1     | 8           | 66.4             | -                      | -                      | 11.984184      |                         |

## Bin5 Statistics 21

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 18          | 60.5             | -                      | -                      | 0.51935        | 1                       |
| 1       | 2     | 18          | 55.6             | 1327                   | -                      | 1.141069       |                         |
| 2       | 2     | 18          | 69.3             | 1079                   | -                      | 1.642216       |                         |
| 3       | 2     | 18          | 64.4             | 1315                   | -                      | 2.591466       |                         |
| 4       | 3     | 18          | 94.1             | 1907                   | 1952                   | 3.00008        |                         |
| 5       | 1     | 18          | 50.1             | -                      | -                      | 3.550683       |                         |
| 6       | 2     | 18          | 69.1             | 1607                   | -                      | 4.416225       |                         |
| 7       | 1     | 18          | 58.6             | -                      | -                      | 5.283878       |                         |
| 8       | 2     | 18          | 55.7             | 1230                   | -                      | 6.156065       |                         |
| 9       | 2     | 18          | 57.4             | 1393                   | -                      | 6.748693       |                         |
| 10      | 3     | 18          | 79.6             | 1008                   | 1164                   | 7.356053       |                         |
| 11      | 3     | 18          | 80.6             | 1165                   | 1596                   | 8.365749       |                         |
| 12      | 2     | 18          | 76.7             | 1002                   | -                      | 8.995336       |                         |
| 13      | 1     | 18          | 92               | -                      | -                      | 9.531627       |                         |
| 14      | 2     | 18          | 64.6             | 1292                   | -                      | 10.152909      |                         |
| 15      | 3     | 18          | 73.1             | 1276                   | 1278                   | 10.744024      |                         |
| 16      | 1     | 18          | 88.7             | -                      | -                      | 11.424883      |                         |

## 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          | 99               | 1498                   | -                      | 0.649844       | 1                       |
| 1       | 2     | 18          | 53.4             | 1236                   | -                      | 1.050801       |                         |
| 2       | 2     | 18          | 84.4             | 1556                   | -                      | 1.82705        |                         |
| 3       | 2     | 18          | 60.6             | 1343                   | -                      | 3.374372       |                         |
| 4       | 3     | 18          | 61.9             | 1439                   | 1276                   | 4.097678       |                         |
| 5       | 1     | 18          | 61.9             | -                      | -                      | 5.04287        |                         |
| 6       | 2     | 18          | 66.9             | 1620                   | -                      | 5.926057       |                         |
| 7       | 2     | 18          | 51               | 1337                   | -                      | 6.804418       |                         |
| 8       | 2     | 18          | 95.7             | 1835                   | -                      | 7.571094       |                         |
| 9       | 2     | 18          | 94               | 1176                   | -                      | 8.130121       |                         |
| 10      | 1     | 18          | 89.8             | -                      | -                      | 8.852818       |                         |
| 11      | 3     | 18          | 50.7             | 1687                   | 1866                   | 10.190277      |                         |
| 12      | 1     | 18          | 84.7             | -                      | -                      | 10.877788      |                         |
| 13      | 1     | 18          | 66.2             | -                      | -                      | 11.869537      |                         |

## 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     | 6           | 61.8             | 1173                   | -                      | 0.493633       | 1                       |
| 1       | 1     | 6           | 76.2             | -                      | -                      | 1.620124       |                         |
| 2       | 1     | 6           | 53.1             | -                      | -                      | 2.282911       |                         |
| 3       | 1     | 6           | 85.6             | -                      | -                      | 3.61399        |                         |
| 4       | 2     | 6           | 70.8             | 1968                   | -                      | 4.525309       |                         |
| 5       | 2     | 6           | 78.6             | 1426                   | -                      | 5.500634       |                         |
| 6       | 1     | 6           | 52.5             | -                      | -                      | 6.651459       |                         |
| 7       | 2     | 6           | 60.4             | 1076                   | -                      | 7.746983       |                         |
| 8       | 3     | 6           | 75               | 1233                   | 1674                   | 8.439332       |                         |
| 9       | 2     | 6           | 60.7             | 1134                   | -                      | 9.154514       |                         |
| 10      | 3     | 6           | 57.2             | 1583                   | 1156                   | 10.06043       |                         |
| 11      | 2     | 6           | 60.7             | 1966                   | -                      | 11.920327      |                         |

## 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     | 12          | 75.4             | 1675                   | -                      | 0.382836       | 1                       |
| 1       | 2     | 12          | 68.9             | 1205                   | -                      | 1.691679       |                         |
| 2       | 1     | 12          | 88.7             | -                      | -                      | 2.277574       |                         |
| 3       | 2     | 12          | 58.6             | 1297                   | -                      | 2.673043       |                         |
| 4       | 2     | 12          | 50.2             | 1837                   | -                      | 3.973915       |                         |
| 5       | 3     | 12          | 59.2             | 1571                   | 1504                   | 5.064612       |                         |
| 6       | 2     | 12          | 56.9             | 1728                   | -                      | 5.972775       |                         |
| 7       | 3     | 12          | 77.7             | 1401                   | 1500                   | 6.405548       |                         |
| 8       | 2     | 12          | 72.2             | 1785                   | -                      | 6.951847       |                         |
| 9       | 2     | 12          | 51.4             | 1618                   | -                      | 7.725875       |                         |
| 10      | 1     | 12          | 97.8             | -                      | -                      | 8.732739       |                         |
| 11      | 2     | 12          | 55               | 1933                   | -                      | 9.450733       |                         |
| 12      | 2     | 12          | 53.8             | 1641                   | -                      | 10.762598      |                         |
| 13      | 2     | 12          | 90.1             | 1020                   | -                      | 11.322454      |                         |

## Bin5 Statistics 25

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 1     | 12          | 91.9             | -                      | -                      | 0.19067        | 1                       |
| 1       | 1     | 12          | 74.3             | -                      | -                      | 1.286171       |                         |
| 2       | 1     | 12          | 92.4             | -                      | -                      | 1.995135       |                         |
| 3       | 2     | 12          | 80.2             | 1390                   | -                      | 2.553063       |                         |
| 4       | 2     | 12          | 98.8             | 1923                   | -                      | 3.541232       |                         |
| 5       | 2     | 12          | 52.6             | 1781                   | -                      | 4.570054       |                         |
| 6       | 1     | 12          | 97.2             | -                      | -                      | 5.424258       |                         |
| 7       | 2     | 12          | 98.7             | 1497                   | -                      | 5.994932       |                         |
| 8       | 3     | 12          | 56               | 1709                   | 1774                   | 7.04193        |                         |
| 9       | 3     | 12          | 68.8             | 1862                   | 1013                   | 7.434954       |                         |
| 10      | 3     | 12          | 67.7             | 1851                   | 1678                   | 8.546559       |                         |
| 11      | 2     | 12          | 94.6             | 1580                   | -                      | 8.906795       |                         |
| 12      | 2     | 12          | 83.9             | 1368                   | -                      | 10.00471       |                         |
| 13      | 1     | 12          | 82.2             | -                      | -                      | 10.664189      |                         |
| 14      | 1     | 12          | 71.2             | -                      | -                      | 11.766494      |                         |

## 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     | 14          | 56.2             | 1776                   | -                      | 0.460109       | 1                       |
| 1       | 2     | 14          | 90.8             | 1219                   | -                      | 1.820468       |                         |
| 2       | 1     | 14          | 51.1             | -                      | -                      | 3.074019       |                         |
| 3       | 2     | 14          | 63               | 1891                   | -                      | 4.614014       |                         |
| 4       | 2     | 14          | 72.1             | 1964                   | -                      | 4.959367       |                         |
| 5       | 1     | 14          | 94               | -                      | -                      | 6.372823       |                         |
| 6       | 1     | 14          | 65.4             | -                      | -                      | 7.955114       |                         |
| 7       | 2     | 14          | 61.4             | 1571                   | -                      | 9.409649       |                         |
| 8       | 1     | 14          | 89.8             | -                      | -                      | 10.728546      |                         |
| 9       | 2     | 14          | 66.8             | 1681                   | -                      | 10.930261      |                         |

## Bin5 Statistics 27

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 3     | 7           | 70.6             | 1766                   | 1099                   | 0.47264        | 1                       |
| 1       | 2     | 7           | 54.1             | 1461                   | -                      | 1.151278       |                         |
| 2       | 2     | 7           | 95.7             | 1376                   | -                      | 1.934267       |                         |
| 3       | 1     | 7           | 88.9             | -                      | -                      | 2.510769       |                         |
| 4       | 3     | 7           | 68.7             | 1873                   | 1230                   | 3.27196        |                         |
| 5       | 3     | 7           | 79.5             | 1931                   | 1172                   | 4.205213       |                         |
| 6       | 3     | 7           | 69.2             | 1433                   | 1288                   | 4.988271       |                         |
| 7       | 3     | 7           | 53.1             | 1842                   | 1902                   | 6.216988       |                         |
| 8       | 2     | 7           | 50.2             | 1841                   | -                      | 6.562376       |                         |
| 9       | 2     | 7           | 96.2             | 1085                   | -                      | 7.919178       |                         |
| 10      | 2     | 7           | 93.6             | 1664                   | -                      | 8.479343       |                         |
| 11      | 2     | 7           | 50.9             | 1666                   | -                      | 9.228103       |                         |
| 12      | 2     | 7           | 78.7             | 1557                   | -                      | 9.857789       |                         |
| 13      | 2     | 7           | 56               | 1439                   | -                      | 10.632156      |                         |
| 14      | 3     | 7           | 74.8             | 1507                   | 1546                   | 11.94912       |                         |

## Bin5 Statistics 28

| Trial # | Pulse | Chirp (MHz) | Pulse Width (μS) | Pulse 1-2 spacing (uS) | Pulse 2-3 spacing (uS) | Pulse Start(S) | Detection (1:yes; 0:no) |
|---------|-------|-------------|------------------|------------------------|------------------------|----------------|-------------------------|
| 0       | 2     | 10          | 83.6             | 1242                   | -                      | 0.083417       | 1                       |
| 1       | 1     | 10          | 69.4             | -                      | -                      | 1.299454       |                         |
| 2       | 2     | 10          | 66.8             | 1019                   | -                      | 1.927929       |                         |
| 3       | 2     | 10          | 68.4             | 1120                   | -                      | 2.777916       |                         |
| 4       | 1     | 10          | 77.2             | -                      | -                      | 3.683449       |                         |
| 5       | 1     | 10          | 79.3             | -                      | -                      | 4.354434       |                         |
| 6       | 2     | 10          | 52.8             | 1113                   | -                      | 5.216431       |                         |
| 7       | 2     | 10          | 72.3             | 1214                   | -                      | 5.501484       |                         |
| 8       | 2     | 10          | 62               | 1688                   | -                      | 6.477352       |                         |
| 9       | 2     | 10          | 55.6             | 1486                   | -                      | 6.897608       |                         |
| 10      | 2     | 10          | 78.1             | 1409                   | -                      | 7.578506       |                         |
| 11      | 2     | 10          | 54.2             | 1893                   | -                      | 8.412469       |                         |
| 12      | 2     | 10          | 57.8             | 1207                   | -                      | 9.582317       |                         |
| 13      | 2     | 10          | 66.6             | 1009                   | -                      | 10.340709      |                         |
| 14      | 2     | 10          | 56.9             | 1124                   | -                      | 10.667396      |                         |
| 15      | 3     | 10          | 81               | 1879                   | 1132                   | 11.471979      |                         |

## 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     | 19          | 56.3             | -                      | -                      | 0.530195       | 1                       |
| 1       | 2     | 19          | 94.5             | 1352                   | -                      | 1.010933       |                         |
| 2       | 1     | 19          | 79.9             | -                      | -                      | 2.145246       |                         |
| 3       | 2     | 19          | 62.2             | 1558                   | -                      | 3.49823        |                         |
| 4       | 2     | 19          | 79.4             | 1976                   | -                      | 3.89262        |                         |
| 5       | 2     | 19          | 61.1             | 1311                   | -                      | 4.679839       |                         |
| 6       | 3     | 19          | 76.9             | 1503                   | 1755                   | 6.300784       |                         |
| 7       | 2     | 19          | 68.8             | 1679                   | -                      | 6.74618        |                         |
| 8       | 3     | 19          | 81.5             | 1631                   | 1955                   | 7.636511       |                         |
| 9       | 2     | 19          | 60.1             | 1676                   | -                      | 8.884425       |                         |
| 10      | 2     | 19          | 69.2             | 1020                   | -                      | 9.974272       |                         |
| 11      | 1     | 19          | 52.1             | -                      | -                      | 10.221916      |                         |
| 12      | 2     | 19          | 89.1             | 1533                   | -                      | 11.138025      |                         |

## Bin5 Statistics 30

| <b>Trial #</b> | <b>Pulse</b> | <b>Chirp (MHz)</b> | <b>Pulse Width (μS)</b> | <b>Pulse 1-2 spacing (uS)</b> | <b>Pulse 2-3 spacing (uS)</b> | <b>Pulse Start(S)</b> | <b>Detection (1:yes; 0:no)</b> |
|----------------|--------------|--------------------|-------------------------|-------------------------------|-------------------------------|-----------------------|--------------------------------|
| 0              | 2            | 17                 | 62.4                    | 1013                          | -                             | 0.691993              | 1                              |
| 1              | 3            | 17                 | 84.5                    | 1769                          | 1548                          | 0.972419              |                                |
| 2              | 3            | 17                 | 92.3                    | 1148                          | 1716                          | 2.389424              |                                |
| 3              | 2            | 17                 | 57.3                    | 1552                          | -                             | 2.961975              |                                |
| 4              | 2            | 17                 | 55.9                    | 1383                          | -                             | 4.45881               |                                |
| 5              | 3            | 17                 | 56                      | 1394                          | 1417                          | 4.967645              |                                |
| 6              | 2            | 17                 | 77.5                    | 1324                          | -                             | 6.324993              |                                |
| 7              | 2            | 17                 | 65.5                    | 1023                          | -                             | 6.623965              |                                |
| 8              | 1            | 17                 | 81.9                    | -                             | -                             | 7.882101              |                                |
| 9              | 3            | 17                 | 58                      | 1410                          | 1614                          | 8.42639               |                                |
| 10             | 1            | 17                 | 89.3                    | -                             | -                             | 9.310165              |                                |
| 11             | 3            | 17                 | 62.7                    | 1264                          | 1326                          | 10.971837             |                                |
| 12             | 3            | 17                 | 83.8                    | 1958                          | 1357                          | 11.182324             |                                |

**Table-6 Radar Type 6 Statistical Performance**

| <b>Trial #</b> | <b>Fc (MHz)</b> | <b>Pulse /Burst</b> | <b>Pulse Width (μS)</b> | <b>PRI (μs)</b> | <b>Detection (1:yes; 0:no)</b> | <b>Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|-----------------|---------------------|-------------------------|-----------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 5570            | 9                   | 1                       | 333             | 1                              | 5386.0, 5470.0, 5707.0, 5309.0, 5433.0, 5348.0, 5430.0, 5419.0, 5432.0, 5451.0, 5479.0, 5544.0, 5330.0, 5526.0, 5562.0, 5495.0, 5630.0, 5695.0, 5402.0, 5627.0, 5517.0, 5251.0, 5336.0, 5283.0, 5686.0, 5426.0, 5434.0, 5321.0, 5656.0, 5381.0, 5282.0, 5512.0, 5322.0, 5653.0, 5540.0, 5353.0, 5299.0, 5605.0, 5289.0, 5343.0, 5490.0, 5337.0, 5619.0, 5552.0, 5537.0, 5474.0, 5592.0, 5621.0, 5585.0, 5611.0, 5468.0, 5258.0, 5396.0, 5694.0, 5610.0, 5541.0, 5578.0, 5447.0, 5383.0, 5485.0, 5604.0, 5424.0, 5445.0, 5465.0, 5639.0, 5635.0, 5623.0, 5676.0, 5405.0, 5678.0, 5539.0, 5362.0, 5679.0, 5722.0, 5313.0, 5344.0, 5661.0, 5583.0, 5568.0, 5528.0, 5346.0, 5464.0, 5558.0, 5652.0, 5380.0, 5359.0, 5590.0, 5580.0, 5671.0, 5412.0, 5401.0, 5514.0, 5505.0, 5685.0, 5364.0, 5640.0, 5672.0, 5506.0, 5325.0, 5271.0<br>(number of hits: 35 ) |
| 2              | 5570            | 9                   | 1                       | 333             | 1                              | 5618.0, 5514.0, 5334.0, 5467.0, 5518.0, 5712.0, 5322.0, 5409.0, 5540.0, 5666.0, 5709.0, 5569.0, 5538.0, 5396.0, 5402.0, 5627.0, 5401.0, 5410.0, 5505.0, 5669.0, 5419.0, 5629.0, 5435.0, 5632.0, 5622.0, 5603.0, 5359.0, 5414.0, 5282.0, 5438.0, 5290.0, 5536.0, 5486.0, 5416.0, 5676.0, 5592.0, 5315.0, 5497.0, 5654.0, 5392.0, 5512.0, 5567.0, 5546.0, 5453.0, 5286.0, 5724.0, 5700.0, 5329.0, 5623.0, 5716.0, 5668.0, 5616.0, 5671.0, 5506.0, 5503.0, 5278.0, 5297.0, 5515.0, 5674.0, 5456.0, 5547.0, 5388.0, 5347.0, 5696.0, 5575.0, 5516.0, 5675.0, 5687.0, 5471.0, 5559.0, 5686.0, 5327.0, 5449.0, 5382.0, 5430.0, 5348.0, 5667.0, 5566.0, 5683.0, 5394.0, 5562.0, 5333.0, 5639.0, 5429.0, 5376.0, 5576.0, 5476.0, 5398.0, 5554.0, 5705.0, 5342.0, 5428.0, 5287.0, 5281.0, 5662.0, 5354.0, 5383.0, 5469.0, 5265.0, 5678.0<br>(number of hits: 32 ) |
| 3              | 5570            | 9                   | 1                       | 333             | 1                              | 5599.0, 5535.0, 5558.0, 5712.0, 5452.0, 5437.0, 5663.0, 5627.0, 5303.0, 5331.0, 5655.0, 5703.0, 5326.0, 5537.0, 5439.0, 5257.0, 5302.0, 5701.0, 5612.0, 5254.0, 5373.0, 5578.0, 5389.0, 5623.0, 5404.0, 5672.0, 5284.0, 5570.0, 5549.0, 5410.0, 5684.0, 5456.0, 5414.0, 5675.0, 5654.0, 5511.0, 5696.0, 5274.0, 5338.0, 5716.0, 5670.0, 5679.0, 5618.0, 5557.0, 5352.0, 5464.0, 5300.0, 5337.0, 5402.0, 5474.0, 5458.0, 5700.0, 5288.0, 5449.0, 5723.0, 5606.0, 5468.0, 5513.0, 5465.0, 5335.0                                                                                                                                                                                                                                                                                                                                                          |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5609.0, 5588.0, 5548.0, 5364.0, 5711.0, 5520.0, 5278.0, 5604.0, 5492.0, 5617.0, 5508.0, 5324.0, 5412.0, 5282.0, 5361.0, 5669.0, 5504.0, 5721.0, 5579.0, 5647.0, 5630.0, 5347.0, 5450.0, 5448.0, 5268.0, 5681.0, 5572.0, 5424.0, 5476.0, 5260.0, 5265.0, 5428.0, 5401.0, 5645.0, 5638.0, 5531.0, 5294.0, 5390.0, 5375.0, 5453.0<br>(number of hits: 31 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4 | 5570 | 9 | 1 | 333 | 1 | 5665.0, 5414.0, 5651.0, 5477.0, 5586.0, 5647.0, 5640.0, 5561.0, 5471.0, 5670.0, 5570.0, 5709.0, 5724.0, 5704.0, 5440.0, 5305.0, 5407.0, 5609.0, 5551.0, 5598.0, 5588.0, 5287.0, 5687.0, 5482.0, 5600.0, 5587.0, 5253.0, 5498.0, 5699.0, 5716.0, 5567.0, 5526.0, 5447.0, 5316.0, 5444.0, 5328.0, 5659.0, 5385.0, 5409.0, 5617.0, 5654.0, 5365.0, 5512.0, 5481.0, 5464.0, 5705.0, 5457.0, 5290.0, 5566.0, 5426.0, 5266.0, 5446.0, 5712.0, 5595.0, 5462.0, 5648.0, 5672.0, 5571.0, 5306.0, 5276.0, 5579.0, 5628.0, 5622.0, 5611.0, 5465.0, 5559.0, 5634.0, 5430.0, 5689.0, 5403.0, 5294.0, 5690.0, 5322.0, 5592.0, 5537.0, 5638.0, 5313.0, 5320.0, 5608.0, 5311.0, 5279.0, 5433.0, 5618.0, 5415.0, 5534.0, 5402.0, 5578.0, 5424.0, 5285.0, 5637.0, 5655.0, 5656.0, 5468.0, 5533.0, 5325.0, 5289.0, 5580.0, 5688.0, 5508.0, 5554.0<br>(number of hits: 37 ) |
| 5 | 5570 | 9 | 1 | 333 | 1 | 5501.0, 5634.0, 5693.0, 5394.0, 5355.0, 5513.0, 5348.0, 5632.0, 5289.0, 5719.0, 5451.0, 5622.0, 5498.0, 5503.0, 5458.0, 5679.0, 5433.0, 5486.0, 5304.0, 5264.0, 5402.0, 5579.0, 5569.0, 5711.0, 5446.0, 5480.0, 5718.0, 5581.0, 5649.0, 5545.0, 5443.0, 5428.0, 5723.0, 5489.0, 5257.0, 5658.0, 5325.0, 5499.0, 5324.0, 5673.0, 5712.0, 5500.0, 5387.0, 5646.0, 5419.0, 5262.0, 5618.0, 5411.0, 5427.0, 5550.0, 5677.0, 5357.0, 5346.0, 5602.0, 5687.0, 5564.0, 5266.0, 5477.0, 5641.0, 5463.0, 5303.0, 5555.0, 5659.0, 5381.0, 5648.0, 5426.0, 5407.0, 5293.0, 5533.0, 5716.0, 5540.0, 5358.0, 5643.0, 5347.0, 5272.0, 5315.0, 5255.0, 5354.0, 5709.0, 5635.0, 5508.0, 5615.0, 5651.0, 5374.0, 5664.0, 5627.0, 5286.0, 5312.0, 5314.0, 5491.0, 5365.0, 5488.0, 5674.0, 5404.0, 5351.0, 5269.0, 5671.0, 5296.0, 5329.0, 5701.0<br>(number of hits: 27 ) |
| 6 | 5570 | 9 | 1 | 333 | 1 | 5338.0, 5258.0, 5476.0, 5722.0, 5616.0, 5579.0, 5367.0, 5681.0, 5330.0, 5368.0, 5696.0, 5272.0, 5467.0, 5654.0, 5518.0, 5453.0, 5656.0, 5649.0, 5461.0, 5666.0, 5375.0, 5383.0, 5668.0, 5377.0, 5404.0, 5388.0, 5354.0, 5575.0, 5509.0, 5393.0, 5618.0, 5574.0, 5512.0, 5700.0, 5286.0, 5397.0, 5268.0, 5676.0, 5466.0, 5348.0, 5667.0, 5582.0, 5478.0, 5311.0, 5690.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|   |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      |   |   |     |   | 5256.0, 5614.0, 5498.0, 5328.0, 5472.0, 5637.0, 5711.0, 5577.0, 5263.0, 5451.0, 5386.0, 5716.0, 5709.0, 5566.0, 5721.0, 5576.0, 5609.0, 5714.0, 5552.0, 5278.0, 5385.0, 5664.0, 5265.0, 5643.0, 5299.0, 5707.0, 5595.0, 5293.0, 5459.0, 5458.0, 5287.0, 5648.0, 5360.0, 5615.0, 5545.0, 5446.0, 5513.0, 5358.0, 5433.0, 5306.0, 5591.0, 5350.0, 5369.0, 5662.0, 5329.0, 5457.0, 5531.0, 5364.0, 5374.0, 5444.0, 5295.0, 5704.0, 5316.0, 5594.0, 5489.0<br>(number of hits: 25 )                                                                                                                                                                                                                                                                                                                                                                         |
| 7 | 5570 | 9 | 1 | 333 | 1 | 5655.0, 5260.0, 5619.0, 5502.0, 5590.0, 5660.0, 5450.0, 5679.0, 5316.0, 5509.0, 5643.0, 5685.0, 5275.0, 5716.0, 5355.0, 5432.0, 5564.0, 5490.0, 5395.0, 5458.0, 5475.0, 5528.0, 5477.0, 5560.0, 5557.0, 5601.0, 5375.0, 5677.0, 5586.0, 5279.0, 5405.0, 5326.0, 5402.0, 5348.0, 5460.0, 5302.0, 5370.0, 5350.0, 5547.0, 5365.0, 5398.0, 5413.0, 5571.0, 5669.0, 5442.0, 5539.0, 5538.0, 5714.0, 5411.0, 5334.0, 5624.0, 5589.0, 5568.0, 5294.0, 5290.0, 5340.0, 5633.0, 5650.0, 5274.0, 5364.0, 5512.0, 5721.0, 5353.0, 5320.0, 5688.0, 5266.0, 5596.0, 5489.0, 5251.0, 5576.0, 5623.0, 5496.0, 5506.0, 5692.0, 5617.0, 5336.0, 5638.0, 5678.0, 5358.0, 5401.0, 5573.0, 5471.0, 5277.0, 5445.0, 5664.0, 5382.0, 5620.0, 5656.0, 5286.0, 5288.0, 5686.0, 5291.0, 5703.0, 5621.0, 5404.0, 5641.0, 5681.0, 5642.0, 5416.0, 5701.0<br>(number of hits: 32 ) |
| 8 | 5570 | 9 | 1 | 333 | 1 | 5253.0, 5397.0, 5559.0, 5478.0, 5629.0, 5509.0, 5569.0, 5671.0, 5508.0, 5404.0, 5457.0, 5360.0, 5312.0, 5563.0, 5538.0, 5295.0, 5380.0, 5364.0, 5303.0, 5695.0, 5519.0, 5437.0, 5620.0, 5344.0, 5677.0, 5384.0, 5258.0, 5641.0, 5319.0, 5665.0, 5534.0, 5723.0, 5464.0, 5512.0, 5645.0, 5369.0, 5705.0, 5456.0, 5724.0, 5405.0, 5394.0, 5532.0, 5571.0, 5678.0, 5497.0, 5546.0, 5520.0, 5446.0, 5458.0, 5378.0, 5347.0, 5525.0, 5504.0, 5431.0, 5565.0, 5445.0, 5601.0, 5468.0, 5336.0, 5379.0, 5615.0, 5589.0, 5717.0, 5372.0, 5625.0, 5548.0, 5523.0, 5709.0, 5365.0, 5673.0, 5511.0, 5425.0, 5552.0, 5261.0, 5584.0, 5510.0, 5367.0, 5561.0, 5329.0, 5554.0, 5325.0, 5387.0, 5349.0, 5426.0, 5381.0, 5526.0, 5482.0, 5713.0, 5684.0, 5342.0, 5628.0, 5557.0, 5283.0, 5521.0, 5395.0, 5654.0, 5506.0, 5720.0, 5640.0, 5277.0<br>(number of hits: 39 ) |
| 9 | 5570 | 9 | 1 | 333 | 1 | 5651.0, 5540.0, 5300.0, 5644.0, 5250.0, 5639.0, 5584.0, 5483.0, 5533.0, 5494.0, 5287.0, 5562.0, 5303.0, 5692.0, 5503.0, 5385.0, 5520.0, 5268.0, 5507.0, 5279.0, 5621.0, 5369.0, 5325.0, 5705.0, 5614.0, 5355.0, 5640.0, 5348.0, 5321.0, 5354.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5440.0, 5537.0, 5328.0, 5378.0, 5419.0, 5603.0, 5605.0, 5475.0, 5293.0, 5456.0, 5391.0, 5470.0, 5266.0, 5671.0, 5511.0, 5437.0, 5650.0, 5529.0, 5449.0, 5636.0, 5446.0, 5501.0, 5539.0, 5417.0, 5401.0, 5721.0, 5353.0, 5723.0, 5382.0, 5397.0, 5611.0, 5320.0, 5610.0, 5646.0, 5575.0, 5265.0, 5601.0, 5516.0, 5288.0, 5309.0, 5695.0, 5405.0, 5377.0, 5637.0, 5622.0, 5717.0, 5541.0, 5653.0, 5688.0, 5373.0, 5473.0, 5313.0, 5572.0, 5344.0, 5488.0, 5365.0, 5712.0, 5474.0, 5664.0, 5477.0, 5403.0, 5588.0, 5318.0, 5459.0, 5570.0, 5350.0, 5472.0, 5630.0, 5421.0, 5333.0<br>(number of hits: 34 )                                                                                                                                                                                                                                                 |
| 10 | 5570 | 9 | 1 | 333 | 1 | 5306.0, 5258.0, 5505.0, 5710.0, 5701.0, 5508.0, 5599.0, 5532.0, 5724.0, 5391.0, 5536.0, 5295.0, 5631.0, 5597.0, 5595.0, 5283.0, 5487.0, 5303.0, 5641.0, 5400.0, 5713.0, 5573.0, 5454.0, 5664.0, 5683.0, 5491.0, 5288.0, 5326.0, 5279.0, 5534.0, 5554.0, 5328.0, 5348.0, 5598.0, 5253.0, 5585.0, 5320.0, 5277.0, 5382.0, 5688.0, 5296.0, 5629.0, 5266.0, 5335.0, 5423.0, 5401.0, 5426.0, 5676.0, 5570.0, 5448.0, 5574.0, 5578.0, 5528.0, 5558.0, 5677.0, 5457.0, 5305.0, 5474.0, 5706.0, 5368.0, 5672.0, 5265.0, 5442.0, 5321.0, 5709.0, 5682.0, 5473.0, 5447.0, 5252.0, 5267.0, 5561.0, 5612.0, 5304.0, 5712.0, 5547.0, 5466.0, 5414.0, 5357.0, 5360.0, 5600.0, 5501.0, 5334.0, 5617.0, 5373.0, 5687.0, 5584.0, 5479.0, 5610.0, 5359.0, 5549.0, 5535.0, 5718.0, 5691.0, 5313.0, 5477.0, 5449.0, 5607.0, 5392.0, 5647.0, 5675.0<br>(number of hits: 32 ) |
| 11 | 5570 | 9 | 1 | 333 | 1 | 5702.0, 5517.0, 5409.0, 5668.0, 5499.0, 5688.0, 5342.0, 5419.0, 5252.0, 5443.0, 5652.0, 5536.0, 5566.0, 5680.0, 5522.0, 5451.0, 5289.0, 5299.0, 5330.0, 5399.0, 5540.0, 5363.0, 5463.0, 5405.0, 5318.0, 5453.0, 5631.0, 5380.0, 5519.0, 5447.0, 5427.0, 5552.0, 5373.0, 5362.0, 5321.0, 5408.0, 5628.0, 5416.0, 5361.0, 5295.0, 5481.0, 5425.0, 5641.0, 5339.0, 5531.0, 5656.0, 5722.0, 5465.0, 5721.0, 5569.0, 5538.0, 5559.0, 5483.0, 5434.0, 5714.0, 5327.0, 5407.0, 5337.0, 5304.0, 5306.0, 5326.0, 5693.0, 5279.0, 5261.0, 5282.0, 5719.0, 5524.0, 5649.0, 5537.0, 5550.0, 5654.0, 5685.0, 5262.0, 5692.0, 5477.0, 5297.0, 5712.0, 5370.0, 5283.0, 5718.0, 5396.0, 5658.0, 5516.0, 5723.0, 5325.0, 5591.0, 5661.0, 5606.0, 5354.0, 5398.0, 5420.0, 5276.0, 5450.0, 5556.0, 5491.0, 5660.0, 5526.0, 5329.0, 5280.0, 5665.0<br>(number of hits: 23 ) |
| 12 | 5570 | 9 | 1 | 333 | 1 | 5290.0, 5617.0, 5640.0, 5565.0, 5268.0, 5396.0, 5495.0, 5323.0, 5285.0, 5365.0, 5613.0, 5604.0, 5253.0, 5333.0, 5335.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5263.0, 5379.0, 5269.0, 5407.0, 5432.0, 5459.0, 5448.0, 5648.0, 5494.0, 5560.0, 5711.0, 5632.0, 5278.0, 5319.0, 5452.0, 5357.0, 5500.0, 5519.0, 5318.0, 5306.0, 5707.0, 5592.0, 5446.0, 5456.0, 5598.0, 5530.0, 5539.0, 5563.0, 5376.0, 5684.0, 5362.0, 5301.0, 5398.0, 5642.0, 5371.0, 5414.0, 5699.0, 5697.0, 5381.0, 5471.0, 5594.0, 5667.0, 5487.0, 5573.0, 5508.0, 5393.0, 5275.0, 5602.0, 5537.0, 5694.0, 5505.0, 5419.0, 5553.0, 5621.0, 5343.0, 5599.0, 5603.0, 5416.0, 5652.0, 5380.0, 5287.0, 5372.0, 5352.0, 5679.0, 5484.0, 5582.0, 5385.0, 5254.0, 5417.0, 5397.0, 5346.0, 5485.0, 5555.0, 5531.0, 5280.0, 5723.0, 5564.0, 5587.0, 5387.0, 5501.0, 5511.0, 5509.0, 5449.0, 5714.0, 5375.0<br>(number of hits: 35 )                                                                                                                         |
| 13 | 5570 | 9 | 1 | 333 | 1 | 5679.0, 5463.0, 5693.0, 5531.0, 5571.0, 5442.0, 5674.0, 5718.0, 5658.0, 5540.0, 5283.0, 5534.0, 5335.0, 5282.0, 5687.0, 5602.0, 5641.0, 5273.0, 5308.0, 5615.0, 5685.0, 5328.0, 5525.0, 5399.0, 5672.0, 5703.0, 5476.0, 5639.0, 5472.0, 5695.0, 5558.0, 5664.0, 5648.0, 5276.0, 5251.0, 5496.0, 5621.0, 5520.0, 5299.0, 5470.0, 5682.0, 5342.0, 5485.0, 5391.0, 5488.0, 5277.0, 5504.0, 5596.0, 5657.0, 5524.0, 5675.0, 5583.0, 5715.0, 5461.0, 5537.0, 5597.0, 5259.0, 5290.0, 5281.0, 5389.0, 5547.0, 5528.0, 5625.0, 5363.0, 5683.0, 5704.0, 5465.0, 5310.0, 5392.0, 5357.0, 5270.0, 5644.0, 5440.0, 5593.0, 5719.0, 5353.0, 5256.0, 5721.0, 5424.0, 5717.0, 5386.0, 5570.0, 5632.0, 5269.0, 5521.0, 5360.0, 5346.0, 5407.0, 5643.0, 5714.0, 5267.0, 5459.0, 5651.0, 5456.0, 5415.0, 5627.0, 5332.0, 5614.0, 5372.0, 5530.0<br>(number of hits: 31 ) |
| 14 | 5570 | 9 | 1 | 333 | 1 | 5311.0, 5534.0, 5682.0, 5283.0, 5584.0, 5344.0, 5394.0, 5573.0, 5320.0, 5308.0, 5558.0, 5384.0, 5576.0, 5398.0, 5707.0, 5341.0, 5701.0, 5561.0, 5338.0, 5256.0, 5284.0, 5647.0, 5268.0, 5586.0, 5510.0, 5327.0, 5306.0, 5631.0, 5661.0, 5438.0, 5361.0, 5602.0, 5356.0, 5683.0, 5535.0, 5428.0, 5405.0, 5267.0, 5577.0, 5504.0, 5363.0, 5628.0, 5612.0, 5713.0, 5653.0, 5623.0, 5357.0, 5528.0, 5468.0, 5564.0, 5413.0, 5294.0, 5649.0, 5495.0, 5465.0, 5604.0, 5642.0, 5652.0, 5656.0, 5401.0, 5665.0, 5672.0, 5483.0, 5388.0, 5685.0, 5482.0, 5347.0, 5423.0, 5330.0, 5254.0, 5722.0, 5448.0, 5676.0, 5532.0, 5620.0, 5568.0, 5720.0, 5379.0, 5385.0, 5374.0, 5625.0, 5278.0, 5675.0, 5277.0, 5592.0, 5716.0, 5546.0, 5302.0, 5333.0, 5695.0, 5630.0, 5391.0, 5404.0, 5416.0, 5621.0, 5265.0, 5559.0, 5343.0, 5687.0, 5476.0<br>(number of hits: 31 ) |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | 5570 | 9 | 1 | 333 | 1 | 5478.0, 5535.0, 5342.0, 5469.0, 5540.0, 5524.0, 5523.0, 5391.0, 5299.0, 5675.0, 5399.0, 5321.0, 5474.0, 5537.0, 5444.0, 5708.0, 5637.0, 5422.0, 5513.0, 5685.0, 5621.0, 5495.0, 5311.0, 5282.0, 5635.0, 5402.0, 5470.0, 5479.0, 5316.0, 5616.0, 5265.0, 5679.0, 5705.0, 5713.0, 5541.0, 5403.0, 5302.0, 5446.0, 5447.0, 5396.0, 5331.0, 5423.0, 5277.0, 5359.0, 5493.0, 5530.0, 5597.0, 5309.0, 5413.0, 5673.0, 5665.0, 5441.0, 5295.0, 5330.0, 5362.0, 5350.0, 5576.0, 5653.0, 5281.0, 5389.0, 5694.0, 5689.0, 5554.0, 5373.0, 5716.0, 5543.0, 5622.0, 5680.0, 5271.0, 5497.0, 5672.0, 5545.0, 5336.0, 5566.0, 5390.0, 5346.0, 5358.0, 5252.0, 5294.0, 5547.0, 5633.0, 5385.0, 5395.0, 5505.0, 5376.0, 5371.0, 5387.0, 5550.0, 5584.0, 5443.0, 5274.0, 5492.0, 5454.0, 5284.0, 5296.0, 5317.0, 5658.0, 5660.0, 5480.0, 5414.0<br>(number of hits: 28 ) |
| 16 | 5570 | 9 | 1 | 333 | 1 | 5495.0, 5301.0, 5261.0, 5506.0, 5680.0, 5406.0, 5661.0, 5362.0, 5415.0, 5278.0, 5395.0, 5573.0, 5553.0, 5545.0, 5536.0, 5657.0, 5617.0, 5461.0, 5262.0, 5704.0, 5724.0, 5416.0, 5348.0, 5594.0, 5371.0, 5398.0, 5718.0, 5375.0, 5310.0, 5670.0, 5525.0, 5299.0, 5433.0, 5602.0, 5443.0, 5408.0, 5412.0, 5567.0, 5540.0, 5715.0, 5501.0, 5285.0, 5588.0, 5321.0, 5595.0, 5700.0, 5328.0, 5610.0, 5479.0, 5414.0, 5458.0, 5651.0, 5673.0, 5672.0, 5275.0, 5308.0, 5396.0, 5288.0, 5438.0, 5589.0, 5642.0, 5497.0, 5460.0, 5531.0, 5490.0, 5309.0, 5417.0, 5462.0, 5641.0, 5291.0, 5429.0, 5662.0, 5600.0, 5517.0, 5267.0, 5365.0, 5380.0, 5560.0, 5624.0, 5486.0, 5307.0, 5599.0, 5319.0, 5287.0, 5649.0, 5714.0, 5281.0, 5606.0, 5272.0, 5360.0, 5455.0, 5709.0, 5716.0, 5449.0, 5266.0, 5373.0, 5425.0, 5551.0, 5325.0, 5660.0<br>(number of hits: 28 ) |
| 17 | 5570 | 9 | 1 | 333 | 1 | 5387.0, 5602.0, 5535.0, 5352.0, 5450.0, 5666.0, 5686.0, 5646.0, 5559.0, 5580.0, 5527.0, 5520.0, 5700.0, 5590.0, 5318.0, 5513.0, 5467.0, 5468.0, 5359.0, 5472.0, 5404.0, 5360.0, 5395.0, 5407.0, 5343.0, 5288.0, 5660.0, 5418.0, 5302.0, 5369.0, 5701.0, 5491.0, 5615.0, 5554.0, 5502.0, 5678.0, 5547.0, 5476.0, 5462.0, 5622.0, 5469.0, 5560.0, 5540.0, 5452.0, 5543.0, 5658.0, 5382.0, 5586.0, 5310.0, 5297.0, 5338.0, 5376.0, 5355.0, 5611.0, 5460.0, 5649.0, 5377.0, 5453.0, 5257.0, 5333.0, 5664.0, 5305.0, 5504.0, 5638.0, 5251.0, 5298.0, 5386.0, 5266.0, 5614.0, 5286.0, 5546.0, 5379.0, 5425.0, 5437.0, 5605.0, 5642.0, 5597.0, 5663.0, 5596.0, 5408.0, 5485.0, 5635.0, 5348.0, 5577.0, 5561.0, 5253.0, 5693.0, 5691.0, 5388.0, 5494.0                                                                                                          |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5252.0, 5631.0, 5489.0, 5271.0, 5326.0, 5708.0, 5517.0, 5717.0, 5650.0, 5313.0<br>(number of hits: 33 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 18 | 5570 | 9 | 1 | 333 | 1 | 5581.0, 5577.0, 5526.0, 5666.0, 5681.0, 5576.0, 5612.0, 5656.0, 5354.0, 5611.0, 5292.0, 5414.0, 5264.0, 5506.0, 5503.0, 5352.0, 5279.0, 5319.0, 5253.0, 5648.0, 5523.0, 5426.0, 5599.0, 5436.0, 5595.0, 5560.0, 5329.0, 5485.0, 5275.0, 5528.0, 5705.0, 5377.0, 5682.0, 5677.0, 5371.0, 5294.0, 5661.0, 5465.0, 5487.0, 5544.0, 5614.0, 5719.0, 5512.0, 5699.0, 5684.0, 5267.0, 5327.0, 5721.0, 5702.0, 5521.0, 5616.0, 5529.0, 5315.0, 5493.0, 5565.0, 5539.0, 5583.0, 5510.0, 5694.0, 5425.0, 5638.0, 5343.0, 5578.0, 5441.0, 5328.0, 5269.0, 5290.0, 5572.0, 5454.0, 5556.0, 5358.0, 5422.0, 5552.0, 5357.0, 5303.0, 5716.0, 5484.0, 5390.0, 5306.0, 5287.0, 5483.0, 5468.0, 5724.0, 5438.0, 5476.0, 5713.0, 5643.0, 5439.0, 5378.0, 5541.0, 5644.0, 5412.0, 5254.0, 5652.0, 5557.0, 5472.0, 5613.0, 5601.0, 5481.0, 5373.0<br>(number of hits: 35 ) |
| 19 | 5570 | 9 | 1 | 333 | 1 | 5406.0, 5279.0, 5635.0, 5479.0, 5363.0, 5328.0, 5283.0, 5620.0, 5440.0, 5380.0, 5449.0, 5417.0, 5542.0, 5643.0, 5572.0, 5414.0, 5538.0, 5401.0, 5691.0, 5290.0, 5301.0, 5689.0, 5548.0, 5284.0, 5351.0, 5564.0, 5563.0, 5518.0, 5514.0, 5506.0, 5668.0, 5460.0, 5416.0, 5562.0, 5296.0, 5603.0, 5360.0, 5641.0, 5349.0, 5717.0, 5392.0, 5403.0, 5693.0, 5720.0, 5667.0, 5422.0, 5670.0, 5638.0, 5433.0, 5311.0, 5266.0, 5367.0, 5492.0, 5458.0, 5377.0, 5504.0, 5268.0, 5437.0, 5396.0, 5294.0, 5270.0, 5566.0, 5276.0, 5426.0, 5291.0, 5475.0, 5509.0, 5391.0, 5531.0, 5495.0, 5687.0, 5559.0, 5494.0, 5547.0, 5419.0, 5611.0, 5407.0, 5358.0, 5370.0, 5316.0, 5647.0, 5626.0, 5399.0, 5674.0, 5707.0, 5688.0, 5339.0, 5649.0, 5309.0, 5633.0, 5421.0, 5640.0, 5669.0, 5690.0, 5529.0, 5589.0, 5308.0, 5537.0, 5381.0, 5277.0<br>(number of hits: 33 ) |
| 20 | 5570 | 9 | 1 | 333 | 1 | 5704.0, 5314.0, 5511.0, 5329.0, 5599.0, 5671.0, 5390.0, 5458.0, 5466.0, 5378.0, 5580.0, 5311.0, 5477.0, 5660.0, 5356.0, 5603.0, 5447.0, 5361.0, 5410.0, 5310.0, 5593.0, 5529.0, 5616.0, 5398.0, 5692.0, 5411.0, 5654.0, 5250.0, 5359.0, 5484.0, 5585.0, 5556.0, 5363.0, 5574.0, 5272.0, 5690.0, 5407.0, 5317.0, 5343.0, 5716.0, 5702.0, 5452.0, 5623.0, 5516.0, 5302.0, 5548.0, 5274.0, 5367.0, 5280.0, 5515.0, 5544.0, 5435.0, 5300.0, 5370.0, 5397.0, 5560.0, 5646.0, 5604.0, 5261.0, 5575.0, 5402.0, 5265.0, 5572.0, 5637.0, 5633.0, 5355.0, 5503.0, 5719.0, 5497.0, 5368.0, 5323.0, 5287.0, 5424.0, 5276.0, 5270.0,                                                                                                                                                                                                                                 |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5293.0, 5439.0, 5491.0, 5566.0, 5551.0, 5550.0, 5710.0, 5605.0, 5532.0, 5362.0, 5351.0, 5613.0, 5263.0, 5598.0, 5288.0, 5720.0, 5358.0, 5479.0, 5536.0, 5352.0, 5301.0, 5621.0, 5718.0, 5691.0, 5347.0<br>(number of hits: 33 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 21 | 5570 | 9 | 1 | 333 | 1 | 5683.0, 5353.0, 5558.0, 5632.0, 5693.0, 5575.0, 5573.0, 5396.0, 5650.0, 5326.0, 5511.0, 5630.0, 5682.0, 5414.0, 5673.0, 5495.0, 5487.0, 5559.0, 5684.0, 5527.0, 5337.0, 5287.0, 5384.0, 5329.0, 5444.0, 5274.0, 5254.0, 5662.0, 5614.0, 5290.0, 5628.0, 5268.0, 5619.0, 5451.0, 5589.0, 5635.0, 5669.0, 5504.0, 5298.0, 5289.0, 5488.0, 5570.0, 5659.0, 5533.0, 5443.0, 5528.0, 5710.0, 5317.0, 5540.0, 5622.0, 5594.0, 5385.0, 5521.0, 5642.0, 5315.0, 5452.0, 5339.0, 5438.0, 5441.0, 5394.0, 5641.0, 5454.0, 5367.0, 5319.0, 5585.0, 5344.0, 5618.0, 5272.0, 5259.0, 5572.0, 5364.0, 5500.0, 5354.0, 5410.0, 5606.0, 5520.0, 5523.0, 5392.0, 5679.0, 5338.0, 5720.0, 5551.0, 5271.0, 5425.0, 5524.0, 5680.0, 5568.0, 5604.0, 5405.0, 5360.0, 5508.0, 5463.0, 5398.0, 5462.0, 5418.0, 5491.0, 5489.0, 5578.0, 5529.0, 5623.0<br>(number of hits: 39 ) |
| 22 | 5570 | 9 | 1 | 333 | 1 | 5403.0, 5422.0, 5717.0, 5667.0, 5501.0, 5367.0, 5338.0, 5383.0, 5268.0, 5659.0, 5648.0, 5636.0, 5463.0, 5430.0, 5336.0, 5460.0, 5280.0, 5406.0, 5531.0, 5316.0, 5564.0, 5332.0, 5370.0, 5581.0, 5306.0, 5627.0, 5603.0, 5606.0, 5552.0, 5633.0, 5453.0, 5535.0, 5508.0, 5720.0, 5333.0, 5529.0, 5258.0, 5498.0, 5322.0, 5295.0, 5376.0, 5381.0, 5505.0, 5647.0, 5443.0, 5408.0, 5563.0, 5566.0, 5723.0, 5697.0, 5470.0, 5516.0, 5537.0, 5285.0, 5413.0, 5528.0, 5618.0, 5674.0, 5261.0, 5409.0, 5549.0, 5622.0, 5254.0, 5542.0, 5279.0, 5716.0, 5276.0, 5689.0, 5482.0, 5349.0, 5478.0, 5323.0, 5402.0, 5649.0, 5639.0, 5266.0, 5296.0, 5366.0, 5657.0, 5282.0, 5378.0, 5507.0, 5297.0, 5558.0, 5355.0, 5357.0, 5712.0, 5283.0, 5391.0, 5310.0, 5637.0, 5320.0, 5401.0, 5256.0, 5375.0, 5417.0, 5385.0, 5593.0, 5293.0, 5484.0<br>(number of hits: 30 ) |
| 23 | 5570 | 9 | 1 | 333 | 1 | 5350.0, 5711.0, 5342.0, 5369.0, 5328.0, 5642.0, 5719.0, 5484.0, 5316.0, 5640.0, 5720.0, 5634.0, 5690.0, 5424.0, 5609.0, 5382.0, 5676.0, 5669.0, 5464.0, 5571.0, 5475.0, 5503.0, 5338.0, 5423.0, 5665.0, 5516.0, 5455.0, 5298.0, 5371.0, 5561.0, 5388.0, 5422.0, 5270.0, 5538.0, 5466.0, 5502.0, 5655.0, 5285.0, 5550.0, 5526.0, 5539.0, 5322.0, 5677.0, 5602.0, 5265.0, 5596.0, 5567.0, 5290.0, 5408.0, 5512.0, 5413.0, 5499.0, 5673.0, 5723.0, 5697.0, 5447.0, 5663.0, 5710.0, 5330.0, 5277.0                                                                                                                                                                                                                                                                                                                                                          |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|------|---|---|-----|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5646.0, 5515.0, 5497.0, 5419.0, 5649.0, 5623.0, 5563.0, 5540.0, 5592.0, 5427.0, 5477.0, 5358.0, 5706.0, 5284.0, 5553.0, 5348.0, 5334.0, 5675.0, 5325.0, 5686.0, 5309.0, 5362.0, 5573.0, 5310.0, 5292.0, 5648.0, 5691.0, 5337.0, 5507.0, 5651.0, 5687.0, 5721.0, 5406.0, 5340.0, 5654.0, 5476.0, 5636.0, 5387.0, 5272.0, 5488.0<br>(number of hits: 29)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 24 | 5570 | 9 | 1 | 333 | 1 | 5457.0, 5378.0, 5480.0, 5711.0, 5371.0, 5295.0, 5272.0, 5663.0, 5584.0, 5499.0, 5266.0, 5297.0, 5402.0, 5525.0, 5490.0, 5381.0, 5307.0, 5701.0, 5255.0, 5554.0, 5638.0, 5374.0, 5354.0, 5541.0, 5710.0, 5367.0, 5344.0, 5403.0, 5303.0, 5516.0, 5404.0, 5257.0, 5466.0, 5447.0, 5323.0, 5350.0, 5678.0, 5352.0, 5435.0, 5476.0, 5262.0, 5668.0, 5481.0, 5338.0, 5598.0, 5408.0, 5518.0, 5605.0, 5609.0, 5571.0, 5336.0, 5617.0, 5687.0, 5692.0, 5314.0, 5532.0, 5454.0, 5680.0, 5526.0, 5722.0, 5273.0, 5489.0, 5693.0, 5359.0, 5360.0, 5650.0, 5384.0, 5590.0, 5657.0, 5522.0, 5456.0, 5485.0, 5339.0, 5569.0, 5259.0, 5472.0, 5313.0, 5618.0, 5315.0, 5643.0, 5529.0, 5270.0, 5278.0, 5347.0, 5370.0, 5349.0, 5479.0, 5572.0, 5577.0, 5622.0, 5685.0, 5536.0, 5331.0, 5704.0, 5690.0, 5608.0, 5433.0, 5703.0, 5570.0, 5699.0<br>(number of hits: 27) |
| 25 | 5570 | 9 | 1 | 333 | 1 | 5719.0, 5445.0, 5400.0, 5426.0, 5402.0, 5568.0, 5686.0, 5628.0, 5411.0, 5312.0, 5446.0, 5675.0, 5409.0, 5618.0, 5285.0, 5372.0, 5670.0, 5571.0, 5302.0, 5359.0, 5613.0, 5472.0, 5704.0, 5520.0, 5296.0, 5665.0, 5529.0, 5310.0, 5276.0, 5251.0, 5547.0, 5355.0, 5376.0, 5300.0, 5540.0, 5666.0, 5669.0, 5544.0, 5561.0, 5269.0, 5417.0, 5373.0, 5313.0, 5668.0, 5557.0, 5438.0, 5480.0, 5295.0, 5309.0, 5687.0, 5559.0, 5434.0, 5713.0, 5664.0, 5324.0, 5663.0, 5503.0, 5621.0, 5267.0, 5584.0, 5655.0, 5703.0, 5268.0, 5639.0, 5369.0, 5288.0, 5605.0, 5614.0, 5468.0, 5579.0, 5504.0, 5482.0, 5659.0, 5586.0, 5507.0, 5545.0, 5676.0, 5615.0, 5322.0, 5281.0, 5617.0, 5367.0, 5485.0, 5418.0, 5460.0, 5252.0, 5476.0, 5641.0, 5510.0, 5403.0, 5573.0, 5706.0, 5354.0, 5581.0, 5454.0, 5606.0, 5674.0, 5548.0, 5408.0, 5601.0<br>(number of hits: 33) |
| 26 | 5570 | 9 | 1 | 333 | 1 | 5510.0, 5400.0, 5576.0, 5461.0, 5310.0, 5447.0, 5276.0, 5462.0, 5636.0, 5263.0, 5616.0, 5439.0, 5536.0, 5617.0, 5612.0, 5288.0, 5399.0, 5502.0, 5353.0, 5651.0, 5284.0, 5362.0, 5639.0, 5713.0, 5526.0, 5298.0, 5277.0, 5605.0, 5367.0, 5708.0, 5364.0, 5519.0, 5448.0, 5394.0, 5690.0, 5531.0, 5306.0, 5388.0, 5274.0, 5351.0, 5590.0, 5658.0, 5652.0, 5303.0, 5523.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|------|---|---|-----|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5433.0, 5464.0, 5371.0, 5265.0, 5587.0, 5488.0, 5283.0, 5478.0, 5331.0, 5638.0, 5548.0, 5546.0, 5599.0, 5428.0, 5295.0, 5381.0, 5278.0, 5382.0, 5692.0, 5471.0, 5620.0, 5468.0, 5365.0, 5621.0, 5688.0, 5631.0, 5556.0, 5454.0, 5595.0, 5449.0, 5662.0, 5573.0, 5615.0, 5709.0, 5509.0, 5649.0, 5384.0, 5643.0, 5676.0, 5720.0, 5640.0, 5693.0, 5602.0, 5666.0, 5633.0, 5390.0, 5465.0, 5398.0, 5459.0, 5318.0, 5269.0, 5508.0, 5540.0, 5715.0, 5606.0<br>(number of hits: 35 )                                                                                                                                                                                                                                                                                                                                                                         |
| 27 | 5570 | 9 | 1 | 333 | 1 | 5556.0, 5488.0, 5703.0, 5719.0, 5524.0, 5395.0, 5518.0, 5515.0, 5368.0, 5537.0, 5497.0, 5670.0, 5507.0, 5640.0, 5639.0, 5644.0, 5707.0, 5305.0, 5369.0, 5280.0, 5613.0, 5463.0, 5506.0, 5634.0, 5503.0, 5411.0, 5462.0, 5357.0, 5546.0, 5327.0, 5511.0, 5454.0, 5479.0, 5421.0, 5672.0, 5487.0, 5375.0, 5596.0, 5412.0, 5545.0, 5442.0, 5510.0, 5373.0, 5697.0, 5310.0, 5579.0, 5514.0, 5260.0, 5689.0, 5622.0, 5693.0, 5268.0, 5696.0, 5663.0, 5386.0, 5625.0, 5555.0, 5339.0, 5428.0, 5342.0, 5464.0, 5578.0, 5666.0, 5482.0, 5509.0, 5252.0, 5502.0, 5614.0, 5523.0, 5616.0, 5348.0, 5704.0, 5418.0, 5585.0, 5366.0, 5612.0, 5508.0, 5629.0, 5264.0, 5657.0, 5681.0, 5461.0, 5492.0, 5285.0, 5437.0, 5627.0, 5527.0, 5611.0, 5549.0, 5584.0, 5469.0, 5441.0, 5626.0, 5302.0, 5541.0, 5698.0, 5377.0, 5521.0, 5483.0, 5304.0<br>(number of hits: 43 ) |
| 28 | 5570 | 9 | 1 | 333 | 1 | 5612.0, 5432.0, 5437.0, 5602.0, 5499.0, 5584.0, 5336.0, 5344.0, 5670.0, 5573.0, 5652.0, 5623.0, 5654.0, 5678.0, 5279.0, 5374.0, 5435.0, 5614.0, 5333.0, 5647.0, 5720.0, 5611.0, 5415.0, 5705.0, 5610.0, 5422.0, 5421.0, 5268.0, 5373.0, 5655.0, 5601.0, 5482.0, 5306.0, 5687.0, 5444.0, 5484.0, 5309.0, 5535.0, 5362.0, 5272.0, 5367.0, 5695.0, 5402.0, 5645.0, 5532.0, 5261.0, 5574.0, 5281.0, 5411.0, 5370.0, 5582.0, 5487.0, 5495.0, 5274.0, 5538.0, 5531.0, 5491.0, 5504.0, 5722.0, 5496.0, 5579.0, 5454.0, 5369.0, 5420.0, 5468.0, 5280.0, 5685.0, 5278.0, 5313.0, 5341.0, 5521.0, 5494.0, 5510.0, 5358.0, 5541.0, 5350.0, 5680.0, 5660.0, 5427.0, 5452.0, 5335.0, 5560.0, 5419.0, 5613.0, 5716.0, 5700.0, 5609.0, 5577.0, 5470.0, 5501.0, 5547.0, 5319.0, 5668.0, 5669.0, 5410.0, 5282.0, 5634.0, 5298.0, 5291.0, 5469.0<br>(number of hits: 33 ) |
| 29 | 5570 | 9 | 1 | 333 | 1 | 5555.0, 5632.0, 5626.0, 5562.0, 5608.0, 5583.0, 5529.0, 5703.0, 5720.0, 5368.0, 5593.0, 5364.0, 5540.0, 5333.0, 5332.0, 5284.0, 5458.0, 5624.0, 5611.0, 5503.0, 5508.0, 5299.0, 5656.0, 5309.0, 5280.0, 5450.0, 5274.0, 5279.0, 5487.0, 5371.0,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |      |   |   |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|------|---|---|-----|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |      |   |   |     |   | 5477.0, 5493.0, 5628.0, 5261.0, 5462.0,<br>5548.0, 5650.0, 5460.0, 5715.0, 5480.0,<br>5587.0, 5258.0, 5644.0, 5441.0, 5420.0,<br>5439.0, 5454.0, 5633.0, 5598.0, 5496.0,<br>5318.0, 5719.0, 5355.0, 5665.0, 5516.0,<br>5286.0, 5345.0, 5254.0, 5623.0, 5629.0,<br>5588.0, 5428.0, 5606.0, 5459.0, 5435.0,<br>5285.0, 5552.0, 5363.0, 5294.0, 5710.0,<br>5433.0, 5556.0, 5649.0, 5479.0, 5415.0,<br>5704.0, 5615.0, 5393.0, 5721.0, 5259.0,<br>5673.0, 5469.0, 5444.0, 5295.0, 5637.0,<br>5463.0, 5502.0, 5256.0, 5621.0, 5581.0,<br>5302.0, 5446.0, 5596.0, 5287.0, 5265.0,<br>5327.0, 5308.0, 5651.0, 5630.0, 5356.0<br>(number of hits: 35 )                                                                                                                                                                                                                                                                   |
| 30 | 5570 | 9 | 1 | 333 | 1 | 5353.0, 5464.0, 5615.0, 5580.0, 5597.0,<br>5448.0, 5480.0, 5388.0, 5678.0, 5478.0,<br>5472.0, 5298.0, 5654.0, 5258.0, 5360.0,<br>5452.0, 5603.0, 5707.0, 5465.0, 5543.0,<br>5429.0, 5345.0, 5312.0, 5507.0, 5449.0,<br>5575.0, 5351.0, 5408.0, 5470.0, 5446.0,<br>5665.0, 5708.0, 5327.0, 5620.0, 5431.0,<br>5300.0, 5262.0, 5365.0, 5396.0, 5354.0,<br>5288.0, 5690.0, 5277.0, 5403.0, 5574.0,<br>5639.0, 5614.0, 5631.0, 5346.0, 5428.0,<br>5558.0, 5410.0, 5459.0, 5273.0, 5439.0,<br>5276.0, 5642.0, 5391.0, 5632.0, 5349.0,<br>5296.0, 5663.0, 5515.0, 5532.0, 5523.0,<br>5540.0, 5385.0, 5538.0, 5468.0, 5390.0,<br>5651.0, 5537.0, 5717.0, 5339.0, 5493.0,<br>5445.0, 5535.0, 5414.0, 5433.0, 5453.0,<br>5719.0, 5350.0, 5542.0, 5553.0, 5592.0,<br>5517.0, 5333.0, 5316.0, 5444.0, 5369.0,<br>5494.0, 5271.0, 5430.0, 5669.0, 5497.0,<br>5524.0, 5418.0, 5617.0, 5269.0, 5610.0<br>(number of hits: 32 ) |

## **10 Annex A– Test Setup Photographs**

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Please refer to the attachment

## **11 Annex B - EUT External Photographs**

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Please refer to the attachment

## **11 Annex C– EUT Internal Photographs**

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Please refer to the attachment

### 13 Annex D (Normative) - A2LA Electrical Testing Certificate



Please follow the web link below for a full ISO 17025 scope

<https://www.a2la.org/scopepdf/3297-02.pdf>

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