



## FCC AND ISCED DFS TEST REPORT

|                                |   |                                                                                                                                                 |
|--------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>               | : | Mercku Inc.                                                                                                                                     |
| <b>Address of Applicant</b>    | : | 3600 Steeles Avenue East, Suite C108B, Markham, Ontario, L3R 9Z7, Canada                                                                        |
| <b>Manufacturer</b>            | : | Mercku Technology (China), Inc.                                                                                                                 |
| <b>Address of Manufacturer</b> | : | Block B1, Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China                                                           |
| <b>Equipment under Test</b>    | : | Mercku M6s Nano Mesh Wi-Fi Router                                                                                                               |
| <b>Model No.</b>               | : | MBAA0                                                                                                                                           |
| <b>FCC ID</b>                  | : | 2APR4-M6SN                                                                                                                                      |
| <b>IC</b>                      | : | 23877-M6SN                                                                                                                                      |
| <b>Test Standard(s)</b>        | : | FCC Rules and Regulations Part 15.407, RSS-247 Issue 2 February 2017, ANSI C63.10:2013, 905462 D02 UNII DFS Compliance Procedures New Rules v02 |
| <b>Report No.</b>              | : | DDT-RE23111605-2E07                                                                                                                             |
| <b>Issue Date</b>              | : | 2024/03/06                                                                                                                                      |
| <b>Issue By</b>                | : | Guangdong Dongdian Testing Service Co., Ltd.                                                                                                    |
| <b>Address of Laboratory</b>   | : | Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808                                             |

# REPORT

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## Test Report Declare

|                                |   |                                                                                      |
|--------------------------------|---|--------------------------------------------------------------------------------------|
| <b>Applicant</b>               | : | Mercku Inc.                                                                          |
| <b>Address of Applicant</b>    | : | 3600 Steeles Avenue East, Suite C108B, Markham, Ontario, L3R 9Z7, Canada             |
| <b>Equipment under Test</b>    | : | Mercku M6s Nano Mesh Wi-Fi Router                                                    |
| <b>Model No.</b>               | : | MBAA0                                                                                |
| <b>Manufacturer</b>            | : | Mercku Technology (China), Inc.                                                      |
| <b>Address of Manufacturer</b> | : | Block B1,Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China |

**Test Standard Used:** FCC Rules and Regulations Part 15.407, RSS-247 Issue 2 February 2017.

**Test procedure used:** ANSI C63.10:2013, 905462 D02 UNII DFS Compliance Procedures New Rules v02

**We Declare:**

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

**After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.**

|                         |                     |                      |                         |
|-------------------------|---------------------|----------------------|-------------------------|
| <b>Report No.:</b>      | DDT-RE23111605-2E07 |                      |                         |
| <b>Date of Receipt:</b> | 2023/11/20          | <b>Date of Test:</b> | 2023/11/20 ~ 2024/03/06 |

**Prepared By:**

*Tiger Mo*

**Tiger Mo/Engineer**

**Approved By:**



**Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

## Revision History

| Rev. | Revisions     | Issue Date | Revised By |
|------|---------------|------------|------------|
| ---  | Initial issue | 2024/03/06 |            |
|      |               |            |            |

## 1. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.

| Description of Test Item       | Description of Test                          | Standard              | Verdict | Remark                            |
|--------------------------------|----------------------------------------------|-----------------------|---------|-----------------------------------|
| Detection Bandwidth            | U-NII Detection Bandwidth                    | KDB 905462<br>7.8.1   | Pass    | 100% of the 99% BW                |
| Performance Requirements Check | Initial Channel Availability Check Time CAC) | KDB 905462<br>7.8.2.1 | Pass    | CAC ≥60 sec                       |
|                                | Radar Burst at the Beginning of the CAC      | KDB 905462<br>7.8.2.2 | Pass    | Detection Threshold: -63 dBm      |
|                                | Radar Burst at the End of the CAC            | KDB 905462<br>7.8.2.3 | Pass    | Detection Threshold: -63 dBm      |
| In-Service Monitoring          | Channel Move Time                            | KDB 905462<br>7.8.3   | Pass    | CMT ≤ 10set                       |
|                                | Channel Closing Transmission Time            | KDB 905462<br>7.8.3   | Pass    | CCTT ≤60 ms starting at CMT 200ms |
|                                | Non-Occupancy Period                         | KDB 905462<br>7.8.3   | Pass    | NOP≥30 Min                        |
| Radar Detection                | Statistical Performance Check                | KDB 905462<br>7.8.4   | Pass    | Table 5- 7<br>(KDB 905462)        |

## 2. General Test Information

### 2.1. Description of EUT

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Name                 | : Mercku M6s Nano Mesh Wi-Fi Router                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Model Number             | : MBAA0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EUT function description | : Please reference user manual of this device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Power supply             | : AC 100~240V, 50-60Hz, 0.55A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Radio Technology         | : IEEE 802.11a/n/ac/ax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operation frequency      | : IEEE 802.11a: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz<br>IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz<br>IEEE 802.11n HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5710MHz, 5755MHz-5795MHz<br>IEEE 802.11ac HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz<br>IEEE 802.11ac HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5710MHz, 5755MHz-5795MHz<br>IEEE 802.11ac HT80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5690MHz, 5775MHz<br>IEEE 802.11ac HT160: 5250MHz, 5570MHz<br>IEEE 802.11ax HE20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz<br>IEEE 802.11ax HE40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5710MHz, 5755MHz-5795MHz<br>IEEE 802.11ax HE80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5690MHz, 5775MHz<br>IEEE 802.11ax HE160: 5250MHz, 5570MHz |
| Modulation               | : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax: OFDMA (1024QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operating mode           | : <input checked="" type="checkbox"/> Master<br><input type="checkbox"/> Client Without Radar Detection<br><input type="checkbox"/> Client with Radar Detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Communication mode       | : <input checked="" type="checkbox"/> Load Based<br><input type="checkbox"/> Frame Based                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TPC function             | : <input checked="" type="checkbox"/> With TPC<br><input type="checkbox"/> Without TPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Power-on cycle           | : 118s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Antenna                  | : Antenna 1: PCB antenna,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|          |                                                                                                                                                                                                               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 5150MHz-5350MHz, Maximum PK gain: 6.43 dBi<br>5470MHz-5725MHz, Maximum PK gain: 6.6 dBi<br>Antenna 2: PCB antenna,<br>5150MHz-5350MHz, Maximum PK gain: 6.43 dBi<br>5470MHz-5725MHz, Maximum PK gain: 6.6 dBi |
| Pathloss | The antenna connector impedance 50 Ohms<br>: and external cable pathloss: 2 dB (According to the manufacturer's claims)                                                                                       |

Note 1: EUT is the abbreviation of equipment under test.

Note 2: “☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

## 2.2. User Access Restrictions

DFS controls (hardware or software) related to radar detection are NOT accessible to the user.

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

## 2.3. Channel Loading/ Data Streaming

Software to ping the client is permitted to simulate data transfer with random ping intervals.

Minimum channel loading of approximately 17

## 2.4. Accessories of EUT

| Description of Accessories | Manufacturer | Model number | Other |
|----------------------------|--------------|--------------|-------|
| N/A                        | N/A          | N/A          | N/A   |

## 2.5. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | EMC Compliance | SN              |
|---------------------|--------------|--------------|----------------|-----------------|
| NoteBook            | Lenovo       | i5-3230M     | N/A            | MM-202201270935 |

## 2.6. Test Condition

|                                         |                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| The Worst Case Mode for following Tests |                                                                                                                    |
| Test Condition                          | <p>Conducted measurement</p> <p>The EUT configured to operated at the highest transmitter output power setting</p> |

## 2.7. DFS Band Carrier Frequencies

| Frequency Band | Bandwidth | Channel No. | Frequency (MHz) |
|----------------|-----------|-------------|-----------------|
| U-NII-2A       | 20 MHz    | 52          | 5260            |
|                |           | 56          | 5280            |
|                |           | 60          | 5300            |
|                |           | 64          | 5320            |
|                | 40 MHz    | 54          | 5270            |
|                |           | 62          | 5310            |
|                | 80 MHz    | 58          | 5290            |
| U-NII-2C       | 160MHz    | 50          | 5250            |
|                | 20 MHz    | 100         | 5500            |
|                |           | 104         | 5520            |
|                |           | 108         | 5540            |
|                |           | 112         | 5560            |
|                |           | 116         | 5580            |
|                |           | 132         | 5660            |
|                |           | 136         | 5680            |
|                |           | 140         | 5700            |
|                |           | 144         | 5720            |
|                | 40 MHz    | 102         | 5510            |
|                |           | 110         | 5550            |
|                |           | 134         | 5670            |
|                |           | 142         | 5710            |
|                | 80 MHz    | 106         | 5530            |
|                |           | 138         | 5690            |
|                | 160MHz    | 114         | 5570            |

## 2.8. Deviations of test standard

No Deviation.

## 2.9. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

|                    |            |
|--------------------|------------|
| Temperature range: | 21-25℃     |
| Humidity range:    | 40-75%     |
| Pressure range:    | 86-106 kPa |

## 2.10. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No.17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China 523808

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com).

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

**2.11. Measurement uncertainty**

| Test Item                                                                                                                                     | Uncertainty                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Bandwidth                                                                                                                                     | 1.1%                                                   |
| Peak Output Power (Conducted) (Spectrum Analyzer)                                                                                             | 0.86 dB ( $10 \text{ MHz} \leq f < 3.6 \text{ GHz}$ ); |
|                                                                                                                                               | 1.38 dB ( $3.6 \text{ GHz} \leq f < 8 \text{ GHz}$ )   |
| Peak Output Power (Conducted) (Power Sensor)                                                                                                  | 0.74 dB                                                |
| Power Spectral Density                                                                                                                        | 0.74 dB ( $10 \text{ MHz} \leq f < 3.6 \text{ GHz}$ ); |
|                                                                                                                                               | 1.38 dB ( $3.6 \text{ GHz} \leq f < 8 \text{ GHz}$ )   |
| Frequencies Stability                                                                                                                         | $6.7 \times 10^{-8}$ (Antenna couple method)           |
|                                                                                                                                               | $5.5 \times 10^{-8}$ (Conducted method)                |
| Conducted Spurious Emissions                                                                                                                  | 0.86 dB ( $10 \text{ MHz} \leq f < 3.6 \text{ GHz}$ ); |
|                                                                                                                                               | 1.40 dB ( $3.6 \text{ GHz} \leq f < 8 \text{ GHz}$ )   |
|                                                                                                                                               | 1.66 dB ( $8 \text{ GHz} \leq f < 22 \text{ GHz}$ )    |
| Uncertainty for Radio Frequency (RBW < 20 kHz)                                                                                                | $3 \times 10^{-8}$                                     |
| Temperature                                                                                                                                   | 0.4 °C                                                 |
| Humidity                                                                                                                                      | 2 %                                                    |
| Uncertainty for Radiation Emission Test<br>(9 kHz – 30 MHz)                                                                                   | 3.44 dB                                                |
| Uncertainty for Radiation Emission Test<br>(30 MHz - 1 GHz)                                                                                   | 4.70 dB (Antenna Polarize: V)                          |
|                                                                                                                                               | 4.84 dB (Antenna Polarize: H)                          |
| Uncertainty for Radiation Emission Test<br>(1 GHz - 40 GHz)                                                                                   | 4.10 dB (1 - 6 GHz)                                    |
|                                                                                                                                               | 4.40 dB (6 GHz - 18 GHz)                               |
|                                                                                                                                               | 3.54 dB (18 GHz - 26 GHz)                              |
|                                                                                                                                               | 4.30 dB (26 GHz - 40 GHz)                              |
| Uncertainty for Power Line Conduction Emission<br>Test                                                                                        | 3.32 dB (150 kHz - 30 MHz)                             |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                                                        |

### 3. Equipment Used During Conductive Test

| Equipment                                                                        | Manufacturer | Model No.   | Serial Number | Due Date   |
|----------------------------------------------------------------------------------|--------------|-------------|---------------|------------|
| <input checked="" type="checkbox"/> RF Connected Test (RF Measurement System 1#) |              |             |               |            |
| SIGNAL ANALYZER                                                                  | R&S          | FSQ26       | 101272        | 2024/04/26 |
| Wideband Radio Communication Tester                                              | R&S          | CMW500      | 120259        | 2024/07/14 |
| MXG Vector Signal Generator                                                      | KEYSIGHT     | N5182B      | MY59100192    | 2024/04/26 |
| MXG Vector Signal Generator                                                      | Agilent      | N5182A      | MY19060405    | 2024/04/26 |
| RF Control Unit                                                                  | Tonsend      | JS0806-2    | 158060010     | 2024/04/26 |
| TEMP&HUMI Programmable Chamber                                                   | ZHIXIANG     | ZXGDJS-150L | ZX170110-A    | 2024/05/14 |
| Test Software                                                                    | Tonscend     | JS1120-3    | Ver.3.2.22    | N/A        |

## 4. General DFS requirements

### 4.1. Applicability of DFS requirements

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

| Requirement                     | Operational Mode                           |                                                         |                                                      |
|---------------------------------|--------------------------------------------|---------------------------------------------------------|------------------------------------------------------|
|                                 | <input checked="" type="checkbox"/> Master | <input type="checkbox"/> Client Without Radar Detection | <input type="checkbox"/> 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                                                                 |                                                         |
|-----------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------|
|                                   | <input checked="" type="checkbox"/> Master Device or Client with Radar Detection | <input type="checkbox"/> 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                                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> Master Device or Client with Radar Detection | <input type="checkbox"/> Client Without Radar Detection |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------|
| U-NII Detection Bandwidth and Statistical Performance Check                                                                                                                                                                                                                                                                           | All BW modes must be tested                                                      | Not required                                            |
| Channel Move Time and Channel Closing Transmission Time                                                                                                                                                                                                                                                                               | Test using widest BW mode available                                              | Test using the widest BW mode available for the link    |
| All other tests                                                                                                                                                                                                                                                                                                                       | Any single BW mode                                                               | Not required                                            |
| Note: Frequencies selected for statistical performance check 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. |                                                                                  |                                                         |

## 4.2. Limit

### (1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Value<br>(See Notes 1, 2, and 3) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -64 dBm                          |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement                                                                                                                                                                                                                                                                                                                                                                                                                                           | -64 dBm                          |
| <p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                                  |

### (2) DFS Response Requirements

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<br>See Note 1.                                                                                 |
| Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   |
| <p>Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating 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>Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent.</p> |                                                                                                           |

Measurements are performed with no data traffic.

### 4.3. Parameters of radar test waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

#### (1) Short Pulse Radar Test Waveforms

Table 5 – Short Pulse Radar Test Waveforms

| Radar Type                                                                                                                           | Pulse Width (μsec) | PRI(μsec)                                                                                                                                                     | Number of 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                                                                     |                  | 60%                                        | 30                       |
|                                                                                                                                      |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                  |                                            |                          |
| 2                                                                                                                                    | 1-5                | 150-230                                                                                                                                                       | 23-29            | 60%                                        | 30                       |
| 3                                                                                                                                    | 6-10               | 200-500                                                                                                                                                       | 16-18            | 60%                                        | 30                       |
| 4                                                                                                                                    | 11-20              | 200-500                                                                                                                                                       | 12-16            | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4)                                                                                                          |                    |                                                                                                                                                               |                  | 80%                                        | 120                      |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. |                    |                                                                                                                                                               |                  |                                            |                          |

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated

from the previous waveforms in Tests A or B. For example if in Short Pulse Radar Type 1 Test B a PRI of 3066  $\mu$ sec is selected, the number of pulses would be Roundup  $\{(1/360) \times (19 \times 106 / 3066)\} = \text{Round up } \{17.2\} = 18$ .

(2) Long Pulse Radar Test Waveform

Table 6 – Long Pulse Radar Test Waveform

| Radar Type | Pulse Width ( $\mu$ sec) | Chirp Width (MHz) | PRI ( $\mu$ sec) | 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                       |

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- 5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and

ends at 5310 MHz.

6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.

7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst Count. Each interval is of length  $(12,000,000 / \text{Burst Count})$  microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and  $[(12,000,000 / \text{Burst Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$  microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen randomly.

### (3) Frequency Hopping Radar Test Waveform

Table 7 – Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | 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                       |

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by that If a segment does not contain at least 1 frequency within the U-NII Detection Bandwidth of the UUT, then that segment is not used.

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

## 5. Calibration of radar waveform

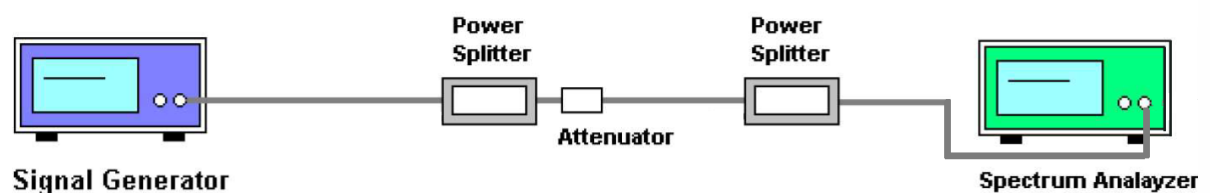
### 5.1. DFS Threshold Level

| DFS Threshold Level                                                                                                                                                                                   |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| DFS Theshold Level: -63 dBm                                                                                                                                                                           | At the antenna connector |
|                                                                                                                                                                                                       | In front of the antenna  |
| The Interference Radar Detection Threshold Level is $-63\text{dBm} + 6.43\text{ [dBi]} + 1\text{ dB} = -55.57\text{ dBm}$ . That had been taken into account the output power range and antenna gain. |                          |

### 5.2. Radar Waveform Calibration Procedure:

- (1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- (2) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0-6. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0 dB to compensate RF cable loss 1.0 dB.
- (3) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $-63\text{ dBm} + 6.43\text{ dBi} + 1\text{ dB} = -55.57\text{ dBm}$ . Capture the spectrum analyzer plots on radar waveform.

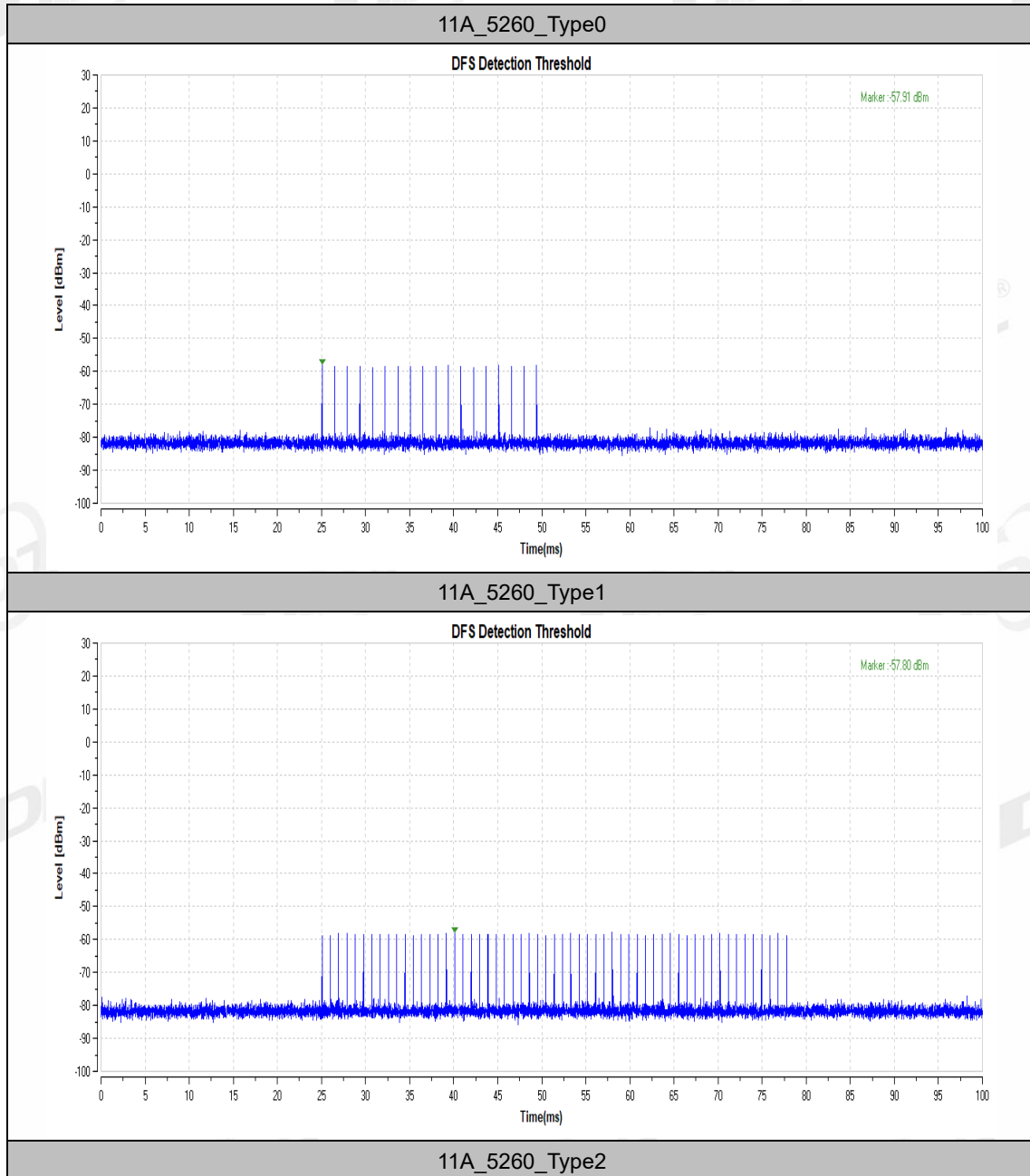
### 5.3. Conducted Calibration Setup

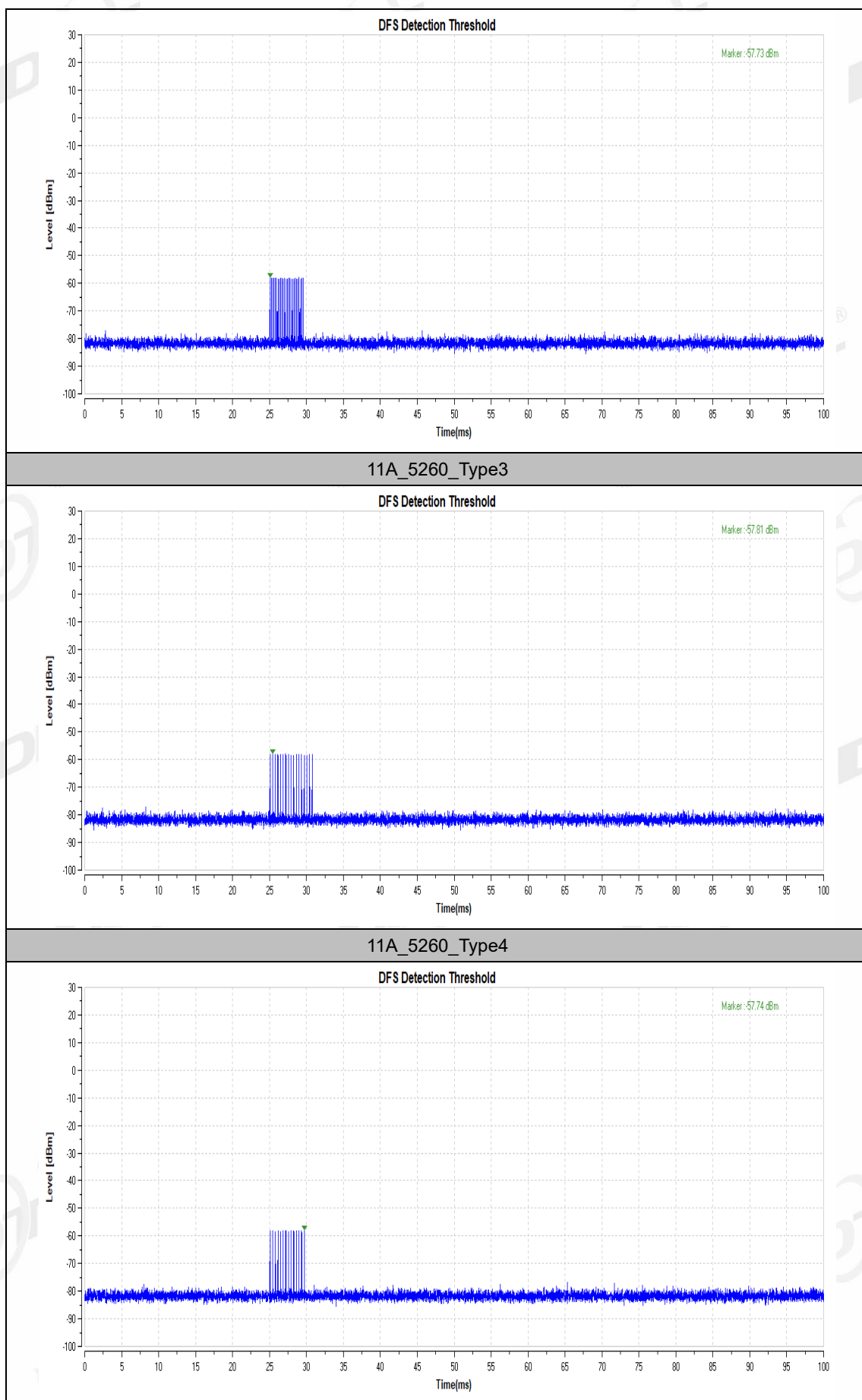


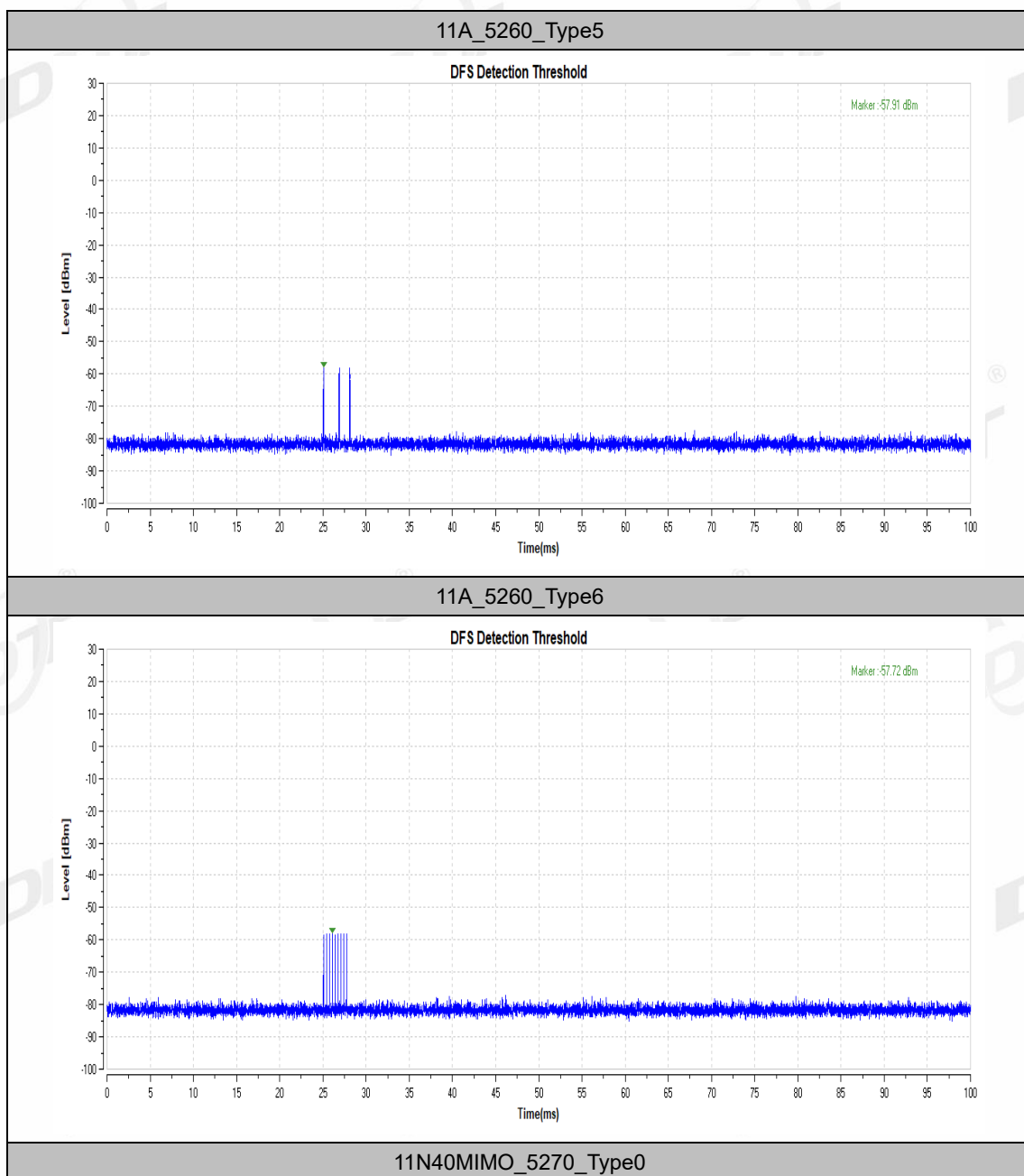
**5.4. Radar Waveform Calibration Result**

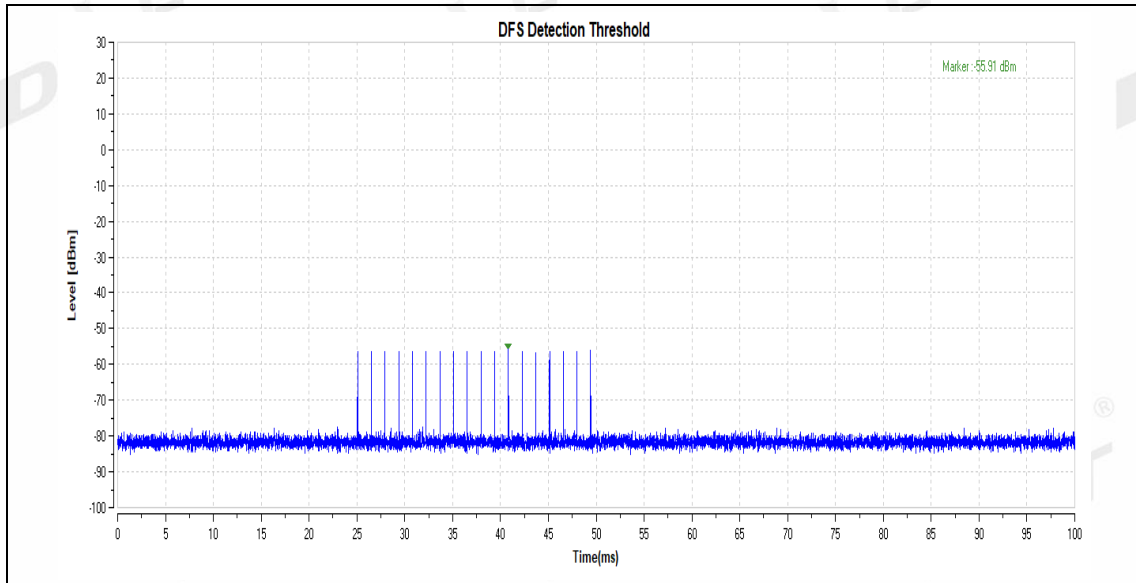
| Test Mode   | Frequency[dbm] | Radar Type | Result | Limit[dbm] | Verdict |
|-------------|----------------|------------|--------|------------|---------|
| 11A         | 5260           | Type0      | -57.91 | -55.57     | PASS    |
|             |                | Type1      | -57.80 | -55.57     | PASS    |
|             |                | Type2      | -57.73 | -55.57     | PASS    |
|             |                | Type3      | -57.81 | -55.57     | PASS    |
|             |                | Type4      | -57.74 | -55.57     | PASS    |
|             |                | Type5      | -57.91 | -55.57     | PASS    |
|             |                | Type6      | -57.72 | -55.57     | PASS    |
| 11N40MIMO   | 5270           | Type0      | -55.91 | -55.57     | PASS    |
|             |                | Type1      | -55.80 | -55.57     | PASS    |
|             |                | Type2      | -55.78 | -55.57     | PASS    |
|             |                | Type3      | -55.77 | -55.57     | PASS    |
|             |                | Type4      | -55.76 | -55.57     | PASS    |
|             |                | Type5      | -55.82 | -55.57     | PASS    |
|             |                | Type6      | -55.59 | -55.57     | PASS    |
| 11AC80MIMO  | 5290           | Type0      | -55.58 | -55.57     | PASS    |
|             |                | Type1      | -55.82 | -55.57     | PASS    |
|             |                | Type2      | -55.75 | -55.57     | PASS    |
|             |                | Type3      | -55.78 | -55.57     | PASS    |
|             |                | Type4      | -55.81 | -55.57     | PASS    |
|             |                | Type5      | -56.05 | -55.57     | PASS    |
|             |                | Type6      | -56.02 | -55.57     | PASS    |
| 11AC160MIMO | 5250           | Type0      | -55.92 | -55.57     | PASS    |
|             |                | Type1      | -55.94 | -55.57     | PASS    |
|             |                | Type2      | -55.94 | -55.57     | PASS    |
|             |                | Type3      | -55.91 | -55.57     | PASS    |
|             |                | Type4      | -55.95 | -55.57     | PASS    |
|             |                | Type5      | -56.06 | -55.57     | PASS    |
|             |                | Type6      | -59.43 | -55.57     | PASS    |

### 5.5. Test Graphs

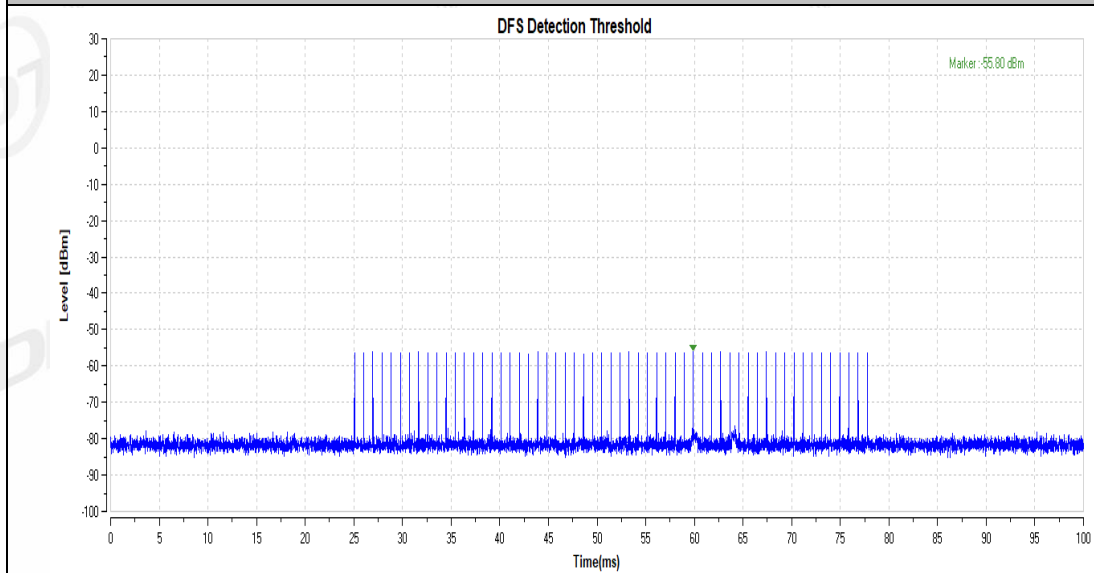




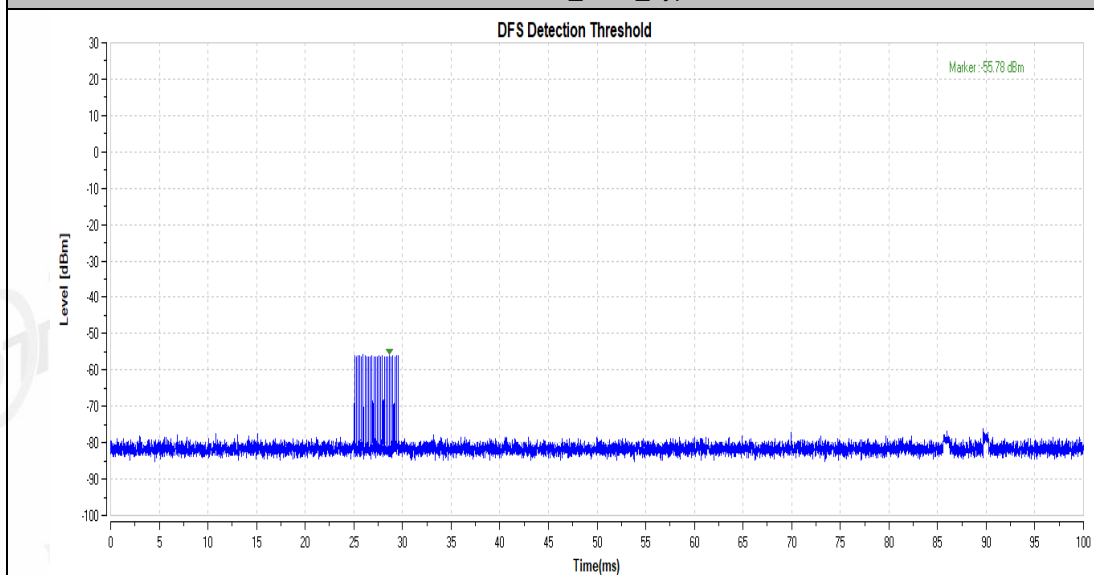


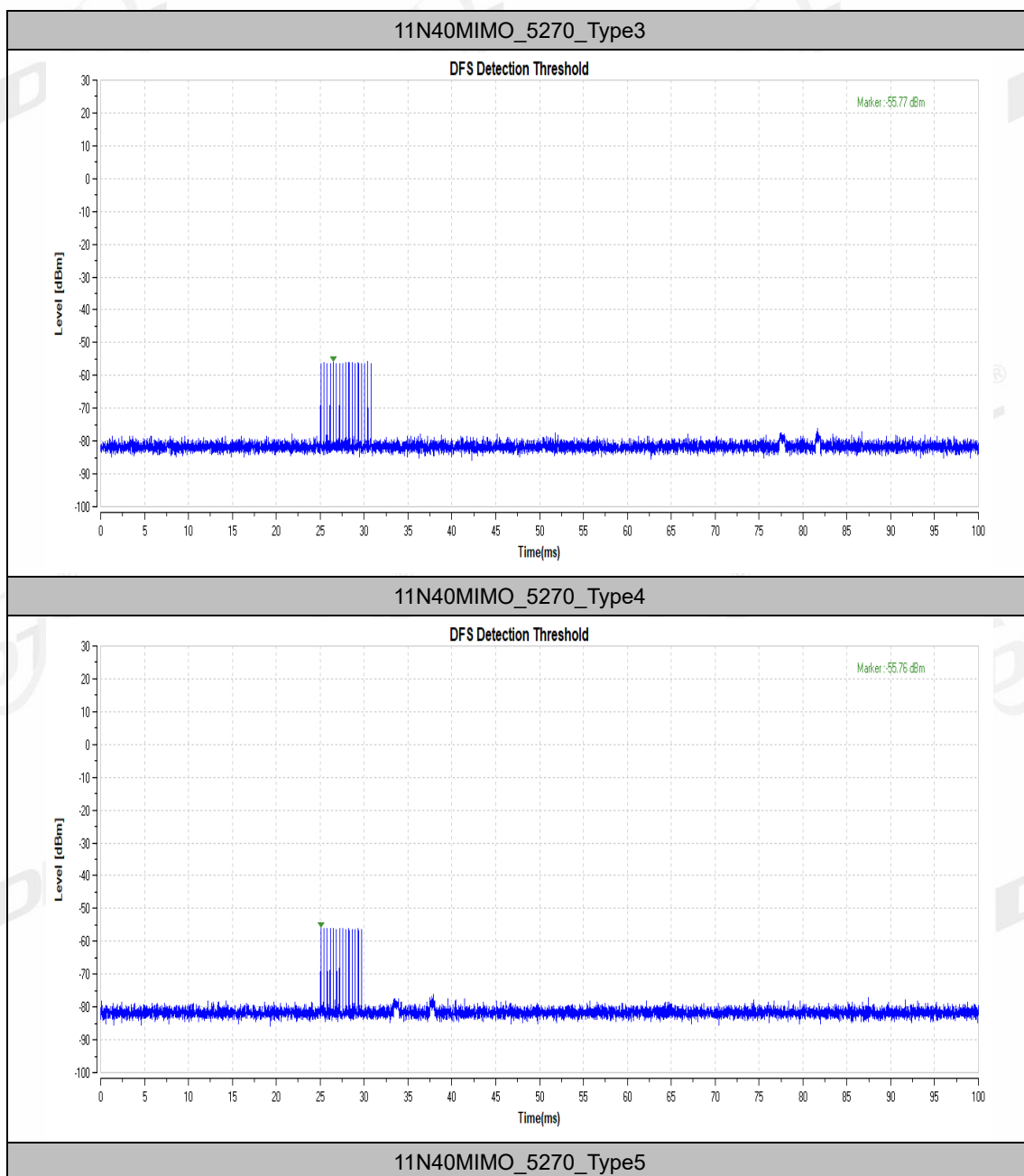


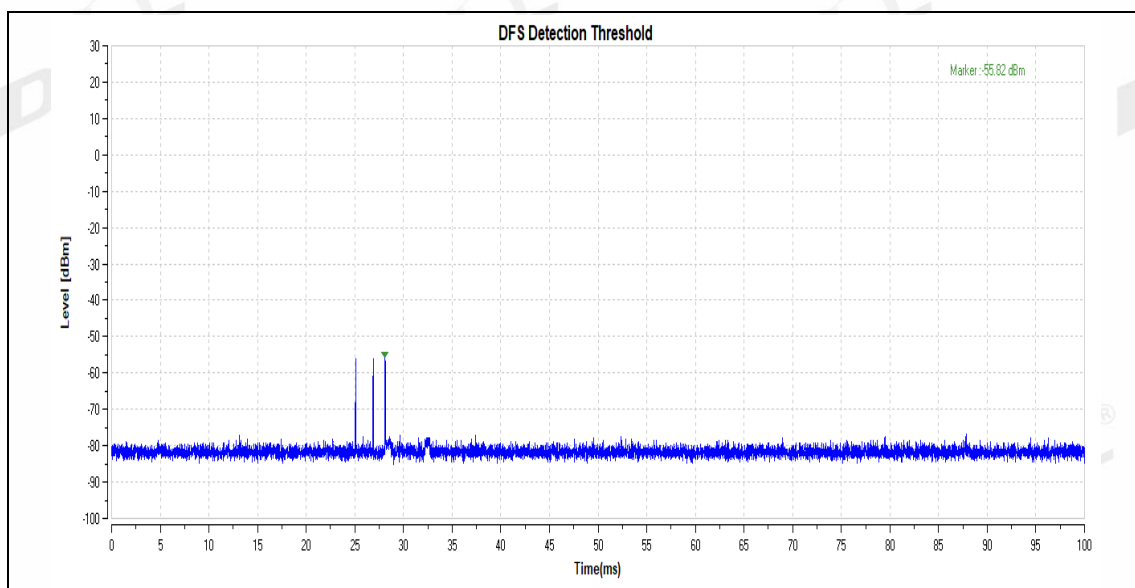
11N40MIMO\_5270\_Type1



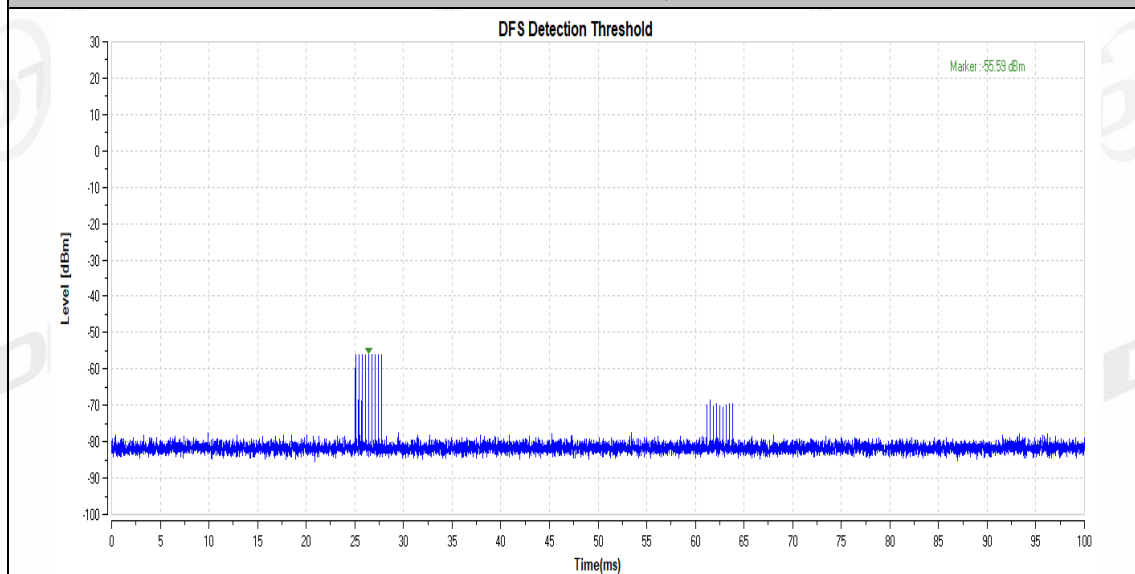
11N40MIMO\_5270\_Type2



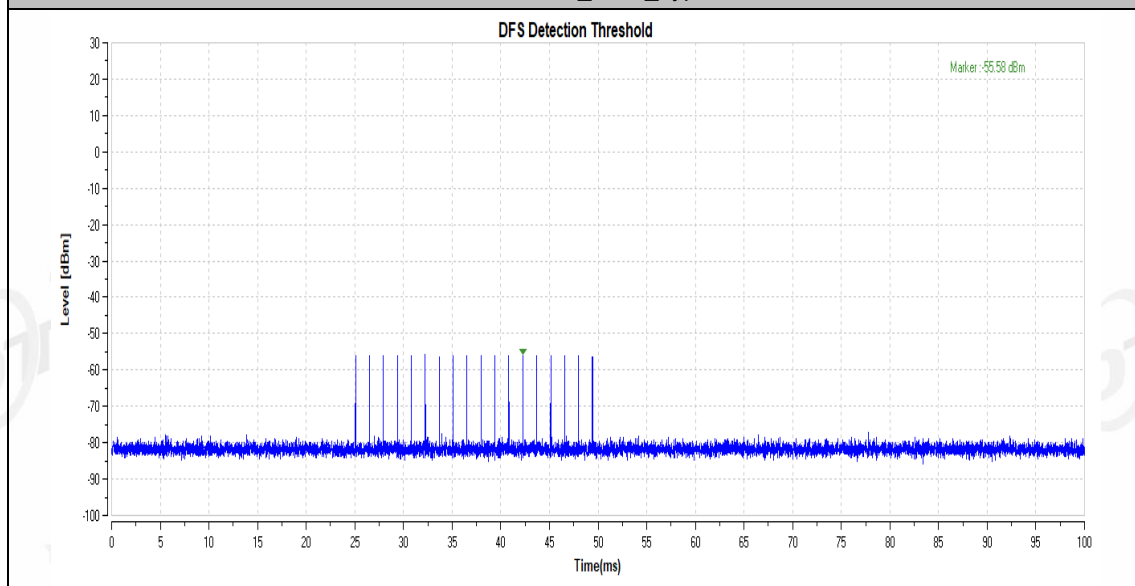


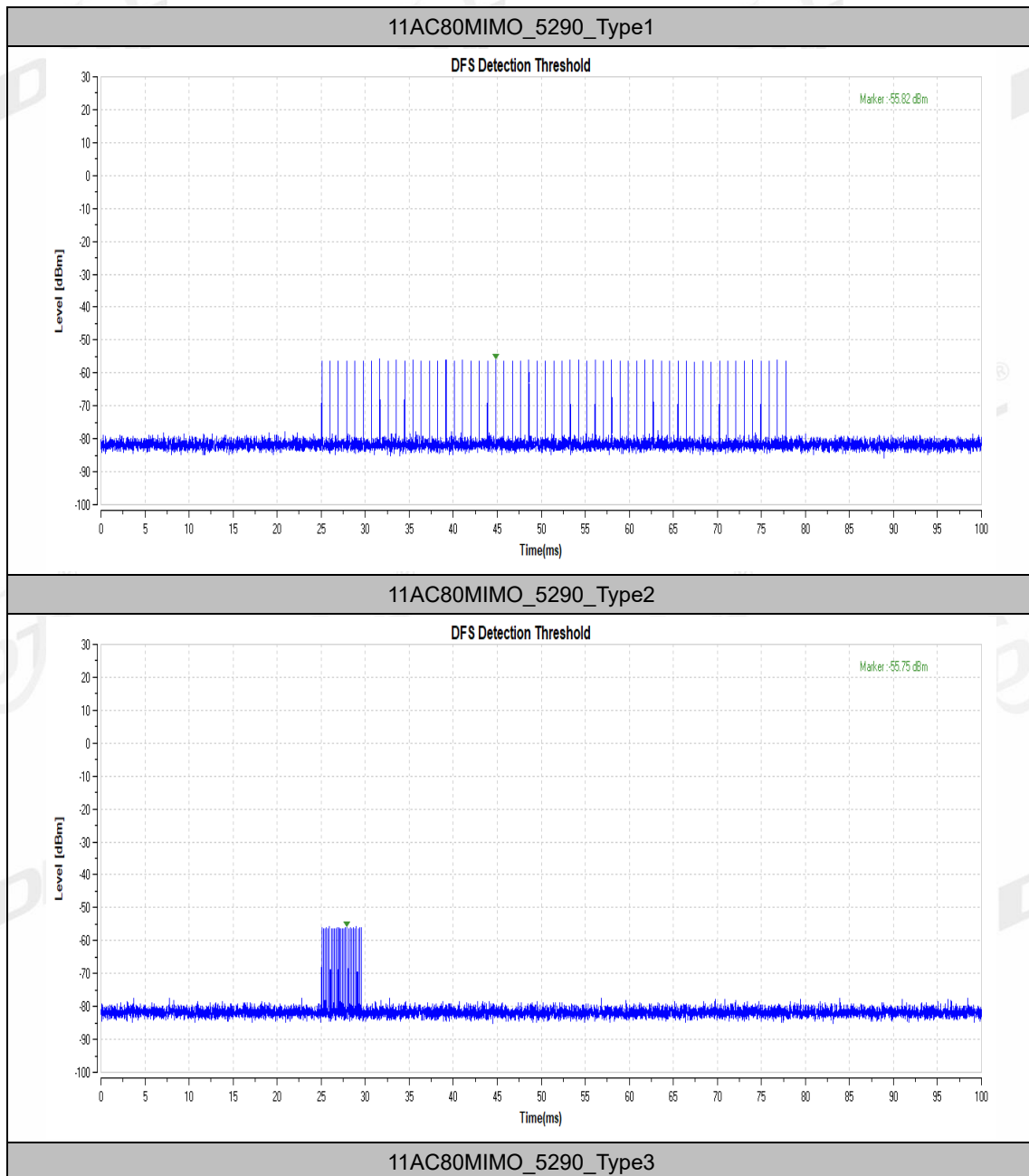


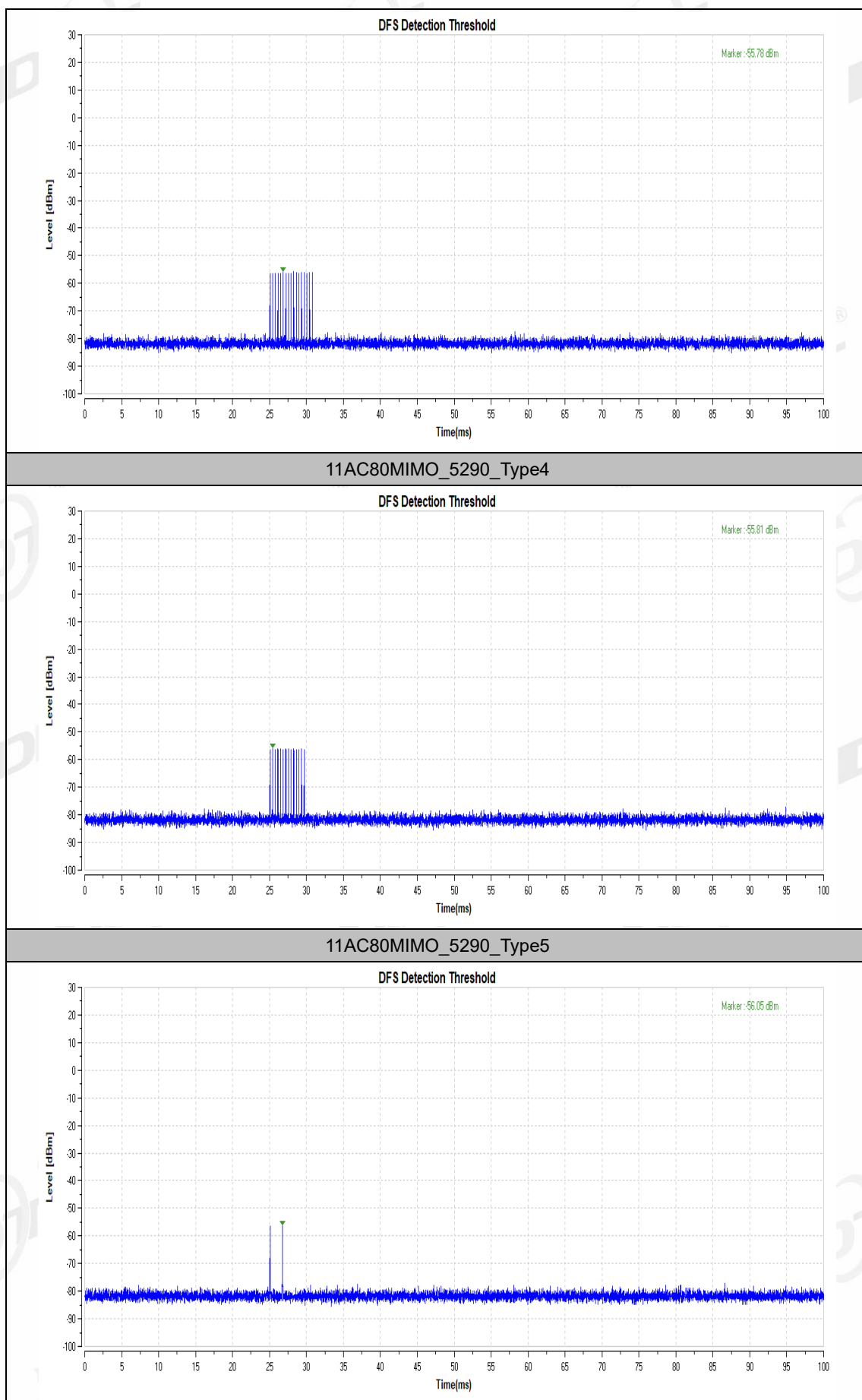
11N40MIMO\_5270\_Type6

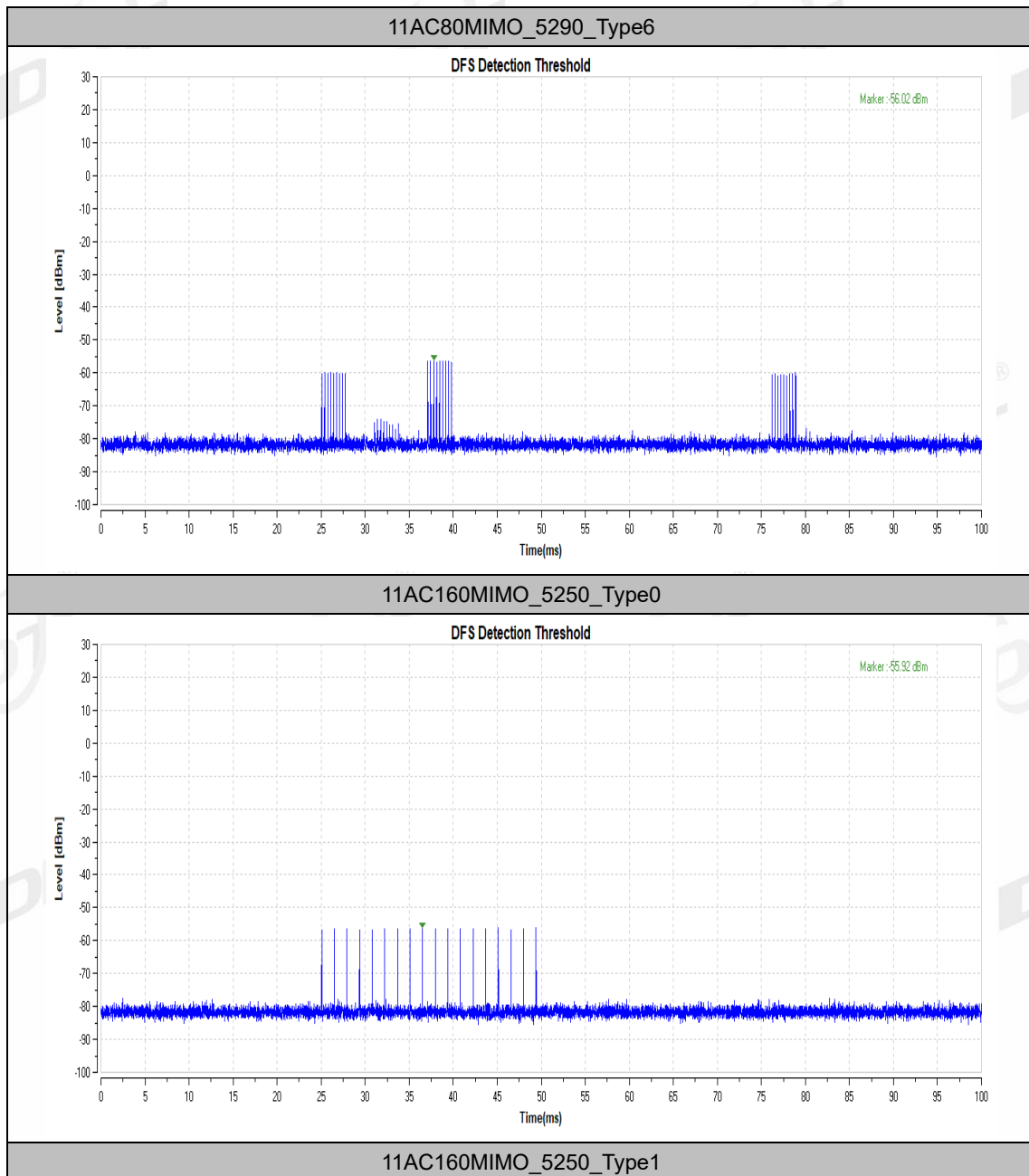


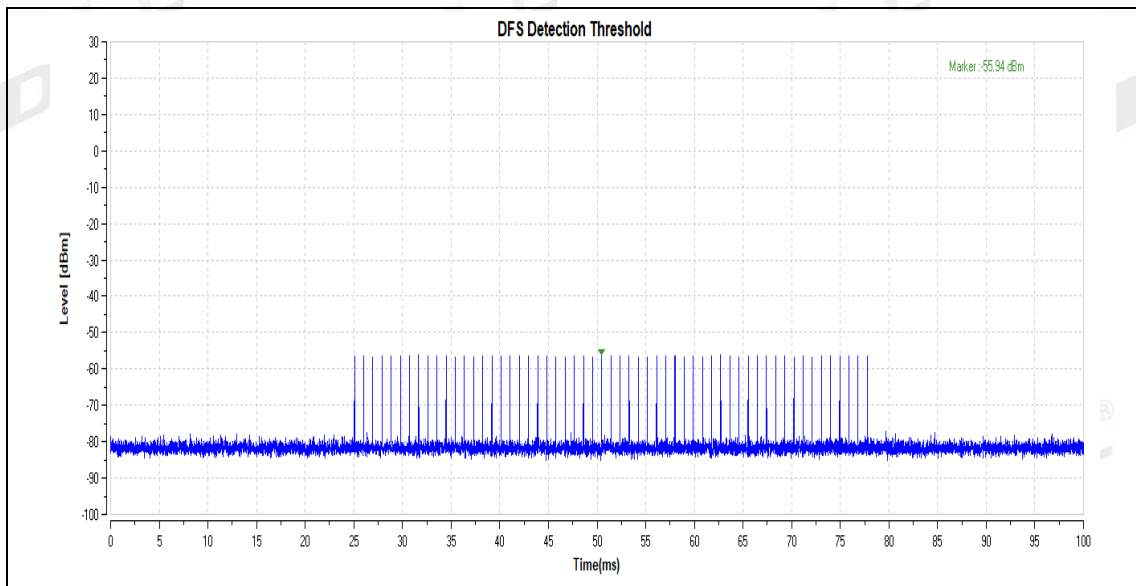
11AC80MIMO\_5290\_Type0



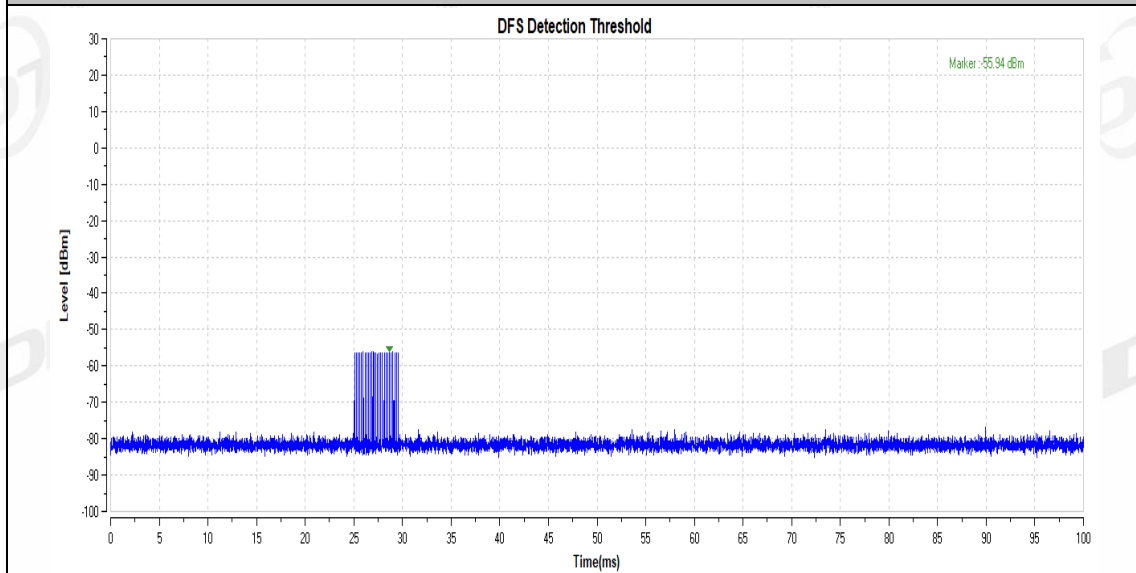




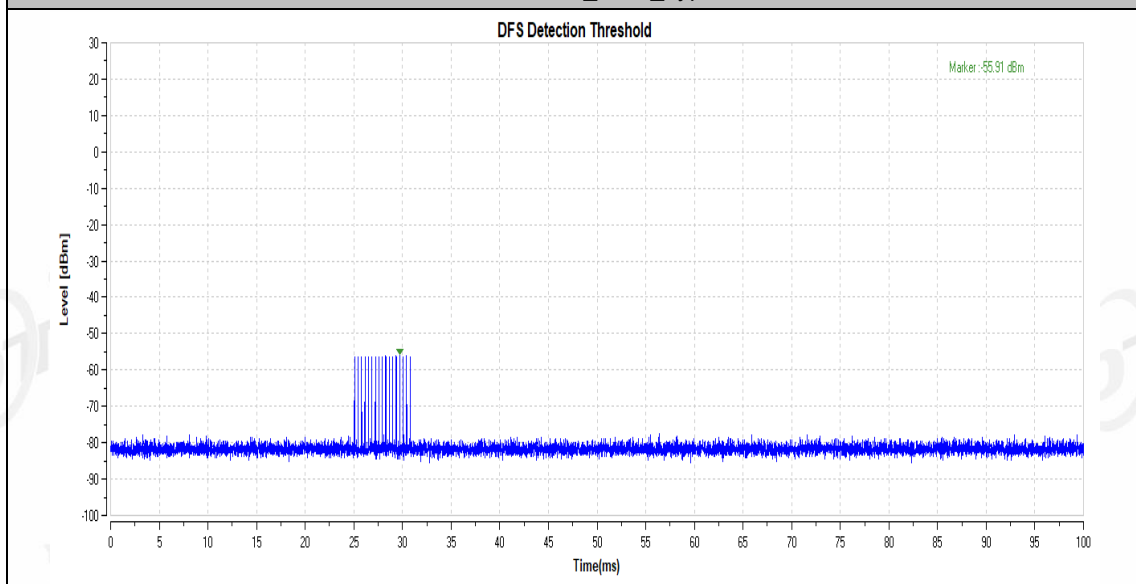


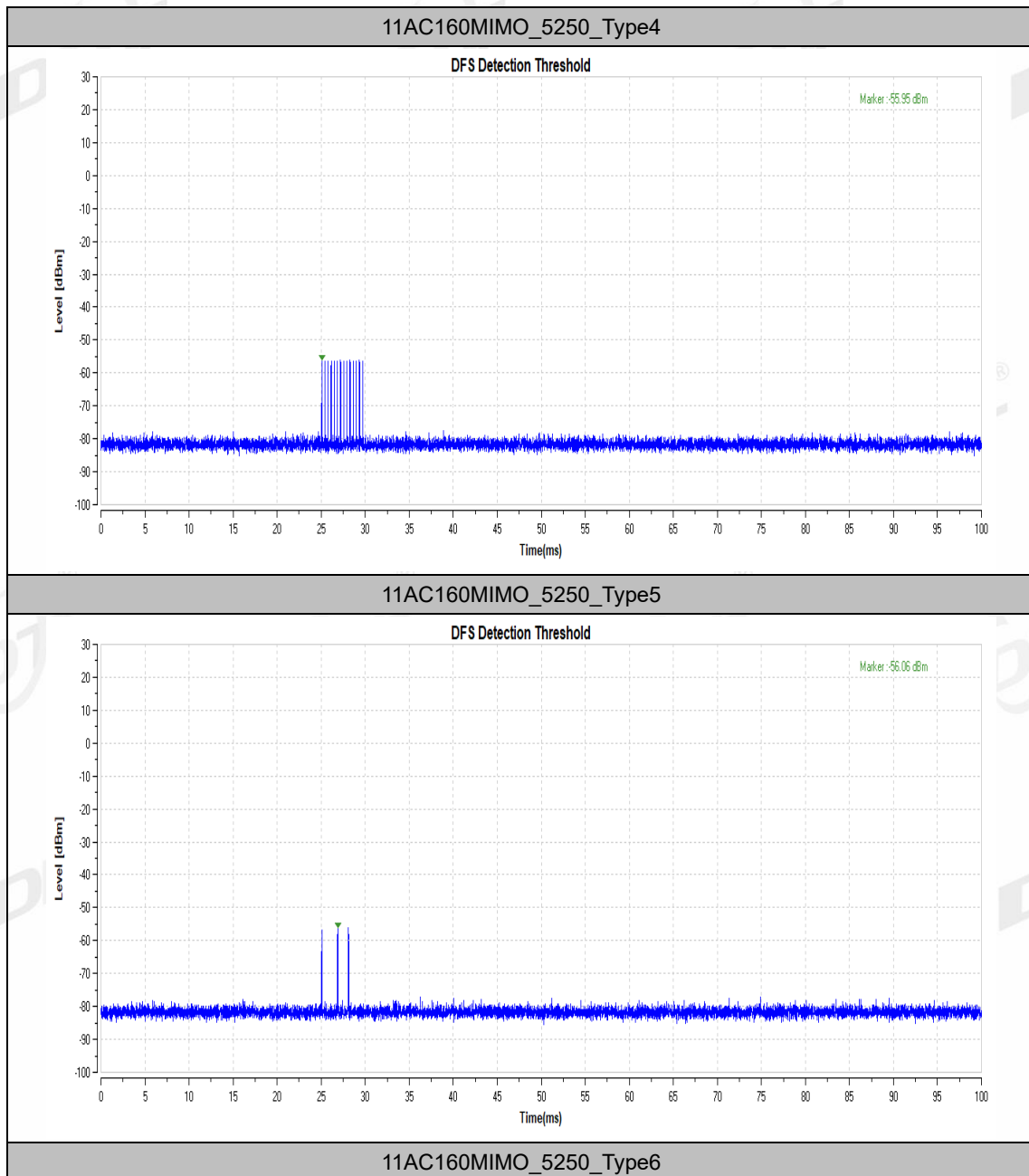


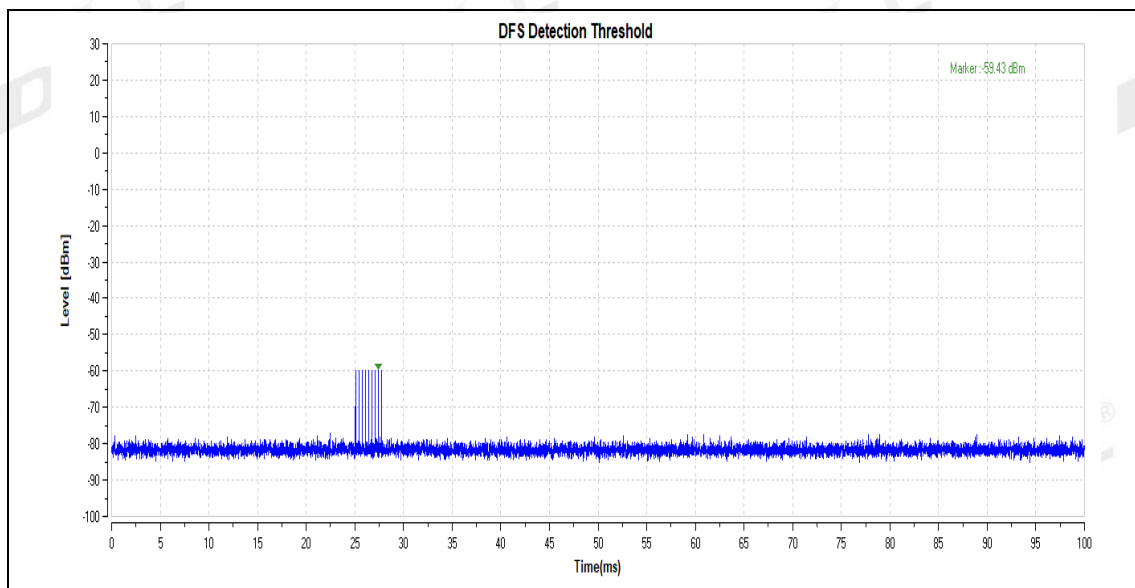
11AC160MIMO\_5250\_Type2



11AC160MIMO\_5250\_Type3







## 6. Channel Availability Check Time (CAC)

### 6.1. Channel Availability Check Limit

|                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|
| Channel Availability Check Limit                                                                                                 |
| The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle. |

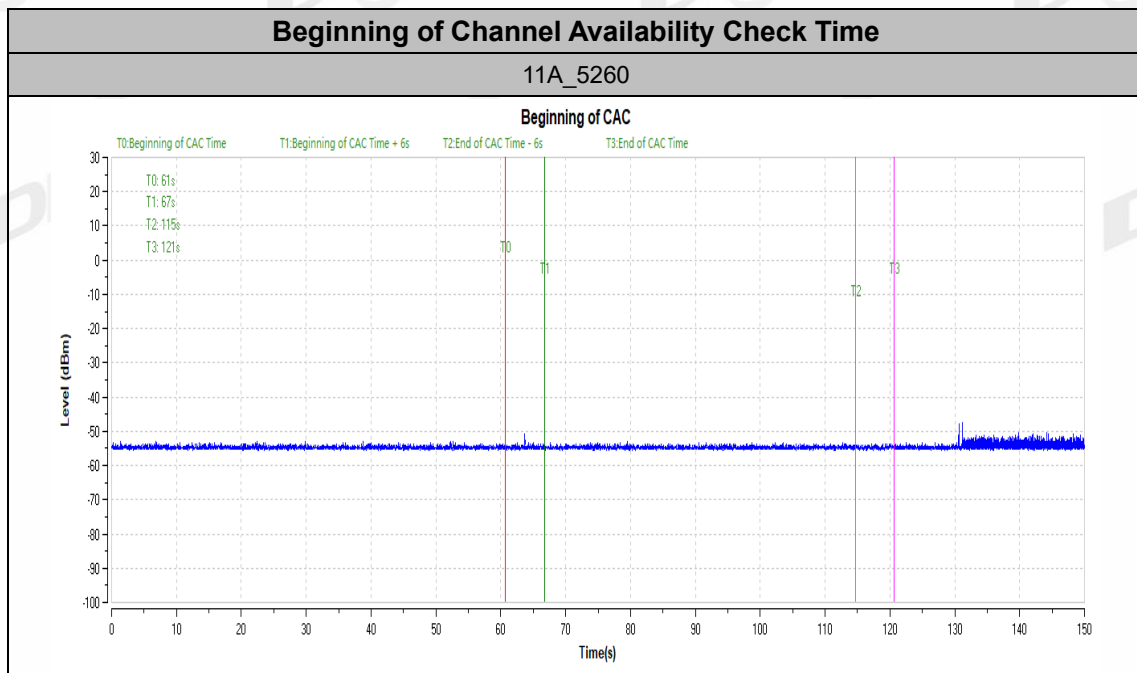
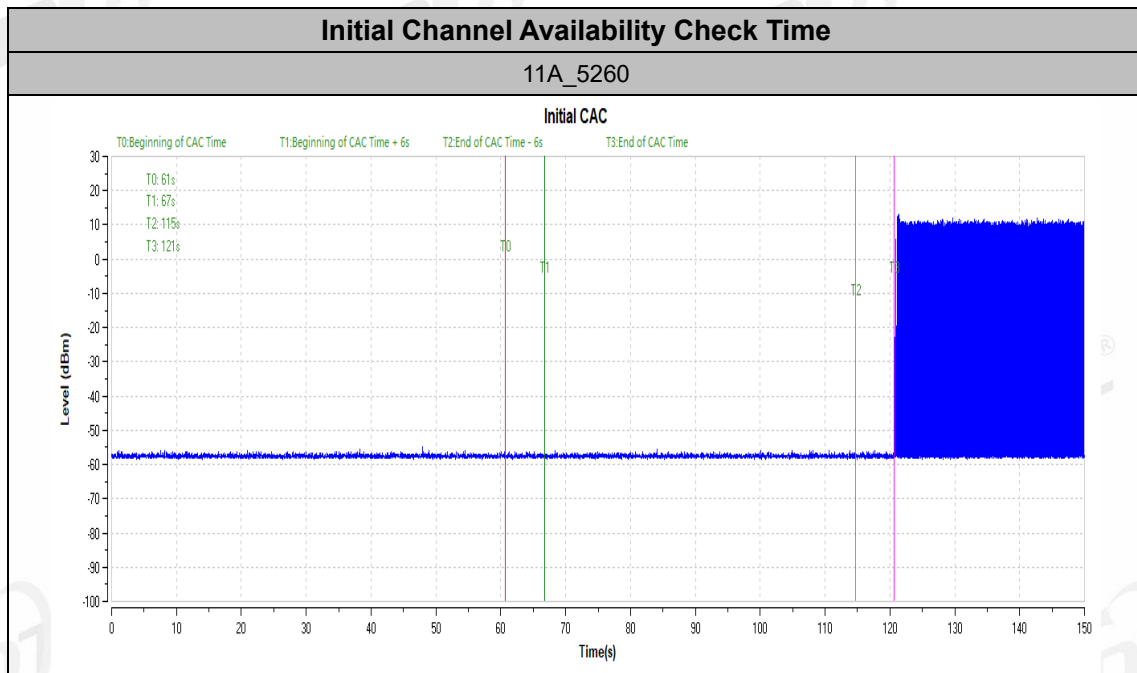
### 6.2. Test Procedure

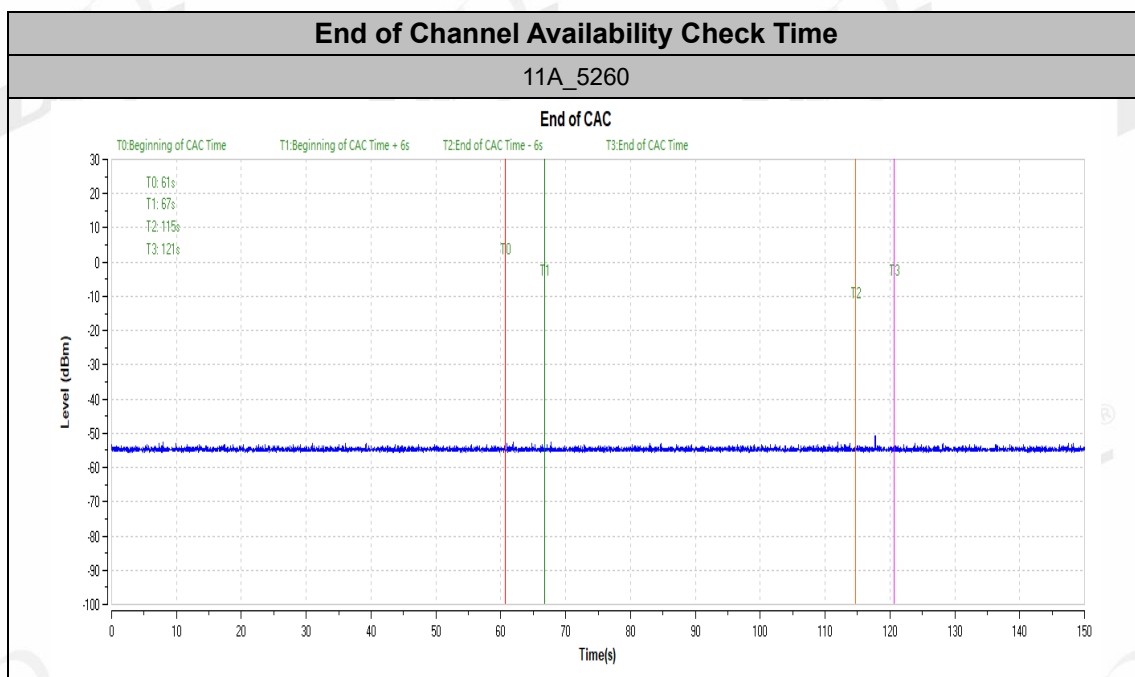
- (1) Channel Availability Check Time (CAC)
- (2) With link established on channel, apply a radar signal within 0~6 seconds after the initial power-up period; monitor the transmissions on channel from the spectrum analyzer.
- (3) Reboot EUT, with a link established on channel, apply a radar signal within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

### 6.3. Test Result

| Item                                         | Test Mode | Frequency[MHz] | Result         | Verdict |
|----------------------------------------------|-----------|----------------|----------------|---------|
| Initial Channel Availability Check Time      | 11A       | 5260           | See test Graph | ---     |
| Beginning of Channel Availability Check Time | 11A       | 5260           | See test Graph | PASS    |
| End of Channel Availability Check Time       | 11A       | 5260           | See test Graph | PASS    |

## 6.4. Test Graphs





## 7. Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

### 7.1. In-service Monitoring Limit

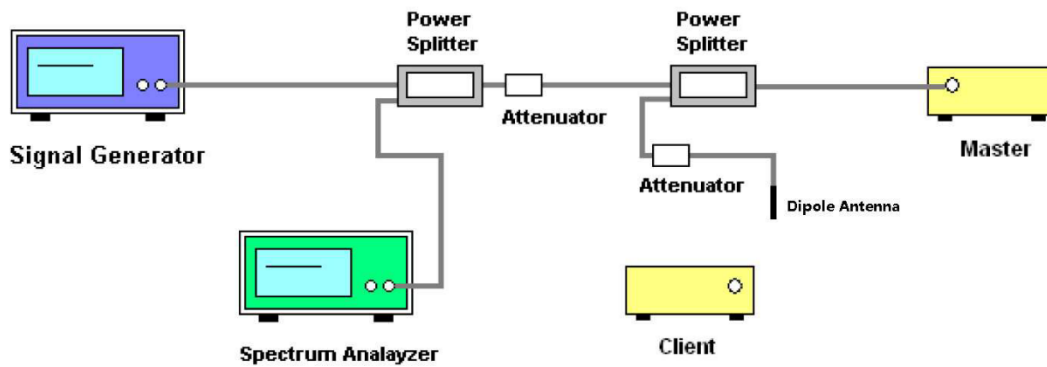
| In-service Monitoring Limit       |                                                               |
|-----------------------------------|---------------------------------------------------------------|
| Channel Move Time                 | 10 sec                                                        |
| Channel Closing Transmission Time | 200 ms + an aggregate of 60 ms over remaining 10 sec periods. |
| Non-Occupancy Period              | Minimum 30 minutes                                            |

### 7.2. Test Procedure

- (1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) Stream the channel loading test file from the Master Device to the Client Device on the test Channel
- (5) for the entire period of the test. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- (6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- (7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $Dwell (0.3ms) = S (12000ms) / B (4000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C (ms) = N \times Dwell (0.3ms)$ ; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

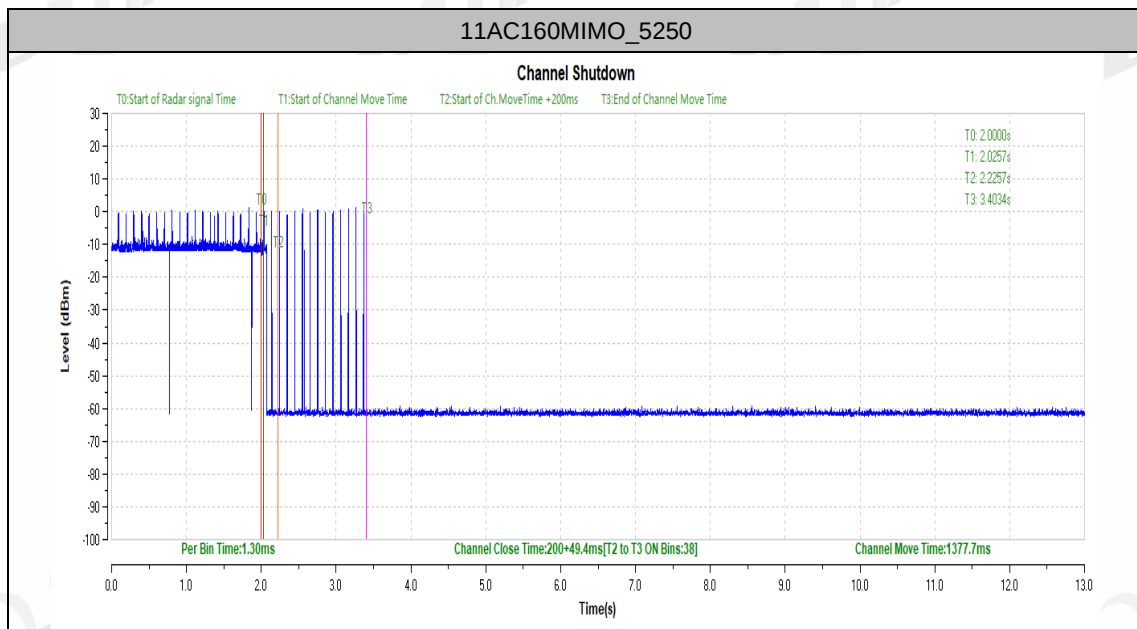
### 7.3. Test setup



### 7.4. Test result

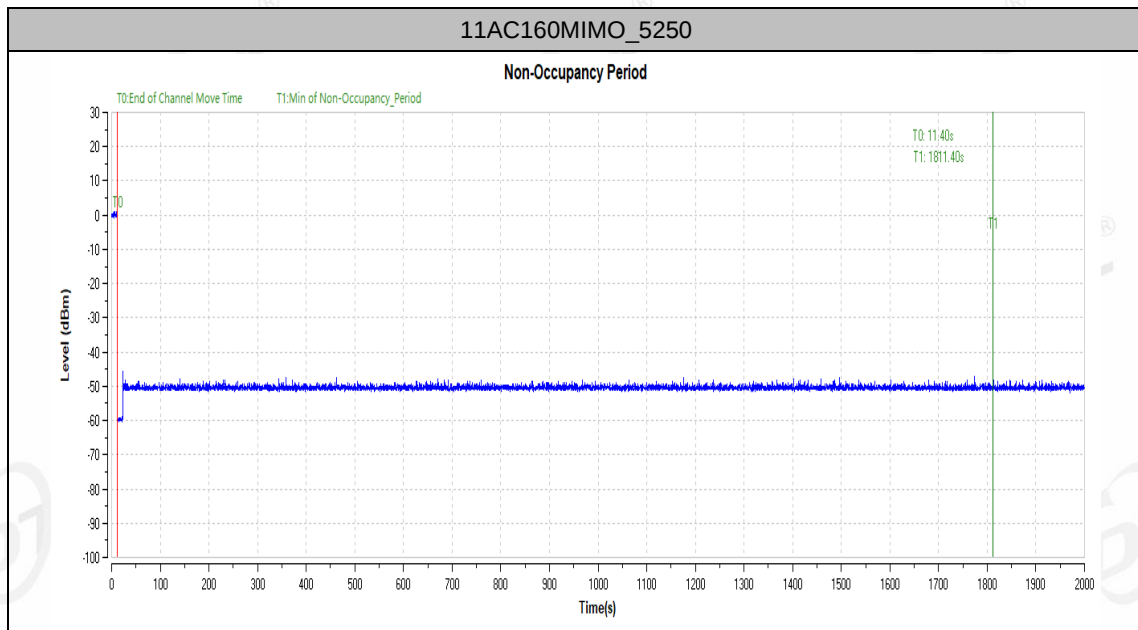
Channel Move Time and Channel Closing Transmission Time:

| Test Mode   | Frequency[MHz] | CCTT[ms] | Limit[ms] | CMT[ms] | Limit[ms] | Verdict |
|-------------|----------------|----------|-----------|---------|-----------|---------|
| 11AC160MIMO | 5250           | 200+49.4 | 200+60    | 1377.7  | 10000     | PASS    |



## Non-Occupancy Period:

| Test Mode   | Frequency[MHz] | Result         | Limit[s] | Verdict |
|-------------|----------------|----------------|----------|---------|
| 11AC160MIMO | 5250           | see test graph | ≥1800    | PASS    |



## 8. Detection Bandwidth

### 8.1. Detection Bandwidth Limit

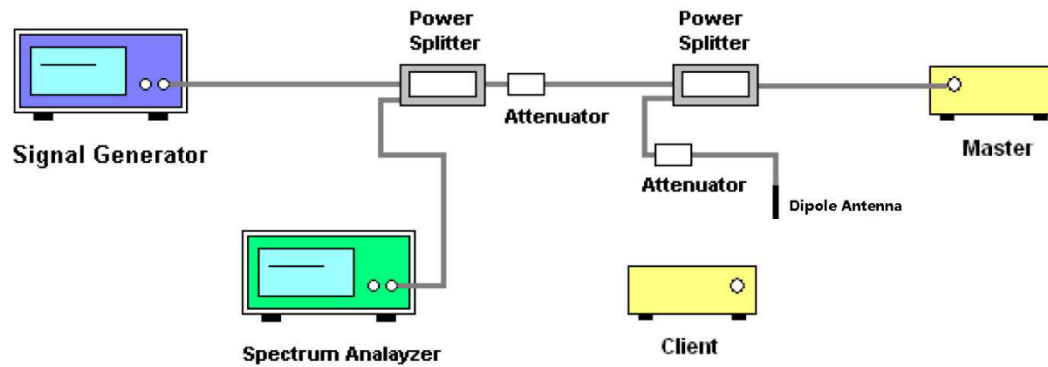
| Channel Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | UNII Detection Bandwidth (MHz) |
|-------------------------|------------------------------|--------------------------------|
| 20                      | 17.52                        | 18                             |
| 40                      | 36.8                         | 37                             |
| 80                      | 76.48                        | 77                             |
| 160                     | 156.48                       | 157                            |

U-NII Detection Bandwidth is Minimum 100% of the U-NII 99% transmission power bandwidth. 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.

### 8.2. Test Procedure

- (1) 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 FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance. Starting at the center frequency of the 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 FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
- (2) The U-NII Detection Bandwidth is calculated as follows: U-NII Detection Bandwidth = FH – FL
- (3) The U-NII Detection Bandwidth must meet the U-NII Detection Bandwidth criterion specified in Table 4. Otherwise, the UUT does not comply with DFS requirements. This is essential to ensure that the UUT is capable of detecting Radar Waveforms across the same frequency spectrum that contains the significant energy from the system. In the case that the U-NII Detection Bandwidth is greater than or equal to the 99 percent power bandwidth for the measured FH and FL, the test can be truncated and the U-NII Detection Bandwidth can be reported as the measured FH and FL.

### 8.3. Test setup



### 8.4. Test Result

| Test Mode   | Frequency [MHz] | FL[MHz] | FH[MHz] | Detection Bandwidth [MHz] | OCB [MHz] | Ratio [%] | Limit [%] | Verdict |
|-------------|-----------------|---------|---------|---------------------------|-----------|-----------|-----------|---------|
| 11A         | 5260            | 5210    | 5290    | 20                        | 17.52     | 102.74    | ≥100      | PASS    |
| 11N40MIMO   | 5270            | 5220    | 5300    | 40                        | 36.8      | 100.54    | ≥100      | PASS    |
| 11AC80MIMO  | 5290            | 5235    | 5335    | 80                        | 76.48     | 100.68    | ≥100      | PASS    |
| 11AC160MIMO | 5250            | 5155    | 5340    | 160                       | 156.48    | 100.33    | ≥100      | PASS    |

| Test Mode | Frequency [MHz] | Radar Freq. | Trial 1 | Trial 2 | Trial 3 | Trial 4 | Trial 5 | Trial 6 | Trial 7 | Trial 8 | Trial 9 | Trial 10 | Ratio (%) |
|-----------|-----------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|
| 11A       | 5260            | 5250        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5255        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5260        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5265        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5270        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
| 11N40MIMO | 5270            | 5250        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5255        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5260        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5265        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5270        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5275        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5280        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5285        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |
|           |                 | 5290        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 100       |

|            |      |      |   |   |   |   |   |   |   |   |   |   |     |
|------------|------|------|---|---|---|---|---|---|---|---|---|---|-----|
| 11AC80MIMO | 5290 | 5250 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 90  |
|            |      | 5255 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|            |      | 5260 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |

|                 |      |      |   |   |   |   |   |   |   |   |   |   |     |
|-----------------|------|------|---|---|---|---|---|---|---|---|---|---|-----|
|                 |      | 5265 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5270 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5275 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5280 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5285 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5290 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5295 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5300 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5305 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5310 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5315 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5320 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5325 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5330 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
| 11AC160<br>MIMO | 5250 | 5170 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5175 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5180 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5185 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5190 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5195 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5200 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5205 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5210 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5215 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5220 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5225 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5230 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5235 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5240 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5245 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5250 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5255 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5260 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5265 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5270 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5275 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5280 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5285 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5290 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5295 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5300 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5305 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|                 |      | 5310 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |

|  |  |      |   |   |   |   |   |   |   |   |   |   |     |
|--|--|------|---|---|---|---|---|---|---|---|---|---|-----|
|  |  | 5315 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|  |  | 5320 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|  |  | 5325 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |
|  |  | 5330 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 |

## 9. Statistical Performance Check

### 9.1. Statistical Performance Check Limit

| Radar Type             | Minimum Percentage of Successful Detection | Minimum Trials |
|------------------------|--------------------------------------------|----------------|
| 1                      | 60%                                        | 30             |
| 2                      | 60%                                        | 30             |
| 3                      | 60%                                        | 30             |
| 4                      | 60%                                        | 30             |
| Aggregate (Type1 to 4) | 80%                                        | 120            |
| 5                      | 80%                                        | 30             |
| 6                      | 70%                                        | 30             |

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100 = \text{Percentage of Successful Detection Radar Waveform N} = P_d N$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Type 1-4 is required and is calculated as follows:

$$\frac{P_{d1} + P_{d2} + P_{d3} + P_{d4}}{4}$$

### 9.2. Test Procedure

The steps below define the procedure to determine the minimum percentage of successful detection requirements found in Tables 5-7 when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

- One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
- In case the UUT is a U-NII device operating as a Client Device (with or without Radar Detection), a U-NII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the UUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
- At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1- 6 in Tables 5-7, at levels defined in Table 3, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS

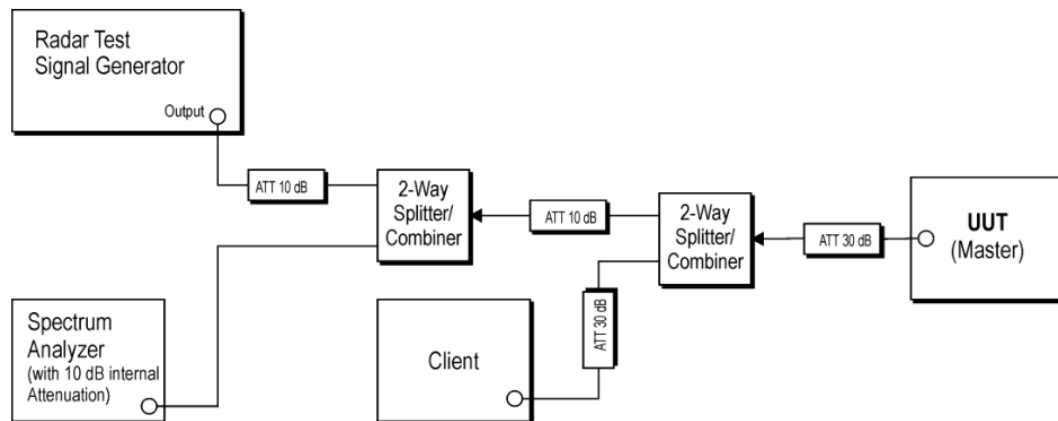
Detection Threshold, accounting for equipment variations/errors.

e) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.

f) Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.

g) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).

### 9.3. Test setup



## 9.4. Test Result

| Test Mode   | Frequency[MHz] | Radar Type | Pass Times | Fail Times | Probability (%) | Limit (%) | Verdict |
|-------------|----------------|------------|------------|------------|-----------------|-----------|---------|
| 11A         | 5260           | Type0      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type1      | 28         | 2          | 93.33           | 60        | PASS    |
|             |                | Type2      | 28         | 2          | 93.33           | 60        | PASS    |
|             |                | Type3      | 27         | 3          | 90.00           | 60        | PASS    |
|             |                | Type4      | 26         | 4          | 86.67           | 60        | PASS    |
|             |                | Type 1-4   | ---        | ---        | 92.50           | 80        | PASS    |
|             |                | Type5      | 30         | 0          | 100.00          | 80        | PASS    |
|             |                | Type6      | 30         | 0          | 100.00          | 70        | PASS    |
| 11N40MIMO   | 5270           | Type0      | 28         | 2          | 93.33           | 60        | PASS    |
|             |                | Type1      | 28         | 2          | 100.00          | 60        | PASS    |
|             |                | Type2      | 28         | 2          | 93.33           | 60        | PASS    |
|             |                | Type3      | 27         | 3          | 90.00           | 60        | PASS    |
|             |                | Type4      | 26         | 4          | 86.67           | 60        | PASS    |
|             |                | Type 1-4   | ---        | ---        | 92.50           | 80        | PASS    |
|             |                | Type5      | 30         | 0          | 100.00          | 80        | PASS    |
|             |                | Type6      | 30         | 0          | 100.00          | 70        | PASS    |
| 11AC80MIMO  | 5290           | Type0      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type1      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type2      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type3      | 27         | 3          | 90.00           | 60        | PASS    |
|             |                | Type4      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type 1-4   | ---        | ---        | 97.50           | 80        | PASS    |
|             |                | Type5      | 30         | 0          | 100.00          | 80        | PASS    |
|             |                | Type6      | 30         | 0          | 100.00          | 70        | PASS    |
| 11AC160MIMO | 5250           | Type0      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type1      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type2      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type3      | 27         | 3          | 90.00           | 60        | PASS    |
|             |                | Type4      | 30         | 0          | 100.00          | 60        | PASS    |
|             |                | Type 1-4   | ---        | ---        | 97.50           | 80        | PASS    |
|             |                | Type5      | 30         | 0          | 100.00          | 80        | PASS    |
|             |                | Type6      | 30         | 0          | 100.00          | 70        | PASS    |

| Test Mode | Frequency[MHz] | Radar Type | Trial ID | Pulse width(μs) | PRI(μs) | Pulses per Burst | Detection (1: Yes; 0: No) |
|-----------|----------------|------------|----------|-----------------|---------|------------------|---------------------------|
| 11A       | 5260           | Type0      | 0        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 1        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 2        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 3        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 4        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 5        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 6        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 7        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 8        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 9        | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 10       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 11       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 12       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 13       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 14       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 15       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 16       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 17       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 18       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 19       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 20       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 21       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 22       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 23       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 24       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 25       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 26       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 27       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 28       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type0      | 29       | 1.0             | 1428.0  | 18               | 1                         |
|           |                | Type1      | 0        | 1.0             | 938.0   | 57               | 1                         |
|           |                | Type1      | 1        | 1.0             | 698.0   | 76               | 1                         |
|           |                | Type1      | 2        | 1.0             | 618.0   | 86               | 1                         |
|           |                | Type1      | 3        | 1.0             | 538.0   | 99               | 0                         |
|           |                | Type1      | 4        | 1.0             | 878.0   | 61               | 1                         |
|           |                | Type1      | 5        | 1.0             | 3066.0  | 18               | 1                         |
|           |                | Type1      | 6        | 1.0             | 638.0   | 83               | 1                         |
|           |                | Type1      | 7        | 1.0             | 918.0   | 58               | 1                         |
|           |                | Type1      | 8        | 1.0             | 838.0   | 63               | 1                         |
|           |                | Type1      | 9        | 1.0             | 858.0   | 62               | 1                         |
|           |                | Type1      | 10       | 1.0             | 798.0   | 67               | 1                         |

|  |       |    |     |        |    |   |
|--|-------|----|-----|--------|----|---|
|  | Type1 | 11 | 1.0 | 718.0  | 74 | 1 |
|  | Type1 | 12 | 1.0 | 578.0  | 92 | 1 |
|  | Type1 | 13 | 1.0 | 598.0  | 89 | 0 |
|  | Type1 | 14 | 1.0 | 558.0  | 95 | 1 |
|  | Type1 | 15 | 1.0 | 2536.0 | 21 | 1 |
|  | Type1 | 16 | 1.0 | 966.0  | 55 | 1 |
|  | Type1 | 17 | 1.0 | 827.0  | 64 | 1 |
|  | Type1 | 18 | 1.0 | 2501.0 | 22 | 1 |
|  | Type1 | 19 | 1.0 | 2595.0 | 21 | 1 |
|  | Type1 | 20 | 1.0 | 1114.0 | 48 | 1 |
|  | Type1 | 21 | 1.0 | 1302.0 | 41 | 1 |
|  | Type1 | 22 | 1.0 | 3045.0 | 18 | 1 |
|  | Type1 | 23 | 1.0 | 1624.0 | 33 | 1 |
|  | Type1 | 24 | 1.0 | 2878.0 | 19 | 1 |
|  | Type1 | 25 | 1.0 | 1027.0 | 52 | 1 |
|  | Type1 | 26 | 1.0 | 2485.0 | 22 | 1 |
|  | Type1 | 27 | 1.0 | 1600.0 | 33 | 1 |
|  | Type1 | 28 | 1.0 | 1172.0 | 46 | 1 |
|  | Type1 | 29 | 1.0 | 1177.0 | 45 | 1 |
|  | Type2 | 0  | 3.2 | 179.0  | 26 | 1 |
|  | Type2 | 1  | 1.1 | 207.0  | 23 | 1 |
|  | Type2 | 2  | 2.1 | 230.0  | 24 | 1 |
|  | Type2 | 3  | 4.8 | 200.0  | 29 | 1 |
|  | Type2 | 4  | 3.9 | 214.0  | 28 | 1 |
|  | Type2 | 5  | 2.9 | 222.0  | 26 | 1 |
|  | Type2 | 6  | 3.2 | 204.0  | 26 | 1 |
|  | Type2 | 7  | 2.5 | 192.0  | 25 | 1 |
|  | Type2 | 8  | 3.1 | 164.0  | 26 | 1 |
|  | Type2 | 9  | 1.2 | 156.0  | 23 | 0 |
|  | Type2 | 10 | 3.9 | 210.0  | 27 | 1 |
|  | Type2 | 11 | 4.6 | 201.0  | 29 | 1 |
|  | Type2 | 12 | 3.2 | 162.0  | 26 | 1 |
|  | Type2 | 13 | 2.2 | 197.0  | 25 | 1 |
|  | Type2 | 14 | 4.5 | 163.0  | 29 | 1 |
|  | Type2 | 15 | 3.0 | 203.0  | 26 | 1 |
|  | Type2 | 16 | 5.0 | 168.0  | 29 | 1 |
|  | Type2 | 17 | 2.4 | 217.0  | 25 | 1 |
|  | Type2 | 18 | 2.9 | 191.0  | 26 | 1 |
|  | Type2 | 19 | 2.3 | 166.0  | 25 | 1 |
|  | Type2 | 20 | 3.7 | 150.0  | 27 | 1 |
|  | Type2 | 21 | 2.2 | 176.0  | 25 | 1 |
|  | Type2 | 22 | 4.9 | 195.0  | 29 | 1 |
|  | Type2 | 23 | 2.9 | 202.0  | 26 | 1 |

|  |       |    |      |       |    |   |
|--|-------|----|------|-------|----|---|
|  | Type2 | 24 | 2.5  | 178.0 | 25 | 0 |
|  | Type2 | 25 | 1.1  | 206.0 | 23 | 1 |
|  | Type2 | 26 | 3.8  | 155.0 | 27 | 1 |
|  | Type2 | 27 | 4.7  | 157.0 | 29 | 1 |
|  | Type2 | 28 | 2.4  | 224.0 | 25 | 1 |
|  | Type2 | 29 | 4.2  | 159.0 | 28 | 1 |
|  | Type3 | 0  | 8.2  | 355.0 | 17 | 1 |
|  | Type3 | 1  | 6.1  | 487.0 | 16 | 1 |
|  | Type3 | 2  | 7.1  | 344.0 | 16 | 1 |
|  | Type3 | 3  | 9.8  | 288.0 | 18 | 1 |
|  | Type3 | 4  | 8.9  | 230.0 | 18 | 0 |
|  | Type3 | 5  | 7.9  | 432.0 | 17 | 1 |
|  | Type3 | 6  | 8.2  | 207.0 | 17 | 0 |
|  | Type3 | 7  | 7.5  | 443.0 | 17 | 1 |
|  | Type3 | 8  | 8.1  | 439.0 | 17 | 1 |
|  | Type3 | 9  | 6.2  | 223.0 | 16 | 1 |
|  | Type3 | 10 | 8.9  | 208.0 | 18 | 1 |
|  | Type3 | 11 | 9.6  | 463.0 | 18 | 1 |
|  | Type3 | 12 | 8.2  | 441.0 | 17 | 1 |
|  | Type3 | 13 | 7.2  | 323.0 | 16 | 1 |
|  | Type3 | 14 | 9.5  | 297.0 | 18 | 1 |
|  | Type3 | 15 | 8.0  | 412.0 | 17 | 1 |
|  | Type3 | 16 | 10.0 | 324.0 | 18 | 1 |
|  | Type3 | 17 | 7.4  | 271.0 | 17 | 1 |
|  | Type3 | 18 | 7.9  | 349.0 | 17 | 1 |
|  | Type3 | 19 | 7.3  | 409.0 | 16 | 1 |
|  | Type3 | 20 | 8.7  | 373.0 | 18 | 1 |
|  | Type3 | 21 | 7.2  | 254.0 | 16 | 1 |
|  | Type3 | 22 | 9.9  | 274.0 | 18 | 1 |
|  | Type3 | 23 | 7.9  | 278.0 | 17 | 1 |
|  | Type3 | 24 | 7.5  | 317.0 | 17 | 1 |
|  | Type3 | 25 | 6.1  | 260.0 | 16 | 1 |
|  | Type3 | 26 | 8.8  | 211.0 | 18 | 0 |
|  | Type3 | 27 | 9.7  | 272.0 | 18 | 1 |
|  | Type3 | 28 | 7.4  | 264.0 | 17 | 1 |
|  | Type3 | 29 | 9.2  | 284.0 | 18 | 1 |
|  | Type4 | 0  | 16.0 | 355.0 | 14 | 1 |
|  | Type4 | 1  | 11.3 | 487.0 | 12 | 1 |
|  | Type4 | 2  | 13.5 | 344.0 | 13 | 1 |
|  | Type4 | 3  | 19.4 | 288.0 | 16 | 1 |
|  | Type4 | 4  | 17.5 | 230.0 | 15 | 1 |
|  | Type4 | 5  | 15.3 | 432.0 | 14 | 1 |
|  | Type4 | 6  | 15.9 | 207.0 | 14 | 0 |

|               |      |       |    |      |        |    |   |
|---------------|------|-------|----|------|--------|----|---|
|               |      | Type4 | 7  | 14.3 | 443.0  | 13 | 1 |
|               |      | Type4 | 8  | 15.8 | 439.0  | 14 | 1 |
|               |      | Type4 | 9  | 11.5 | 223.0  | 12 | 0 |
|               |      | Type4 | 10 | 17.4 | 208.0  | 15 | 0 |
|               |      | Type4 | 11 | 19.0 | 463.0  | 16 | 1 |
|               |      | Type4 | 12 | 16.0 | 441.0  | 14 | 1 |
|               |      | Type4 | 13 | 13.8 | 323.0  | 13 | 1 |
|               |      | Type4 | 14 | 18.9 | 297.0  | 16 | 1 |
|               |      | Type4 | 15 | 15.5 | 412.0  | 14 | 1 |
|               |      | Type4 | 16 | 19.9 | 324.0  | 16 | 1 |
|               |      | Type4 | 17 | 14.1 | 271.0  | 13 | 1 |
|               |      | Type4 | 18 | 15.2 | 349.0  | 14 | 1 |
|               |      | Type4 | 19 | 13.8 | 409.0  | 13 | 1 |
|               |      | Type4 | 20 | 17.1 | 373.0  | 15 | 1 |
|               |      | Type4 | 21 | 13.8 | 254.0  | 13 | 1 |
|               |      | Type4 | 22 | 19.8 | 274.0  | 16 | 1 |
|               |      | Type4 | 23 | 15.3 | 278.0  | 14 | 1 |
|               |      | Type4 | 24 | 14.5 | 317.0  | 13 | 1 |
|               |      | Type4 | 25 | 11.3 | 260.0  | 12 | 1 |
|               |      | Type4 | 26 | 17.3 | 211.0  | 15 | 0 |
|               |      | Type4 | 27 | 19.2 | 272.0  | 16 | 1 |
|               |      | Type4 | 28 | 14.2 | 264.0  | 13 | 1 |
|               |      | Type4 | 29 | 18.2 | 284.0  | 15 | 1 |
| 11N40MI<br>MO | 5270 | Type0 | 0  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 1  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 2  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 3  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 4  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 5  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 6  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 7  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 8  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 9  | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 10 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 11 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 12 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 13 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 14 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 15 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 16 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 17 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 18 | 1.0  | 1428.0 | 18 | 1 |
|               |      | Type0 | 19 | 1.0  | 1428.0 | 18 | 1 |

|  |       |    |     |        |    |   |
|--|-------|----|-----|--------|----|---|
|  | Type0 | 20 | 1.0 | 1428.0 | 18 | 1 |
|  | Type0 | 21 | 1.0 | 1428.0 | 18 | 1 |
|  | Type0 | 22 | 1.0 | 1428.0 | 18 | 1 |
|  | Type0 | 23 | 1.0 | 1428.0 | 18 | 0 |
|  | Type0 | 24 | 1.0 | 1428.0 | 18 | 0 |
|  | Type0 | 25 | 1.0 | 1428.0 | 18 | 1 |
|  | Type0 | 26 | 1.0 | 1428.0 | 18 | 1 |
|  | Type0 | 27 | 1.0 | 1428.0 | 18 | 1 |
|  | Type0 | 28 | 1.0 | 1428.0 | 18 | 1 |
|  | Type0 | 29 | 1.0 | 1428.0 | 18 | 1 |
|  | Type1 | 0  | 1.0 | 938.0  | 57 | 1 |
|  | Type1 | 1  | 1.0 | 698.0  | 76 | 1 |
|  | Type1 | 2  | 1.0 | 618.0  | 86 | 1 |
|  | Type1 | 3  | 1.0 | 538.0  | 99 | 0 |
|  | Type1 | 4  | 1.0 | 878.0  | 61 | 1 |
|  | Type1 | 5  | 1.0 | 3066.0 | 18 | 1 |
|  | Type1 | 6  | 1.0 | 638.0  | 83 | 1 |
|  | Type1 | 7  | 1.0 | 918.0  | 58 | 1 |
|  | Type1 | 8  | 1.0 | 838.0  | 63 | 1 |
|  | Type1 | 9  | 1.0 | 858.0  | 62 | 1 |
|  | Type1 | 10 | 1.0 | 798.0  | 67 | 1 |
|  | Type1 | 11 | 1.0 | 718.0  | 74 | 1 |
|  | Type1 | 12 | 1.0 | 578.0  | 92 | 1 |
|  | Type1 | 13 | 1.0 | 598.0  | 89 | 0 |
|  | Type1 | 14 | 1.0 | 558.0  | 95 | 1 |
|  | Type1 | 15 | 1.0 | 2536.0 | 21 | 1 |
|  | Type1 | 16 | 1.0 | 966.0  | 55 | 1 |
|  | Type1 | 17 | 1.0 | 827.0  | 64 | 1 |
|  | Type1 | 18 | 1.0 | 2501.0 | 22 | 1 |
|  | Type1 | 19 | 1.0 | 2595.0 | 21 | 1 |
|  | Type1 | 20 | 1.0 | 1114.0 | 48 | 1 |
|  | Type1 | 21 | 1.0 | 1302.0 | 41 | 1 |
|  | Type1 | 22 | 1.0 | 3045.0 | 18 | 1 |
|  | Type1 | 23 | 1.0 | 1624.0 | 33 | 1 |
|  | Type1 | 24 | 1.0 | 2878.0 | 19 | 1 |
|  | Type1 | 25 | 1.0 | 1027.0 | 52 | 1 |
|  | Type1 | 26 | 1.0 | 2485.0 | 22 | 1 |
|  | Type1 | 27 | 1.0 | 1600.0 | 33 | 1 |
|  | Type1 | 28 | 1.0 | 1172.0 | 46 | 1 |
|  | Type1 | 29 | 1.0 | 1177.0 | 45 | 1 |
|  | Type2 | 0  | 3.2 | 179.0  | 26 | 1 |
|  | Type2 | 1  | 1.1 | 207.0  | 23 | 1 |
|  | Type2 | 2  | 2.1 | 230.0  | 24 | 1 |

|  |       |    |     |       |    |   |
|--|-------|----|-----|-------|----|---|
|  | Type2 | 3  | 4.8 | 200.0 | 29 | 1 |
|  | Type2 | 4  | 3.9 | 214.0 | 28 | 1 |
|  | Type2 | 5  | 2.9 | 222.0 | 26 | 1 |
|  | Type2 | 6  | 3.2 | 204.0 | 26 | 1 |
|  | Type2 | 7  | 2.5 | 192.0 | 25 | 1 |
|  | Type2 | 8  | 3.1 | 164.0 | 26 | 1 |
|  | Type2 | 9  | 1.2 | 156.0 | 23 | 1 |
|  | Type2 | 10 | 3.9 | 210.0 | 27 | 1 |
|  | Type2 | 11 | 4.6 | 201.0 | 29 | 1 |
|  | Type2 | 12 | 3.2 | 162.0 | 26 | 1 |
|  | Type2 | 13 | 2.2 | 197.0 | 25 | 1 |
|  | Type2 | 14 | 4.5 | 163.0 | 29 | 1 |
|  | Type2 | 15 | 3.0 | 203.0 | 26 | 1 |
|  | Type2 | 16 | 5.0 | 168.0 | 29 | 1 |
|  | Type2 | 17 | 2.4 | 217.0 | 25 | 1 |
|  | Type2 | 18 | 2.9 | 191.0 | 26 | 1 |
|  | Type2 | 19 | 2.3 | 166.0 | 25 | 1 |
|  | Type2 | 20 | 3.7 | 150.0 | 27 | 1 |
|  | Type2 | 21 | 2.2 | 176.0 | 25 | 1 |
|  | Type2 | 22 | 4.9 | 195.0 | 29 | 1 |
|  | Type2 | 23 | 2.9 | 202.0 | 26 | 1 |
|  | Type2 | 24 | 2.5 | 178.0 | 25 | 1 |
|  | Type2 | 25 | 1.1 | 206.0 | 23 | 1 |
|  | Type2 | 26 | 3.8 | 155.0 | 27 | 1 |
|  | Type2 | 27 | 4.7 | 157.0 | 29 | 1 |
|  | Type2 | 28 | 2.4 | 224.0 | 25 | 1 |
|  | Type2 | 29 | 4.2 | 159.0 | 28 | 1 |
|  | Type3 | 0  | 8.2 | 355.0 | 17 | 1 |
|  | Type3 | 1  | 6.1 | 487.0 | 16 | 1 |
|  | Type3 | 2  | 7.1 | 344.0 | 16 | 1 |
|  | Type3 | 3  | 9.8 | 288.0 | 18 | 1 |
|  | Type3 | 4  | 8.9 | 230.0 | 18 | 0 |
|  | Type3 | 5  | 7.9 | 432.0 | 17 | 1 |
|  | Type3 | 6  | 8.2 | 207.0 | 17 | 0 |
|  | Type3 | 7  | 7.5 | 443.0 | 17 | 1 |
|  | Type3 | 8  | 8.1 | 439.0 | 17 | 1 |
|  | Type3 | 9  | 6.2 | 223.0 | 16 | 1 |
|  | Type3 | 10 | 8.9 | 208.0 | 18 | 1 |
|  | Type3 | 11 | 9.6 | 463.0 | 18 | 1 |
|  | Type3 | 12 | 8.2 | 441.0 | 17 | 1 |
|  | Type3 | 13 | 7.2 | 323.0 | 16 | 1 |
|  | Type3 | 14 | 9.5 | 297.0 | 18 | 1 |
|  | Type3 | 15 | 8.0 | 412.0 | 17 | 1 |

|  |       |    |      |       |    |   |
|--|-------|----|------|-------|----|---|
|  | Type3 | 16 | 10.0 | 324.0 | 18 | 1 |
|  | Type3 | 17 | 7.4  | 271.0 | 17 | 1 |
|  | Type3 | 18 | 7.9  | 349.0 | 17 | 1 |
|  | Type3 | 19 | 7.3  | 409.0 | 16 | 1 |
|  | Type3 | 20 | 8.7  | 373.0 | 18 | 1 |
|  | Type3 | 21 | 7.2  | 254.0 | 16 | 1 |
|  | Type3 | 22 | 9.9  | 274.0 | 18 | 1 |
|  | Type3 | 23 | 7.9  | 278.0 | 17 | 1 |
|  | Type3 | 24 | 7.5  | 317.0 | 17 | 1 |
|  | Type3 | 25 | 6.1  | 260.0 | 16 | 1 |
|  | Type3 | 26 | 8.8  | 211.0 | 18 | 0 |
|  | Type3 | 27 | 9.7  | 272.0 | 18 | 1 |
|  | Type3 | 28 | 7.4  | 264.0 | 17 | 1 |
|  | Type3 | 29 | 9.2  | 284.0 | 18 | 1 |
|  | Type4 | 0  | 16.0 | 355.0 | 14 | 1 |
|  | Type4 | 1  | 11.3 | 487.0 | 12 | 1 |
|  | Type4 | 2  | 13.5 | 344.0 | 13 | 1 |
|  | Type4 | 3  | 19.4 | 288.0 | 16 | 1 |
|  | Type4 | 4  | 17.5 | 230.0 | 15 | 1 |
|  | Type4 | 5  | 15.3 | 432.0 | 14 | 1 |
|  | Type4 | 6  | 15.9 | 207.0 | 14 | 0 |
|  | Type4 | 7  | 14.3 | 443.0 | 13 | 1 |
|  | Type4 | 8  | 15.8 | 439.0 | 14 | 1 |
|  | Type4 | 9  | 11.5 | 223.0 | 12 | 0 |
|  | Type4 | 10 | 17.4 | 208.0 | 15 | 0 |
|  | Type4 | 11 | 19.0 | 463.0 | 16 | 1 |
|  | Type4 | 12 | 16.0 | 441.0 | 14 | 1 |
|  | Type4 | 13 | 13.8 | 323.0 | 13 | 1 |
|  | Type4 | 14 | 18.9 | 297.0 | 16 | 1 |
|  | Type4 | 15 | 15.5 | 412.0 | 14 | 1 |
|  | Type4 | 16 | 19.9 | 324.0 | 16 | 1 |
|  | Type4 | 17 | 14.1 | 271.0 | 13 | 1 |
|  | Type4 | 18 | 15.2 | 349.0 | 14 | 1 |
|  | Type4 | 19 | 13.8 | 409.0 | 13 | 1 |
|  | Type4 | 20 | 17.1 | 373.0 | 15 | 1 |
|  | Type4 | 21 | 13.8 | 254.0 | 13 | 1 |
|  | Type4 | 22 | 19.8 | 274.0 | 16 | 1 |
|  | Type4 | 23 | 15.3 | 278.0 | 14 | 1 |
|  | Type4 | 24 | 14.5 | 317.0 | 13 | 1 |
|  | Type4 | 25 | 11.3 | 260.0 | 12 | 0 |
|  | Type4 | 26 | 17.3 | 211.0 | 15 | 1 |
|  | Type4 | 27 | 19.2 | 272.0 | 16 | 1 |
|  | Type4 | 28 | 14.2 | 264.0 | 13 | 1 |

|                |      |       |    |      |        |    |   |
|----------------|------|-------|----|------|--------|----|---|
|                |      | Type4 | 29 | 18.2 | 284.0  | 15 | 1 |
| 11AC80M<br>IMO | 5290 | Type0 | 0  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 1  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 2  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 3  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 4  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 5  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 6  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 7  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 8  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 9  | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 10 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 11 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 12 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 13 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 14 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 15 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 16 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 17 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 18 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 19 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 20 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 21 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 22 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 23 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 24 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 25 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 26 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 27 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 28 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type0 | 29 | 1.0  | 1428.0 | 18 | 1 |
|                |      | Type1 | 0  | 1.0  | 938.0  | 57 | 1 |
|                |      | Type1 | 1  | 1.0  | 698.0  | 76 | 1 |
|                |      | Type1 | 2  | 1.0  | 618.0  | 86 | 1 |
|                |      | Type1 | 3  | 1.0  | 538.0  | 99 | 1 |
|                |      | Type1 | 4  | 1.0  | 878.0  | 61 | 1 |
|                |      | Type1 | 5  | 1.0  | 3066.0 | 18 | 1 |
|                |      | Type1 | 6  | 1.0  | 638.0  | 83 | 1 |
|                |      | Type1 | 7  | 1.0  | 918.0  | 58 | 1 |
|                |      | Type1 | 8  | 1.0  | 838.0  | 63 | 1 |
|                |      | Type1 | 9  | 1.0  | 858.0  | 62 | 1 |
|                |      | Type1 | 10 | 1.0  | 798.0  | 67 | 1 |
|                |      | Type1 | 11 | 1.0  | 718.0  | 74 | 1 |

|  |       |    |     |        |    |   |
|--|-------|----|-----|--------|----|---|
|  | Type1 | 12 | 1.0 | 578.0  | 92 | 1 |
|  | Type1 | 13 | 1.0 | 598.0  | 89 | 1 |
|  | Type1 | 14 | 1.0 | 558.0  | 95 | 1 |
|  | Type1 | 15 | 1.0 | 2536.0 | 21 | 1 |
|  | Type1 | 16 | 1.0 | 966.0  | 55 | 1 |
|  | Type1 | 17 | 1.0 | 827.0  | 64 | 1 |
|  | Type1 | 18 | 1.0 | 2501.0 | 22 | 1 |
|  | Type1 | 19 | 1.0 | 2595.0 | 21 | 1 |
|  | Type1 | 20 | 1.0 | 1114.0 | 48 | 1 |
|  | Type1 | 21 | 1.0 | 1302.0 | 41 | 1 |
|  | Type1 | 22 | 1.0 | 3045.0 | 18 | 1 |
|  | Type1 | 23 | 1.0 | 1624.0 | 33 | 1 |
|  | Type1 | 24 | 1.0 | 2878.0 | 19 | 1 |
|  | Type1 | 25 | 1.0 | 1027.0 | 52 | 1 |
|  | Type1 | 26 | 1.0 | 2485.0 | 22 | 1 |
|  | Type1 | 27 | 1.0 | 1600.0 | 33 | 1 |
|  | Type1 | 28 | 1.0 | 1172.0 | 46 | 1 |
|  | Type1 | 29 | 1.0 | 1177.0 | 45 | 1 |
|  | Type2 | 0  | 3.2 | 179.0  | 26 | 1 |
|  | Type2 | 1  | 1.1 | 207.0  | 23 | 1 |
|  | Type2 | 2  | 2.1 | 230.0  | 24 | 1 |
|  | Type2 | 3  | 4.8 | 200.0  | 29 | 1 |
|  | Type2 | 4  | 3.9 | 214.0  | 28 | 1 |
|  | Type2 | 5  | 2.9 | 222.0  | 26 | 1 |
|  | Type2 | 6  | 3.2 | 204.0  | 26 | 1 |
|  | Type2 | 7  | 2.5 | 192.0  | 25 | 1 |
|  | Type2 | 8  | 3.1 | 164.0  | 26 | 1 |
|  | Type2 | 9  | 1.2 | 156.0  | 23 | 1 |
|  | Type2 | 10 | 3.9 | 210.0  | 27 | 1 |
|  | Type2 | 11 | 4.6 | 201.0  | 29 | 1 |
|  | Type2 | 12 | 3.2 | 162.0  | 26 | 1 |
|  | Type2 | 13 | 2.2 | 197.0  | 25 | 1 |
|  | Type2 | 14 | 4.5 | 163.0  | 29 | 1 |
|  | Type2 | 15 | 3.0 | 203.0  | 26 | 1 |
|  | Type2 | 16 | 5.0 | 168.0  | 29 | 1 |
|  | Type2 | 17 | 2.4 | 217.0  | 25 | 1 |
|  | Type2 | 18 | 2.9 | 191.0  | 26 | 1 |
|  | Type2 | 19 | 2.3 | 166.0  | 25 | 1 |
|  | Type2 | 20 | 3.7 | 150.0  | 27 | 1 |
|  | Type2 | 21 | 2.2 | 176.0  | 25 | 1 |
|  | Type2 | 22 | 4.9 | 195.0  | 29 | 1 |
|  | Type2 | 23 | 2.9 | 202.0  | 26 | 1 |
|  | Type2 | 24 | 2.5 | 178.0  | 25 | 1 |

|  |       |    |      |       |    |   |
|--|-------|----|------|-------|----|---|
|  | Type2 | 25 | 1.1  | 206.0 | 23 | 1 |
|  | Type2 | 26 | 3.8  | 155.0 | 27 | 1 |
|  | Type2 | 27 | 4.7  | 157.0 | 29 | 1 |
|  | Type2 | 28 | 2.4  | 224.0 | 25 | 1 |
|  | Type2 | 29 | 4.2  | 159.0 | 28 | 1 |
|  | Type3 | 0  | 8.2  | 355.0 | 17 | 1 |
|  | Type3 | 1  | 6.1  | 487.0 | 16 | 1 |
|  | Type3 | 2  | 7.1  | 344.0 | 16 | 1 |
|  | Type3 | 3  | 9.8  | 288.0 | 18 | 0 |
|  | Type3 | 4  | 8.9  | 230.0 | 18 | 1 |
|  | Type3 | 5  | 7.9  | 432.0 | 17 | 1 |
|  | Type3 | 6  | 8.2  | 207.0 | 17 | 1 |
|  | Type3 | 7  | 7.5  | 443.0 | 17 | 1 |
|  | Type3 | 8  | 8.1  | 439.0 | 17 | 1 |
|  | Type3 | 9  | 6.2  | 223.0 | 16 | 1 |
|  | Type3 | 10 | 8.9  | 208.0 | 18 | 1 |
|  | Type3 | 11 | 9.6  | 463.0 | 18 | 1 |
|  | Type3 | 12 | 8.2  | 441.0 | 17 | 1 |
|  | Type3 | 13 | 7.2  | 323.0 | 16 | 1 |
|  | Type3 | 14 | 9.5  | 297.0 | 18 | 1 |
|  | Type3 | 15 | 8.0  | 412.0 | 17 | 1 |
|  | Type3 | 16 | 10.0 | 324.0 | 18 | 1 |
|  | Type3 | 17 | 7.4  | 271.0 | 17 | 1 |
|  | Type3 | 18 | 7.9  | 349.0 | 17 | 1 |
|  | Type3 | 19 | 7.3  | 409.0 | 16 | 1 |
|  | Type3 | 20 | 8.7  | 373.0 | 18 | 0 |
|  | Type3 | 21 | 7.2  | 254.0 | 16 | 0 |
|  | Type3 | 22 | 9.9  | 274.0 | 18 | 1 |
|  | Type3 | 23 | 7.9  | 278.0 | 17 | 1 |
|  | Type3 | 24 | 7.5  | 317.0 | 17 | 1 |
|  | Type3 | 25 | 6.1  | 260.0 | 16 | 1 |
|  | Type3 | 26 | 8.8  | 211.0 | 18 | 1 |
|  | Type3 | 27 | 9.7  | 272.0 | 18 | 1 |
|  | Type3 | 28 | 7.4  | 264.0 | 17 | 1 |
|  | Type3 | 29 | 9.2  | 284.0 | 18 | 1 |
|  | Type4 | 0  | 16.0 | 355.0 | 14 | 1 |
|  | Type4 | 1  | 11.3 | 487.0 | 12 | 1 |
|  | Type4 | 2  | 13.5 | 344.0 | 13 | 1 |
|  | Type4 | 3  | 19.4 | 288.0 | 16 | 1 |
|  | Type4 | 4  | 17.5 | 230.0 | 15 | 1 |
|  | Type4 | 5  | 15.3 | 432.0 | 14 | 1 |
|  | Type4 | 6  | 15.9 | 207.0 | 14 | 1 |
|  | Type4 | 7  | 14.3 | 443.0 | 13 | 1 |

|  |       |    |      |       |    |   |
|--|-------|----|------|-------|----|---|
|  | Type4 | 8  | 15.8 | 439.0 | 14 | 1 |
|  | Type4 | 9  | 11.5 | 223.0 | 12 | 1 |
|  | Type4 | 10 | 17.4 | 208.0 | 15 | 1 |
|  | Type4 | 11 | 19.0 | 463.0 | 16 | 1 |
|  | Type4 | 12 | 16.0 | 441.0 | 14 | 1 |
|  | Type4 | 13 | 13.8 | 323.0 | 13 | 1 |
|  | Type4 | 14 | 18.9 | 297.0 | 16 | 1 |
|  | Type4 | 15 | 15.5 | 412.0 | 14 | 1 |
|  | Type4 | 16 | 19.9 | 324.0 | 16 | 1 |
|  | Type4 | 17 | 14.1 | 271.0 | 13 | 1 |
|  | Type4 | 18 | 15.2 | 349.0 | 14 | 1 |
|  | Type4 | 19 | 13.8 | 409.0 | 13 | 1 |
|  | Type4 | 20 | 17.1 | 373.0 | 15 | 1 |
|  | Type4 | 21 | 13.8 | 254.0 | 13 | 1 |
|  | Type4 | 22 | 19.8 | 274.0 | 16 | 1 |
|  | Type4 | 23 | 15.3 | 278.0 | 14 | 1 |
|  | Type4 | 24 | 14.5 | 317.0 | 13 | 1 |
|  | Type4 | 25 | 11.3 | 260.0 | 12 | 1 |
|  | Type4 | 26 | 17.3 | 211.0 | 15 | 1 |
|  | Type4 | 27 | 19.2 | 272.0 | 16 | 1 |
|  | Type4 | 28 | 14.2 | 264.0 | 13 | 1 |
|  | Type4 | 29 | 18.2 | 284.0 | 15 | 1 |

|         |      |       |    |     |        |    |   |
|---------|------|-------|----|-----|--------|----|---|
| 11AC160 | 5250 | Type0 | 0  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 1  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 2  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 3  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 4  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 5  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 6  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 7  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 8  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 9  | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 10 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 11 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 12 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 13 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 14 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 15 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 16 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 17 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 18 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 19 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 20 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 21 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 22 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 23 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 24 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 25 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 26 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 27 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 28 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type0 | 29 | 1.0 | 1428.0 | 18 | 1 |
|         |      | Type1 | 0  | 1.0 | 938.0  | 57 | 1 |
|         |      | Type1 | 1  | 1.0 | 698.0  | 76 | 1 |
|         |      | Type1 | 2  | 1.0 | 618.0  | 86 | 1 |
|         |      | Type1 | 3  | 1.0 | 538.0  | 99 | 1 |
|         |      | Type1 | 4  | 1.0 | 878.0  | 61 | 1 |
|         |      | Type1 | 5  | 1.0 | 3066.0 | 18 | 1 |
|         |      | Type1 | 6  | 1.0 | 638.0  | 83 | 1 |
|         |      | Type1 | 7  | 1.0 | 918.0  | 58 | 1 |
|         |      | Type1 | 8  | 1.0 | 838.0  | 63 | 1 |
|         |      | Type1 | 9  | 1.0 | 858.0  | 62 | 1 |
|         |      | Type1 | 10 | 1.0 | 798.0  | 67 | 1 |
|         |      | Type1 | 11 | 1.0 | 718.0  | 74 | 1 |
|         |      | Type1 | 12 | 1.0 | 578.0  | 92 | 1 |

|  |       |    |     |        |    |   |
|--|-------|----|-----|--------|----|---|
|  | Type1 | 13 | 1.0 | 598.0  | 89 | 1 |
|  | Type1 | 14 | 1.0 | 558.0  | 95 | 1 |
|  | Type1 | 15 | 1.0 | 2536.0 | 21 | 1 |
|  | Type1 | 16 | 1.0 | 966.0  | 55 | 1 |
|  | Type1 | 17 | 1.0 | 827.0  | 64 | 1 |
|  | Type1 | 18 | 1.0 | 2501.0 | 22 | 1 |
|  | Type1 | 19 | 1.0 | 2595.0 | 21 | 1 |
|  | Type1 | 20 | 1.0 | 1114.0 | 48 | 1 |
|  | Type1 | 21 | 1.0 | 1302.0 | 41 | 1 |
|  | Type1 | 22 | 1.0 | 3045.0 | 18 | 1 |
|  | Type1 | 23 | 1.0 | 1624.0 | 33 | 1 |
|  | Type1 | 24 | 1.0 | 2878.0 | 19 | 1 |
|  | Type1 | 25 | 1.0 | 1027.0 | 52 | 1 |
|  | Type1 | 26 | 1.0 | 2485.0 | 22 | 1 |
|  | Type1 | 27 | 1.0 | 1600.0 | 33 | 1 |
|  | Type1 | 28 | 1.0 | 1172.0 | 46 | 1 |
|  | Type1 | 29 | 1.0 | 1177.0 | 45 | 1 |
|  | Type2 | 0  | 3.2 | 179.0  | 26 | 1 |
|  | Type2 | 1  | 1.1 | 207.0  | 23 | 1 |
|  | Type2 | 2  | 2.1 | 230.0  | 24 | 1 |
|  | Type2 | 3  | 4.8 | 200.0  | 29 | 1 |
|  | Type2 | 4  | 3.9 | 214.0  | 28 | 1 |
|  | Type2 | 5  | 2.9 | 222.0  | 26 | 1 |
|  | Type2 | 6  | 3.2 | 204.0  | 26 | 1 |
|  | Type2 | 7  | 2.5 | 192.0  | 25 | 1 |
|  | Type2 | 8  | 3.1 | 164.0  | 26 | 1 |
|  | Type2 | 9  | 1.2 | 156.0  | 23 | 1 |
|  | Type2 | 10 | 3.9 | 210.0  | 27 | 1 |
|  | Type2 | 11 | 4.6 | 201.0  | 29 | 1 |
|  | Type2 | 12 | 3.2 | 162.0  | 26 | 1 |
|  | Type2 | 13 | 2.2 | 197.0  | 25 | 1 |
|  | Type2 | 14 | 4.5 | 163.0  | 29 | 1 |
|  | Type2 | 15 | 3.0 | 203.0  | 26 | 1 |
|  | Type2 | 16 | 5.0 | 168.0  | 29 | 1 |
|  | Type2 | 17 | 2.4 | 217.0  | 25 | 1 |
|  | Type2 | 18 | 2.9 | 191.0  | 26 | 1 |
|  | Type2 | 19 | 2.3 | 166.0  | 25 | 1 |
|  | Type2 | 20 | 3.7 | 150.0  | 27 | 1 |
|  | Type2 | 21 | 2.2 | 176.0  | 25 | 1 |
|  | Type2 | 22 | 4.9 | 195.0  | 29 | 1 |
|  | Type2 | 23 | 2.9 | 202.0  | 26 | 1 |
|  | Type2 | 24 | 2.5 | 178.0  | 25 | 1 |
|  | Type2 | 25 | 1.1 | 206.0  | 23 | 1 |

|       |    |      |       |    |   |
|-------|----|------|-------|----|---|
| Type2 | 26 | 3.8  | 155.0 | 27 | 1 |
| Type2 | 27 | 4.7  | 157.0 | 29 | 1 |
| Type2 | 28 | 2.4  | 224.0 | 25 | 1 |
| Type2 | 29 | 4.2  | 159.0 | 28 | 1 |
| Type3 | 0  | 8.2  | 355.0 | 17 | 1 |
| Type3 | 1  | 6.1  | 487.0 | 16 | 1 |
| Type3 | 2  | 7.1  | 344.0 | 16 | 1 |
| Type3 | 3  | 9.8  | 288.0 | 18 | 1 |
| Type3 | 4  | 8.9  | 230.0 | 18 | 0 |
| Type3 | 5  | 7.9  | 432.0 | 17 | 1 |
| Type3 | 6  | 8.2  | 207.0 | 17 | 0 |
| Type3 | 7  | 7.5  | 443.0 | 17 | 1 |
| Type3 | 8  | 8.1  | 439.0 | 17 | 1 |
| Type3 | 9  | 6.2  | 223.0 | 16 | 1 |
| Type3 | 10 | 8.9  | 208.0 | 18 | 1 |
| Type3 | 11 | 9.6  | 463.0 | 18 | 1 |
| Type3 | 12 | 8.2  | 441.0 | 17 | 1 |
| Type3 | 13 | 7.2  | 323.0 | 16 | 1 |
| Type3 | 14 | 9.5  | 297.0 | 18 | 1 |
| Type3 | 15 | 8.0  | 412.0 | 17 | 1 |
| Type3 | 16 | 10.0 | 324.0 | 18 | 1 |
| Type3 | 17 | 7.4  | 271.0 | 17 | 1 |
| Type3 | 18 | 7.9  | 349.0 | 17 | 1 |
| Type3 | 19 | 7.3  | 409.0 | 16 | 1 |
| Type3 | 20 | 8.7  | 373.0 | 18 | 1 |
| Type3 | 21 | 7.2  | 254.0 | 16 | 1 |
| Type3 | 22 | 9.9  | 274.0 | 18 | 1 |
| Type3 | 23 | 7.9  | 278.0 | 17 | 1 |
| Type3 | 24 | 7.5  | 317.0 | 17 | 1 |
| Type3 | 25 | 6.1  | 260.0 | 16 | 1 |
| Type3 | 26 | 8.8  | 211.0 | 18 | 0 |
| Type3 | 27 | 9.7  | 272.0 | 18 | 1 |
| Type3 | 28 | 7.4  | 264.0 | 17 | 1 |
| Type3 | 29 | 9.2  | 284.0 | 18 | 1 |
| Type4 | 0  | 16.0 | 355.0 | 14 | 1 |
| Type4 | 1  | 11.3 | 487.0 | 12 | 1 |
| Type4 | 2  | 13.5 | 344.0 | 13 | 1 |
| Type4 | 3  | 19.4 | 288.0 | 16 | 1 |
| Type4 | 4  | 17.5 | 230.0 | 15 | 1 |
| Type4 | 5  | 15.3 | 432.0 | 14 | 1 |
| Type4 | 6  | 15.9 | 207.0 | 14 | 1 |
| Type4 | 7  | 14.3 | 443.0 | 13 | 1 |
| Type4 | 8  | 15.8 | 439.0 | 14 | 1 |

|  |       |    |      |       |    |   |
|--|-------|----|------|-------|----|---|
|  | Type4 | 9  | 11.5 | 223.0 | 12 | 1 |
|  | Type4 | 10 | 17.4 | 208.0 | 15 | 1 |
|  | Type4 | 11 | 19.0 | 463.0 | 16 | 1 |
|  | Type4 | 12 | 16.0 | 441.0 | 14 | 1 |
|  | Type4 | 13 | 13.8 | 323.0 | 13 | 1 |
|  | Type4 | 14 | 18.9 | 297.0 | 16 | 1 |
|  | Type4 | 15 | 15.5 | 412.0 | 14 | 1 |
|  | Type4 | 16 | 19.9 | 324.0 | 16 | 1 |
|  | Type4 | 17 | 14.1 | 271.0 | 13 | 1 |
|  | Type4 | 18 | 15.2 | 349.0 | 14 | 1 |
|  | Type4 | 19 | 13.8 | 409.0 | 13 | 1 |
|  | Type4 | 20 | 17.1 | 373.0 | 15 | 1 |
|  | Type4 | 21 | 13.8 | 254.0 | 13 | 1 |
|  | Type4 | 22 | 19.8 | 274.0 | 16 | 1 |
|  | Type4 | 23 | 15.3 | 278.0 | 14 | 1 |
|  | Type4 | 24 | 14.5 | 317.0 | 13 | 1 |
|  | Type4 | 25 | 11.3 | 260.0 | 12 | 1 |
|  | Type4 | 26 | 17.3 | 211.0 | 15 | 1 |
|  | Type4 | 27 | 19.2 | 272.0 | 16 | 1 |
|  | Type4 | 28 | 14.2 | 264.0 | 13 | 1 |
|  | Type4 | 29 | 18.2 | 284.0 | 15 | 1 |

11A-5260MHz:

Radar Type 5 Case1 Statistical Performance

Statistics 0 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 636185.0         | 77.8             | 13          | 2                          | 1665.0     | 1477.0     | -          | 1                      |
| 1       | 32674.0          | 51.9             | 13          | 1                          | 1074.0     | -          | -          |                        |
| 2       | 226294.0         | 63.8             | 13          | 1                          | 1584.0     | -          | -          |                        |
| 3       | 417976.0         | 96.6             | 13          | 3                          | 1682.0     | 1786.0     | 1843.0     |                        |
| 4       | 611152.0         | 85.9             | 13          | 3                          | 1795.0     | 1215.0     | 1729.0     |                        |
| 5       | 8789.0           | 73.7             | 13          | 2                          | 1198.0     | 1549.0     | -          |                        |
| 6       | 201917.0         | 77.2             | 13          | 2                          | 1837.0     | 1819.0     | -          |                        |
| 7       | 395530.0         | 68.4             | 13          | 2                          | 1587.0     | 1114.0     | -          |                        |
| 8       | 588564.0         | 76.7             | 13          | 2                          | 2000.0     | 1155.0     | -          |                        |
| 9       | 783794.0         | 53.2             | 13          | 1                          | 1147.0     | -          | -          |                        |
| 10      | 177933.0         | 85.7             | 13          | 3                          | 1433.0     | 1695.0     | 1394.0     |                        |
| 11      | 370624.0         | 94.3             | 13          | 3                          | 1670.0     | 1426.0     | 1935.0     |                        |
| 12      | 564893.0         | 77.6             | 13          | 2                          | 1294.0     | 1671.0     | -          |                        |
| 13      | 759583.0         | 65.7             | 13          | 1                          | 1512.0     | -          | -          |                        |
| 14      | 154262.0         | 93.5             | 13          | 3                          | 1444.0     | 1130.0     | 1468.0     |                        |

Statistics 1 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 653020.0         | 75.0             | 5           | 2                          | 1880.0     | 1527.0     | -          | 1                      |
| 1       | 1015643.0        | 99.4             | 5           | 3                          | 1401.0     | 1262.0     | 1257.0     |                        |
| 2       | 1379398.0        | 67.4             | 5           | 2                          | 1531.0     | 1403.0     | -          |                        |
| 3       | 245489.0         | 73.6             | 5           | 2                          | 1449.0     | 1041.0     | -          |                        |
| 4       | 609113.0         | 65.9             | 5           | 1                          | 1432.0     | -          | -          |                        |
| 5       | 970852.0         | 83.8             | 5           | 3                          | 1356.0     | 1292.0     | 1419.0     |                        |
| 6       | 1335913.0        | 65.5             | 5           | 1                          | 1543.0     | -          | -          |                        |
| 7       | 200406.0         | 98.6             | 5           | 3                          | 1548.0     | 1796.0     | 1728.0     |                        |

Statistics 2 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 409565.0         | 73.8             | 9           | 2                          | 1806.0     | 1538.0     | -          | 1                      |
| 1       | 673692.0         | 69.5             | 9           | 2                          | 1117.0     | 1649.0     | -          |                        |
| 2       | 938562.0         | 51.9             | 9           | 1                          | 1651.0     | -          | -          |                        |
| 3       | 113209.0         | 84.6             | 9           | 3                          | 1976.0     | 1032.0     | 1271.0     |                        |
| 4       | 376726.0         | 95.4             | 9           | 3                          | 1060.0     | 1903.0     | 1388.0     |                        |
| 5       | 641212.0         | 68.0             | 9           | 2                          | 1368.0     | 1351.0     | -          |                        |
| 6       | 903714.0         | 89.6             | 9           | 3                          | 1338.0     | 1514.0     | 1573.0     |                        |
| 7       | 80863.0          | 81.9             | 9           | 2                          | 1022.0     | 1689.0     | -          |                        |
| 8       | 344067.0         | 88.3             | 9           | 3                          | 1810.0     | 1330.0     | 1838.0     |                        |
| 9       | 609331.0         | 53.7             | 9           | 1                          | 1597.0     | -          | -          |                        |
| 10      | 871542.0         | 91.3             | 9           | 3                          | 1961.0     | 1106.0     | 1001.0     |                        |

Statistics 3 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 26541.0          | 68.1             | 19          | 2                          | 1339.0     | 1355.0     | -          | 1                      |
| 1       | 171821.0         | 58.7             | 19          | 1                          | 1251.0     | -          | -          |                        |
| 2       | 316229.0         | 75.3             | 19          | 2                          | 1136.0     | 1640.0     | -          |                        |
| 3       | 461864.0         | 56.4             | 19          | 1                          | 1753.0     | -          | -          |                        |
| 4       | 8677.0           | 99.7             | 19          | 3                          | 1196.0     | 1708.0     | 1159.0     |                        |
| 5       | 153995.0         | 57.7             | 19          | 1                          | 1013.0     | -          | -          |                        |
| 6       | 299238.0         | 59.5             | 19          | 1                          | 1072.0     | -          | -          |                        |
| 7       | 443177.0         | 80.0             | 19          | 2                          | 1482.0     | 1369.0     | -          |                        |
| 8       | 587671.0         | 82.0             | 19          | 2                          | 1993.0     | 1197.0     | -          |                        |
| 9       | 135674.0         | 82.8             | 19          | 2                          | 1883.0     | 1005.0     | -          |                        |
| 10      | 279928.0         | 88.0             | 19          | 3                          | 1061.0     | 1928.0     | 1101.0     |                        |
| 11      | 424279.0         | 93.2             | 19          | 3                          | 1207.0     | 1907.0     | 1223.0     |                        |
| 12      | 570132.0         | 70.4             | 19          | 2                          | 1526.0     | 1360.0     | -          |                        |
| 13      | 117439.0         | 95.3             | 19          | 3                          | 1171.0     | 1955.0     | 1775.0     |                        |
| 14      |                  |                  |             |                            |            |            |            |                        |
| 15      | 262502.0         | 81.9             | 19          | 2                          | 1690.0     | 1545.0     | -          |                        |
| 16      | 406573.0         | 98.5             | 19          | 3                          | 1975.0     | 1169.0     | 1062.0     |                        |
| 17      | 553328.0         | 65.0             | 19          | 1                          | 1767.0     | -          | -          |                        |
| 18      | 99799.0          | 85.4             | 19          | 3                          | 1011.0     | 1637.0     | 1425.0     |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 19 | 244095.0 | 91.6 | 19 | 3 | 1878.0 | 1445.0 | 1325.0 |  |
|----|----------|------|----|---|--------|--------|--------|--|

Statistics 4 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 629614.0         | 67.9             | 16          | 2                          | 1320.0     | 1133.0     | -          | 1                      |
| 1       | 96856.0          | 62.3             | 16          | 1                          | 1957.0     | -          | -          |                        |
| 2       | 267719.0         | 53.3             | 16          | 1                          | 1592.0     | -          | -          |                        |
| 3       | 436784.0         | 90.0             | 16          | 3                          | 1900.0     | 1153.0     | 1346.0     |                        |
| 4       | 608289.0         | 77.1             | 16          | 2                          | 1166.0     | 1646.0     | -          |                        |
| 5       | 75610.0          | 83.9             | 16          | 3                          | 1278.0     | 1232.0     | 1459.0     |                        |
| 6       | 245638.0         | 89.1             | 16          | 3                          | 1240.0     | 1384.0     | 1939.0     |                        |
| 7       | 416355.0         | 81.8             | 16          | 2                          | 1833.0     | 1676.0     | -          |                        |
| 8       | 588736.0         | 50.3             | 16          | 1                          | 1075.0     | -          | -          |                        |
| 9       | 54571.0          | 87.1             | 16          | 3                          | 1116.0     | 1996.0     | 1756.0     |                        |
| 10      | 225175.0         | 71.3             | 16          | 2                          | 1225.0     | 1815.0     | -          |                        |
| 11      | 394825.0         | 97.5             | 16          | 3                          | 1884.0     | 1465.0     | 1132.0     |                        |
| 12      | 565361.0         | 90.6             | 16          | 3                          | 1561.0     | 1040.0     | 1354.0     |                        |
| 13      | 33643.0          | 86.3             | 16          | 3                          | 1596.0     | 1183.0     | 1792.0     |                        |
| 14      | 203957.0         | 97.6             | 16          | 3                          | 1365.0     | 1073.0     | 1361.0     |                        |
| 15      | 373812.0         | 84.7             | 16          | 3                          | 1021.0     | 1718.0     | 1854.0     |                        |
| 16      | 544060.0         | 99.7             | 16          | 3                          | 1150.0     | 1244.0     | 1988.0     |                        |

Statistics 5 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 15438.0          | 92.9             | 12          | 3                          | 1085.0     | 1564.0     | 1407.0     | 1                      |
| 1       | 222486.0         | 67.7             | 12          | 2                          | 1744.0     | 1747.0     | -          |                        |
| 2       | 430731.0         | 65.8             | 12          | 1                          | 1092.0     | -          | -          |                        |
| 3       | 637784.0         | 56.3             | 12          | 1                          | 1851.0     | -          | -          |                        |
| 4       | 845342.0         | 53.7             | 12          | 1                          | 1727.0     | -          | -          |                        |
| 5       | 196720.0         | 83.5             | 12          | 3                          | 1679.0     | 1930.0     | 1025.0     |                        |
| 6       | 404955.0         | 65.8             | 12          | 1                          | 1519.0     | -          | -          |                        |
| 7       | 610711.0         | 85.9             | 12          | 3                          | 1134.0     | 1034.0     | 1808.0     |                        |
| 8       | 818057.0         | 76.3             | 12          | 2                          | 1606.0     | 1926.0     | -          |                        |
| 9       | 171459.0         | 81.5             | 12          | 2                          | 1891.0     | 1714.0     | -          |                        |
| 10      | 377969.0         | 89.4             | 12          | 3                          | 1310.0     | 1594.0     | 1827.0     |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 11 | 586875.0 | 63.4 | 12 | 1 | 1568.0 | -      | - |  |
| 12 | 792834.0 | 69.6 | 12 | 2 | 1307.0 | 1925.0 | - |  |
| 13 | 146044.0 | 74.5 | 12 | 2 | 1264.0 | 1846.0 | - |  |

Statistics 6 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 329022.0         | 96.6             | 13          | 3                          | 1182.0     | 1609.0     | 1581.0     | 1                      |
| 1       | 521718.0         | 96.7             | 13          | 3                          | 1829.0     | 1799.0     | 1154.0     |                        |
| 2       | 714222.0         | 86.5             | 13          | 3                          | 1923.0     | 1396.0     | 1865.0     |                        |
| 3       | 112450.0         | 73.3             | 13          | 2                          | 1908.0     | 1318.0     | -          |                        |
| 4       | 306283.0         | 55.8             | 13          | 1                          | 1688.0     | -          | -          |                        |
| 5       | 500239.0         | 55.4             | 13          | 1                          | 1145.0     | -          | -          |                        |
| 6       | 690932.0         | 85.3             | 13          | 3                          | 1336.0     | 1504.0     | 1820.0     |                        |
| 7       | 88645.0          | 79.4             | 13          | 2                          | 1344.0     | 1893.0     | -          |                        |
| 8       | 282508.0         | 65.7             | 13          | 1                          | 1476.0     | -          | -          |                        |
| 9       | 475842.0         | 68.6             | 13          | 2                          | 1008.0     | 1028.0     | -          |                        |
| 10      | 667887.0         | 77.7             | 13          | 2                          | 1972.0     | 1835.0     | -          |                        |
| 11      | 64845.0          | 79.6             | 13          | 2                          | 1882.0     | 1331.0     | -          |                        |
| 12      | 257755.0         | 94.9             | 13          | 3                          | 1830.0     | 1070.0     | 1349.0     |                        |
| 13      | 452335.0         | 61.4             | 13          | 1                          | 1451.0     | -          | -          |                        |
| 14      | 643395.0         | 90.6             | 13          | 3                          | 1233.0     | 1562.0     | 1887.0     |                        |
| 15      | 329022.0         | 96.6             | 13          | 3                          | 1182.0     | 1609.0     | 1581.0     |                        |

Statistics 7 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 51446.0          | 52.6             | 10          | 1                          | 1210.0     | -          | -          | 1                      |
| 1       | 292696.0         | 84.1             | 10          | 3                          | 1314.0     | 1725.0     | 1529.0     |                        |
| 2       | 533989.0         | 97.7             | 10          | 3                          | 1139.0     | 1868.0     | 1805.0     |                        |
| 3       | 775564.0         | 97.3             | 10          | 3                          | 1341.0     | 1446.0     | 1755.0     |                        |
| 4       | 21542.0          | 98.8             | 10          | 3                          | 1544.0     | 1386.0     | 1302.0     |                        |
| 5       | 263385.0         | 72.2             | 10          | 2                          | 1771.0     | 1184.0     | -          |                        |
| 6       | 505581.0         | 67.6             | 10          | 2                          | 1175.0     | 1027.0     | -          |                        |
| 7       | 747058.0         | 75.7             | 10          | 2                          | 1026.0     | 1871.0     | -          |                        |
| 8       | 989976.0         | 60.9             | 10          | 1                          | 1798.0     | -          | -          |                        |
| 9       | 234024.0         | 64.2             | 10          | 1                          | 1138.0     | -          | -          |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 10 | 475207.0 | 78.8 | 10 | 2 | 1784.0 | 1604.0 | -      |  |
| 11 | 715825.0 | 87.5 | 10 | 3 | 1511.0 | 1712.0 | 1683.0 |  |

Statistics 8 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 823112.0         | 54.1             | 13          | 1                          | 1415.0     | -          | -          | 1                      |
| 1       | 174965.0         | 50.7             | 13          | 1                          | 1221.0     | -          | -          |                        |
| 2       | 382216.0         | 52.3             | 13          | 1                          | 1974.0     | -          | -          |                        |
| 3       | 587395.0         | 99.8             | 13          | 3                          | 1558.0     | 1696.0     | 1949.0     |                        |
| 4       | 796897.0         | 68.4             | 13          | 2                          | 1014.0     | 1099.0     | -          |                        |
| 5       | 149042.0         | 80.8             | 13          | 2                          | 1736.0     | 1505.0     | -          |                        |
| 6       | 356750.0         | 62.5             | 13          | 1                          | 1778.0     | -          | -          |                        |
| 7       | 563824.0         | 74.8             | 13          | 2                          | 1149.0     | 1204.0     | -          |                        |
| 8       | 772314.0         | 50.8             | 13          | 1                          | 1049.0     | -          | -          |                        |
| 9       | 123796.0         | 54.0             | 13          | 1                          | 1417.0     | -          | -          |                        |
| 10      | 331215.0         | 63.0             | 13          | 1                          | 1730.0     | -          | -          |                        |
| 11      | 537402.0         | 91.8             | 13          | 3                          | 1143.0     | 1270.0     | 1347.0     |                        |
| 12      | 744805.0         | 79.3             | 13          | 2                          | 1274.0     | 1992.0     | -          |                        |
| 13      | 98172.0          | 64.3             | 13          | 1                          | 1937.0     | -          | -          |                        |

Statistics 9 (ChirpCenter Frequency: 5260 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 535615.0         | 63.4             | 6           | 1                          | 1043.0     | -          | -          | 1                      |
| 1       | 898668.0         | 52.0             | 6           | 1                          | 1863.0     | -          | -          |                        |
| 2       | 1259235.0        | 97.2             | 6           | 3                          | 1973.0     | 1605.0     | 1583.0     |                        |
| 3       | 127106.0         | 78.7             | 6           | 2                          | 1466.0     | 1743.0     | -          |                        |
| 4       | 490358.0         | 74.2             | 6           | 2                          | 1280.0     | 1219.0     | -          |                        |
| 5       | 852409.0         | 88.7             | 6           | 3                          | 1293.0     | 1934.0     | 1273.0     |                        |
| 6       | 1217152.0        | 54.3             | 6           | 1                          | 1991.0     | -          | -          |                        |
| 7       | 82296.0          | 95.4             | 6           | 3                          | 1580.0     | 1555.0     | 1791.0     |                        |

## Radar Type 5 Case2 Statistical Performance

Statistics 10 (ChirpCenter Frequency: 5256.4 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 209249.0         | 73.7             | 16          | 2                          | 1208.0     | 1497.0     | -          | 1                      |
| 1       | 378386.0         | 97.4             | 16          | 3                          | 1942.0     | 1754.0     | 1613.0     |                        |
| 2       | 548411.0         | 91.7             | 16          | 3                          | 1999.0     | 1702.0     | 1462.0     |                        |
| 3       | 17733.0          | 66.2             | 16          | 1                          | 1393.0     | -          | -          |                        |
| 4       | 187952.0         | 70.8             | 16          | 2                          | 1968.0     | 1821.0     | -          |                        |
| 5       | 359277.0         | 52.3             | 16          | 1                          | 1740.0     | -          | -          |                        |
| 6       | 528886.0         | 78.9             | 16          | 2                          | 1308.0     | 1984.0     | -          |                        |
| 7       | 700166.0         | 70.9             | 16          | 2                          | 1050.0     | 1358.0     | -          |                        |
| 8       | 167197.0         | 75.6             | 16          | 2                          | 1437.0     | 1430.0     | -          |                        |
| 9       | 338262.0         | 59.1             | 16          | 1                          | 1697.0     | -          | -          |                        |
| 10      | 508324.0         | 77.0             | 16          | 2                          | 1397.0     | 1304.0     | -          |                        |
| 11      | 678689.0         | 67.9             | 16          | 2                          | 1803.0     | 1083.0     | -          |                        |
| 12      | 146031.0         | 81.2             | 16          | 2                          | 1720.0     | 1932.0     | -          |                        |
| 13      | 316923.0         | 78.7             | 16          | 2                          | 1247.0     | 1121.0     | -          |                        |
| 14      | 488056.0         | 63.3             | 16          | 1                          | 1634.0     | -          | -          |                        |
| 15      | 657326.0         | 68.9             | 16          | 2                          | 1849.0     | 1423.0     | -          |                        |
| 16      | 125509.0         | 59.3             | 16          | 1                          | 1093.0     | -          | -          |                        |

Statistics 11 (ChirpCenter Frequency: 5257.6MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 263736.0         | 98.9             | 19          | 3                          | 1381.0     | 1680.0     | 1488.0     | 1                      |
| 1       | 416459.0         | 82.3             | 19          | 2                          | 1716.0     | 1855.0     | -          |                        |
| 2       | 567902.0         | 86.7             | 19          | 3                          | 1211.0     | 1400.0     | 1919.0     |                        |
| 3       | 92979.0          | 89.7             | 19          | 3                          | 1861.0     | 1068.0     | 1282.0     |                        |
| 4       | 245155.0         | 98.6             | 19          | 3                          | 1507.0     | 1194.0     | 1461.0     |                        |
| 5       | 397609.0         | 71.1             | 19          | 2                          | 1921.0     | 1789.0     | -          |                        |
| 6       | 551431.0         | 55.9             | 19          | 1                          | 1947.0     | -          | -          |                        |
| 7       | 74413.0          | 67.9             | 19          | 2                          | 1350.0     | 1372.0     | -          |                        |
| 8       | 226559.0         | 84.4             | 19          | 3                          | 1203.0     | 1107.0     | 1443.0     |                        |
| 9       | 380056.0         | 58.8             | 19          | 1                          | 1715.0     | -          | -          |                        |
| 10      | 533408.0         | 65.6             | 19          | 1                          | 1017.0     | -          | -          |                        |
| 11      | 55547.0          | 78.5             | 19          | 2                          | 1911.0     | 1704.0     | -          |                        |
| 12      | 207876.0         | 82.3             | 19          | 2                          | 1845.0     | 1686.0     | -          |                        |
| 13      | 359771.0         | 90.1             | 19          | 3                          | 1938.0     | 1071.0     | 1266.0     |                        |
| 14      | 511297.0         | 90.2             | 19          | 3                          | 1989.0     | 1089.0     | 1950.0     |                        |
| 15      | 36803.0          | 83.1             | 19          | 2                          | 1943.0     | 1406.0     | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 16 | 189652.0 | 58.8 | 19 | 1 | 1742.0 | -      | - |  |
| 17 | 341809.0 | 77.0 | 19 | 2 | 1187.0 | 1657.0 | - |  |
| 18 | 495737.0 | 55.0 | 19 | 1 | 1012.0 | -      | - |  |

Statistics 12 (ChirpCenter Frequency: 5255.2MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 22911.0          | 58.1             | 13          | 1                          | 1929.0     | -          | -          | 1                      |
| 1       | 216473.0         | 52.1             | 13          | 1                          | 1910.0     | -          | -          |                        |
| 2       | 410004.0         | 59.9             | 13          | 1                          | 1971.0     | -          | -          |                        |
| 3       | 603671.0         | 60.2             | 13          | 1                          | 1812.0     | -          | -          |                        |
| 4       | 794160.0         | 95.9             | 13          | 3                          | 1399.0     | 1906.0     | 1608.0     |                        |
| 5       | 192251.0         | 79.9             | 13          | 2                          | 1626.0     | 1859.0     | -          |                        |
| 6       | 385590.0         | 78.5             | 13          | 2                          | 1238.0     | 1917.0     | -          |                        |
| 7       | 579862.0         | 53.8             | 13          | 1                          | 1763.0     | -          | -          |                        |
| 8       | 773423.0         | 64.7             | 13          | 1                          | 1800.0     | -          | -          |                        |
| 9       | 168898.0         | 61.4             | 13          | 1                          | 1390.0     | -          | -          |                        |
| 10      | 361606.0         | 83.2             | 13          | 2                          | 1692.0     | 1858.0     | -          |                        |
| 11      | 553866.0         | 84.7             | 13          | 3                          | 1533.0     | 1677.0     | 1638.0     |                        |
| 12      | 747241.0         | 88.7             | 13          | 3                          | 1703.0     | 1528.0     | 1058.0     |                        |
| 13      | 144710.0         | 78.3             | 13          | 2                          | 1258.0     | 1951.0     | -          |                        |
| 14      | 337856.0         | 69.3             | 13          | 2                          | 1731.0     | 1717.0     | -          |                        |

Statistics 13 (ChirpCenter Frequency: 5254MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 664275.0         | 75.3             | 10          | 2                          | 1994.0     | 1612.0     | -          | 1                      |
| 1       | 907886.0         | 56.3             | 10          | 1                          | 1456.0     | -          | -          |                        |
| 2       | 151316.0         | 67.7             | 10          | 2                          | 1617.0     | 1185.0     | -          |                        |
| 3       | 393746.0         | 55.6             | 10          | 1                          | 1337.0     | -          | -          |                        |
| 4       | 635093.0         | 75.2             | 10          | 2                          | 1421.0     | 1267.0     | -          |                        |
| 5       | 876993.0         | 76.3             | 10          | 2                          | 1359.0     | 1305.0     | -          |                        |
| 6       | 121278.0         | 85.7             | 10          | 3                          | 1547.0     | 1362.0     | 1924.0     |                        |
| 7       | 362696.0         | 98.4             | 10          | 3                          | 1873.0     | 1550.0     | 1249.0     |                        |
| 8       | 604342.0         | 86.4             | 10          | 3                          | 1779.0     | 1439.0     | 1046.0     |                        |
| 9       | 846453.0         | 93.6             | 10          | 3                          | 1059.0     | 1031.0     | 1452.0     |                        |
| 10      | 91871.0          | 63.3             | 10          | 1                          | 1328.0     | -          | -          |                        |
| 11      | 333050.0         | 92.4             | 10          | 3                          | 1412.0     | 1673.0     | 1322.0     |                        |

Statistics14 (ChirpCenter Frequency: 5257.2 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 361323.0         | 93.3             | 18          | 3                          | 1983.0     | 1912.0     | 1535.0     | 1                      |
| 1       | 515261.0         | 69.1             | 18          | 2                          | 1102.0     | 1794.0     | -          |                        |
| 2       | 39025.0          | 86.9             | 18          | 3                          | 1044.0     | 1152.0     | 1148.0     |                        |
| 3       | 190900.0         | 84.9             | 18          | 3                          | 1894.0     | 1948.0     | 1118.0     |                        |
| 4       | 343941.0         | 72.3             | 18          | 2                          | 1094.0     | 1916.0     | -          |                        |
| 5       | 497624.0         | 51.7             | 18          | 1                          | 1447.0     | -          | -          |                        |
| 6       | 20319.0          | 58.3             | 18          | 1                          | 1429.0     | -          | -          |                        |
| 7       | 172999.0         | 60.8             | 18          | 1                          | 1979.0     | -          | -          |                        |
| 8       | 325872.0         | 57.1             | 18          | 1                          | 1641.0     | -          | -          |                        |
| 9       | 475841.0         | 88.9             | 18          | 3                          | 1886.0     | 1964.0     | 1489.0     |                        |
| 10      | 1489.0           | 72.0             | 18          | 2                          | 1909.0     | 1297.0     | -          |                        |
| 11      | 153647.0         | 90.9             | 18          | 3                          | 1261.0     | 1566.0     | 1370.0     |                        |
| 12      | 307096.0         | 59.8             | 18          | 1                          | 1552.0     | -          | -          |                        |
| 13      | 458804.0         | 70.0             | 18          | 2                          | 1759.0     | 1291.0     | -          |                        |
| 14      | 610798.0         | 67.2             | 18          | 2                          | 1625.0     | 1881.0     | -          |                        |
| 15      | 134759.0         | 91.2             | 18          | 3                          | 1382.0     | 1832.0     | 1661.0     |                        |
| 16      | 288306.0         | 56.5             | 18          | 1                          | 1483.0     | -          | -          |                        |
| 17      | 441296.0         | 51.2             | 18          | 1                          | 1237.0     | -          | -          |                        |
| 18      | 592780.0         | 74.1             | 18          | 2                          | 1471.0     | 1245.0     | -          |                        |

Statistics 15 (ChirpCenter Frequency: 5254.8 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 158286.0         | 76.9             | 12          | 2                          | 1110.0     | 1140.0     | -          | 1                      |
| 1       | 366024.0         | 50.2             | 12          | 1                          | 1316.0     | -          | -          |                        |
| 2       | 573452.0         | 62.9             | 12          | 1                          | 1520.0     | -          | -          |                        |
| 3       | 780619.0         | 64.7             | 12          | 1                          | 1902.0     | -          | -          |                        |
| 4       | 132455.0         | 83.8             | 12          | 3                          | 1410.0     | 1097.0     | 1621.0     |                        |
| 5       | 340207.0         | 65.4             | 12          | 1                          | 1944.0     | -          | -          |                        |
| 6       | 548208.0         | 53.2             | 12          | 1                          | 1024.0     | -          | -          |                        |
| 7       | 755333.0         | 51.7             | 12          | 1                          | 1603.0     | -          | -          |                        |
| 8       | 107117.0         | 78.7             | 12          | 2                          | 1804.0     | 1168.0     | -          |                        |
| 9       | 314500.0         | 72.4             | 12          | 2                          | 1030.0     | 1343.0     | -          |                        |
| 10      | 522447.0         | 53.8             | 12          | 1                          | 1327.0     | -          | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 11 | 728517.0 | 73.6 | 12 | 2 | 1524.0 | 1553.0 | - |  |
| 12 | 81611.0  | 66.7 | 12 | 2 | 1722.0 | 1122.0 | - |  |
| 13 | 288948.0 | 82.5 | 12 | 2 | 1404.0 | 1019.0 | - |  |

Statistics 16 (ChirpCenter Frequency: 5258 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 345766.0         | 87.6             | 20          | 3                          | 1565.0     | 1055.0     | 1840.0     | 1                      |
| 1       | 490019.0         | 85.2             | 20          | 3                          | 1735.0     | 1541.0     | 1408.0     |                        |
| 2       | 39073.0          | 84.8             | 20          | 3                          | 1534.0     | 1889.0     | 1463.0     |                        |
| 3       | 183923.0         | 77.9             | 20          | 2                          | 1749.0     | 1460.0     | -          |                        |
| 4       | 328777.0         | 76.5             | 20          | 2                          | 1518.0     | 1485.0     | -          |                        |
| 5       | 474728.0         | 60.9             | 20          | 1                          | 1540.0     | -          | -          |                        |
| 6       | 21394.0          | 83.0             | 20          | 2                          | 1080.0     | 1010.0     | -          |                        |
| 7       | 165992.0         | 80.4             | 20          | 2                          | 1824.0     | 1752.0     | -          |                        |
| 8       | 310973.0         | 67.5             | 20          | 2                          | 1764.0     | 1181.0     | -          |                        |
| 9       | 456884.0         | 62.1             | 20          | 1                          | 1495.0     | -          | -          |                        |
| 10      | 3515.0           | 86.4             | 20          | 3                          | 1773.0     | 1966.0     | 1263.0     |                        |
| 11      | 147928.0         | 84.3             | 20          | 3                          | 1593.0     | 1188.0     | 1788.0     |                        |
| 12      | 293225.0         | 76.9             | 20          | 2                          | 1226.0     | 1537.0     | -          |                        |
| 13      | 436922.0         | 95.8             | 20          | 3                          | 1192.0     | 1298.0     | 1844.0     |                        |
| 14      | 584015.0         | 55.2             | 20          | 1                          | 1644.0     | -          | -          |                        |
| 15      | 130832.0         | 59.0             | 20          | 1                          | 1402.0     | -          | -          |                        |
| 16      | 274684.0         | 94.5             | 20          | 3                          | 1296.0     | 1700.0     | 1283.0     |                        |
| 17      | 418579.0         | 91.9             | 20          | 3                          | 1970.0     | 1978.0     | 1165.0     |                        |
| 18      | 563464.0         | 85.2             | 20          | 3                          | 1732.0     | 1551.0     | 1189.0     |                        |
| 19      | 112787.0         | 69.5             | 20          | 2                          | 1038.0     | 1224.0     | -          |                        |

Statistics 17 (ChirpCenter Frequency: 5254 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 429224.0         | 86.4             | 10          | 3                          | 1259.0     | 1918.0     | 1455.0     | 1                      |
| 1       | 670241.0         | 92.2             | 10          | 3                          | 1598.0     | 1719.0     | 1895.0     |                        |
| 2       | 912880.0         | 80.4             | 10          | 2                          | 1816.0     | 1899.0     | -          |                        |
| 3       | 158603.0         | 54.3             | 10          | 1                          | 1335.0     | -          | -          |                        |
| 4       | 400824.0         | 53.1             | 10          | 1                          | 1303.0     | -          | -          |                        |
| 5       | 641915.0         | 69.4             | 10          | 2                          | 1503.0     | 1546.0     | -          |                        |

|    |          |       |    |   |        |        |        |  |
|----|----------|-------|----|---|--------|--------|--------|--|
| 6  | 883823.0 | 69.1  | 10 | 2 | 1279.0 | 1639.0 | -      |  |
| 7  | 128373.0 | 100.0 | 10 | 3 | 1375.0 | 1438.0 | 1595.0 |  |
| 8  | 370379.0 | 79.6  | 10 | 2 | 1239.0 | 1705.0 | -      |  |
| 9  | 611194.0 | 88.4  | 10 | 3 | 1374.0 | 1579.0 | 1623.0 |  |
| 10 | 855665.0 | 53.3  | 10 | 1 | 1016.0 | -      | -      |  |
| 11 | 98897.0  | 65.3  | 10 | 1 | 1709.0 | -      | -      |  |

Statistics 18 (ChirpCenter Frequency: 5254.8 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 292143.0         | 55.3             | 12          | 1                          | 1920.0     | -          | -          | 1                      |
| 1       | 499633.0         | 58.3             | 12          | 1                          | 1797.0     | -          | -          |                        |
| 2       | 706377.0         | 72.3             | 12          | 2                          | 1610.0     | 1039.0     | -          |                        |
| 3       | 58989.0          | 84.8             | 12          | 3                          | 1131.0     | 1761.0     | 1721.0     |                        |
| 4       | 266161.0         | 82.5             | 12          | 2                          | 1875.0     | 1431.0     | -          |                        |
| 5       | 474469.0         | 63.3             | 12          | 1                          | 1095.0     | -          | -          |                        |
| 6       | 680544.0         | 80.0             | 12          | 2                          | 1119.0     | 1913.0     | -          |                        |
| 7       | 33519.0          | 90.3             | 12          | 3                          | 1660.0     | 1853.0     | 1123.0     |                        |
| 8       | 240319.0         | 91.1             | 12          | 3                          | 1539.0     | 1783.0     | 1172.0     |                        |
| 9       | 447400.0         | 96.6             | 12          | 3                          | 1525.0     | 1036.0     | 1385.0     |                        |
| 10      | 654516.0         | 82.7             | 12          | 2                          | 1710.0     | 1990.0     | -          |                        |
| 11      | 8083.0           | 50.7             | 12          | 1                          | 1234.0     | -          | -          |                        |
| 12      | 215435.0         | 78.4             | 12          | 2                          | 1047.0     | 1109.0     | -          |                        |
| 13      | 421325.0         | 99.5             | 12          | 3                          | 1299.0     | 1965.0     | 1869.0     |                        |

Statistics 19 (ChirpCenter Frequency: 5254 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 733725.0          | 88.6             | 10          | 3                          | 1501.0     | 1067.0     | 1927.0     | 1                      |
| 1       | 977882.0          | 57.4             | 10          | 1                          | 1723.0     | -          | -          |                        |
| 2       | 221197.0          | 96.6             | 10          | 3                          | 1086.0     | 1658.0     | 1324.0     |                        |
| 3       | 462915.0          | 69.7             | 10          | 2                          | 1751.0     | 1945.0     | -          |                        |
| 4       | 705071.0          | 77.9             | 10          | 2                          | 1642.0     | 1317.0     | -          |                        |
| 5       | 947923.0          | 62.0             | 10          | 1                          | 1866.0     | -          | -          |                        |
| 6       | 191373.0          | 88.4             | 10          | 3                          | 1997.0     | 1077.0     | 1366.0     |                        |
| 7       | 432561.0          | 97.3             | 10          | 3                          | 1790.0     | 1896.0     | 1367.0     |                        |
| 8       | 674004.0          | 96.2             | 10          | 3                          | 1391.0     | 1787.0     | 1672.0     |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 9  | 915842.0 | 95.4 | 10 | 3 | 1020.0 | 1892.0 | 1414.0 |  |
| 10 | 162176.0 | 54.8 | 10 | 1 | 1084.0 | -      | -      |  |
| 11 | 403553.0 | 80.4 | 10 | 2 | 1850.0 | 1436.0 | -      |  |

## Radar Type 5 Case3 Statistical Performance

## Statistics 20 (ChirpCenter Frequency:5264MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 483470.0          | 74.7             | 15          | 2                          | 1619.0     | 1611.0     | -          | 1                      |
| 1       | 666072.0          | 57.1             | 15          | 1                          | 1560.0     | -          | -          |                        |
| 2       | 98810.0           | 91.9             | 15          | 3                          | 1392.0     | 1475.0     | 1276.0     |                        |
| 3       | 279914.0          | 83.1             | 15          | 2                          | 1809.0     | 1772.0     | -          |                        |
| 4       | 462536.0          | 50.7             | 15          | 1                          | 1003.0     | -          | -          |                        |
| 5       | 642324.0          | 79.2             | 15          | 2                          | 1574.0     | 1600.0     | -          |                        |
| 6       | 76831.0           | 58.7             | 15          | 1                          | 1186.0     | -          | -          |                        |
| 7       | 257785.0          | 71.0             | 15          | 2                          | 1521.0     | 1567.0     | -          |                        |
| 8       | 438554.0          | 79.0             | 15          | 2                          | 1777.0     | 1960.0     | -          |                        |
| 9       | 620397.0          | 68.5             | 15          | 2                          | 1284.0     | 1428.0     | -          |                        |
| 10      | 54310.0           | 73.5             | 15          | 2                          | 1904.0     | 1352.0     | -          |                        |
| 11      | 235506.0          | 70.5             | 15          | 2                          | 1864.0     | 1115.0     | -          |                        |
| 12      | 417036.0          | 76.6             | 15          | 2                          | 1045.0     | 1300.0     | -          |                        |
| 13      | 597974.0          | 81.2             | 15          | 2                          | 1160.0     | 1675.0     | -          |                        |
| 14      | 32086.0           | 61.8             | 15          | 1                          | 1277.0     | -          | -          |                        |
| 15      | 212751.0          | 94.9             | 15          | 3                          | 1450.0     | 1206.0     | 1860.0     |                        |

## Statistics 21 (ChirpCenter Frequency: 5266.4 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 526149.0          | 78.5             | 9           | 2                          | 1653.0     | 1698.0     | -          | 1                      |
| 1       | 767135.0          | 89.8             | 9           | 3                          | 1174.0     | 1962.0     | 1167.0     |                        |
| 2       | 12955.0           | 59.4             | 9           | 1                          | 1982.0     | -          | -          |                        |
| 3       | 254612.0          | 79.6             | 9           | 2                          | 1633.0     | 1890.0     | -          |                        |
| 4       | 496588.0          | 76.0             | 9           | 2                          | 1112.0     | 1811.0     | -          |                        |
| 5       | 739728.0          | 53.6             | 9           | 1                          | 1144.0     | -          | -          |                        |
| 6       | 980872.0          | 80.9             | 9           | 2                          | 1220.0     | 1053.0     | -          |                        |
| 7       | 225249.0          | 61.6             | 9           | 1                          | 1724.0     | -          | -          |                        |
| 8       | 467279.0          | 53.4             | 9           | 1                          | 1901.0     | -          | -          |                        |
| 9       | 709720.0          | 59.9             | 9           | 1                          | 1379.0     | -          | -          |                        |

|    |          |      |   |   |        |        |        |  |
|----|----------|------|---|---|--------|--------|--------|--|
| 10 | 951847.0 | 60.4 | 9 | 1 | 1453.0 | -      | -      |  |
| 11 | 194839.0 | 91.4 | 9 | 3 | 1768.0 | 1726.0 | 1227.0 |  |

Statistics 22 (ChirpCenter Frequency: 5262MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 261858.0          | 77.0             | 20          | 2                          | 1191.0     | 1363.0     | -          | 1                      |
| 1       | 407646.0          | 58.1             | 20          | 1                          | 1248.0     | -          | -          |                        |
| 2       | 552319.0          | 62.1             | 20          | 1                          | 1836.0     | -          | -          |                        |
| 3       | 99107.0           | 76.9             | 20          | 2                          | 1334.0     | 1236.0     | -          |                        |
| 4       | 243514.0          | 80.0             | 20          | 2                          | 1914.0     | 1852.0     | -          |                        |
| 5       | 389464.0          | 52.0             | 20          | 1                          | 1701.0     | -          | -          |                        |
| 6       | 531093.0          | 88.6             | 20          | 3                          | 1693.0     | 1995.0     | 1905.0     |                        |
| 7       | 81159.0           | 72.9             | 20          | 2                          | 1922.0     | 1387.0     | -          |                        |
| 8       | 225245.0          | 98.5             | 20          | 3                          | 1839.0     | 1746.0     | 1389.0     |                        |
| 9       | 371906.0          | 57.9             | 20          | 1                          | 1193.0     | -          | -          |                        |
| 10      | 514197.0          | 95.9             | 20          | 3                          | 1659.0     | 1870.0     | 1066.0     |                        |
| 11      | 63561.0           | 53.5             | 20          | 1                          | 1162.0     | -          | -          |                        |
| 12      | 207510.0          | 92.0             | 20          | 3                          | 1745.0     | 1654.0     | 1458.0     |                        |
| 13      | 353638.0          | 57.3             | 20          | 1                          | 1834.0     | -          | -          |                        |
| 14      | 497515.0          | 70.5             | 20          | 2                          | 1684.0     | 1586.0     | -          |                        |
| 15      | 45553.0           | 70.0             | 20          | 2                          | 1042.0     | 1664.0     | -          |                        |
| 16      | 189821.0          | 84.0             | 20          | 3                          | 1765.0     | 1630.0     | 1176.0     |                        |
| 17      | 335330.0          | 76.1             | 20          | 2                          | 1557.0     | 1057.0     | -          |                        |
| 18      | 478825.0          | 93.2             | 20          | 3                          | 1985.0     | 1018.0     | 1340.0     |                        |
| 19      | 27594.0           | 96.8             | 20          | 3                          | 1760.0     | 1614.0     | 1817.0     |                        |

Statistics 23 (ChirpCenter Frequency:5265.2MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 247117.0         | 50.1             | 12          | 1                          | 1841.0     | -          | -          | 1                      |
| 1       | 453362.0         | 93.5             | 12          | 3                          | 1590.0     | 1081.0     | 1413.0     |                        |
| 2       | 660875.0         | 68.8             | 12          | 2                          | 1707.0     | 1577.0     | -          |                        |
| 3       | 14140.0          | 56.3             | 12          | 1                          | 1056.0     | -          | -          |                        |
| 4       | 220734.0         | 86.0             | 12          | 3                          | 1953.0     | 1108.0     | 1987.0     |                        |
| 5       | 428367.0         | 75.2             | 12          | 2                          | 1572.0     | 1536.0     | -          |                        |
| 6       | 636681.0         | 54.4             | 12          | 1                          | 1517.0     | -          | -          |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 7  | 843157.0 | 71.1 | 12 | 2 | 1329.0 | 1243.0 | -      |  |
| 8  | 195585.0 | 76.2 | 12 | 2 | 1940.0 | 1770.0 | -      |  |
| 9  | 403231.0 | 80.2 | 12 | 2 | 1098.0 | 1209.0 | -      |  |
| 10 | 610202.0 | 79.7 | 12 | 2 | 1588.0 | 1214.0 | -      |  |
| 11 | 815229.0 | 90.9 | 12 | 3 | 1615.0 | 1862.0 | 1601.0 |  |
| 12 | 170267.0 | 68.7 | 12 | 2 | 1377.0 | 1441.0 | -      |  |
| 13 | 377306.0 | 67.4 | 12 | 2 | 1872.0 | 1313.0 | -      |  |

Statistics 24 (ChirpCenter Frequency: 5265.6 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 628071.0         | 94.0             | 11          | 3                          | 1643.0     | 1748.0     | 1941.0     | 1                      |
| 1       | 853391.0         | 70.8             | 11          | 2                          | 1177.0     | 1201.0     | -          |                        |
| 2       | 156223.0         | 56.3             | 11          | 1                          | 1006.0     | -          | -          |                        |
| 3       | 378734.0         | 96.7             | 11          | 3                          | 1230.0     | 1163.0     | 1332.0     |                        |
| 4       | 601331.0         | 90.6             | 11          | 3                          | 1217.0     | 1582.0     | 1498.0     |                        |
| 5       | 825462.0         | 74.5             | 11          | 2                          | 1569.0     | 1281.0     | -          |                        |
| 6       | 128265.0         | 92.6             | 11          | 3                          | 1065.0     | 1669.0     | 1222.0     |                        |
| 7       | 351161.0         | 89.0             | 11          | 3                          | 1493.0     | 1135.0     | 1380.0     |                        |
| 8       | 573425.0         | 96.5             | 11          | 3                          | 1607.0     | 1822.0     | 1602.0     |                        |
| 9       | 798431.0         | 70.5             | 11          | 2                          | 1141.0     | 1178.0     | -          |                        |
| 10      | 100737.0         | 94.0             | 11          | 3                          | 1009.0     | 1629.0     | 1956.0     |                        |
| 11      | 324661.0         | 55.8             | 11          | 1                          | 1290.0     | -          | -          |                        |
| 12      | 546278.0         | 87.7             | 11          | 3                          | 1435.0     | 1963.0     | 1164.0     |                        |

Statistics 25 (ChirpCenter Frequency: 5268 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 1253842.0         | 68.6             | 5           | 2                          | 1306.0     | 1161.0     | -          | 1                      |
| 1       | 119486.0          | 83.1             | 5           | 2                          | 1420.0     | 1315.0     | -          |                        |
| 2       | 482958.0          | 60.9             | 5           | 1                          | 1687.0     | -          | -          |                        |
| 3       | 845641.0          | 77.7             | 5           | 2                          | 1776.0     | 1158.0     | -          |                        |
| 4       | 1208428.0         | 77.4             | 5           | 2                          | 1793.0     | 1510.0     | -          |                        |
| 5       | 74748.0           | 66.8             | 5           | 2                          | 1576.0     | 1323.0     | -          |                        |
| 6       | 438300.0          | 63.7             | 5           | 1                          | 1333.0     | -          | -          |                        |
| 7       | 800152.0          | 91.2             | 5           | 3                          | 1409.0     | 1681.0     | 1275.0     |                        |

Statistics 26 (ChirpCenter Frequency: 5263.6 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 545865.0          | 83.6             | 16          | 3                          | 1632.0     | 1195.0     | 1000.0     | 1                      |
| 1       | 14067.0           | 89.4             | 16          | 3                          | 1173.0     | 1627.0     | 1656.0     |                        |
| 2       | 184953.0          | 55.8             | 16          | 1                          | 1532.0     | -          | -          |                        |
| 3       | 353759.0          | 90.9             | 16          | 3                          | 1981.0     | 1554.0     | 1998.0     |                        |
| 4       | 526388.0          | 54.7             | 16          | 1                          | 1825.0     | -          | -          |                        |
| 5       | 694806.0          | 97.7             | 16          | 3                          | 1734.0     | 1202.0     | 1250.0     |                        |
| 6       | 163568.0          | 67.5             | 16          | 2                          | 1571.0     | 1434.0     | -          |                        |
| 7       | 333410.0          | 96.7             | 16          | 3                          | 1589.0     | 1469.0     | 1268.0     |                        |
| 8       | 504006.0          | 68.3             | 16          | 2                          | 1750.0     | 1954.0     | -          |                        |
| 9       | 675297.0          | 78.3             | 16          | 2                          | 1591.0     | 1082.0     | -          |                        |
| 10      | 142890.0          | 55.0             | 16          | 1                          | 1427.0     | -          | -          |                        |
| 11      | 312479.0          | 84.9             | 16          | 3                          | 1129.0     | 1936.0     | 1199.0     |                        |
| 12      | 482953.0          | 74.6             | 16          | 2                          | 1959.0     | 1856.0     | -          |                        |
| 13      | 655022.0          | 63.3             | 16          | 1                          | 1885.0     | -          | -          |                        |
| 14      | 121457.0          | 99.8             | 16          | 3                          | 1035.0     | 1515.0     | 1120.0     |                        |
| 15      | 292606.0          | 63.6             | 16          | 1                          | 1647.0     | -          | -          |                        |
| 16      | 461322.0          | 87.3             | 16          | 3                          | 1931.0     | 1051.0     | 1831.0     |                        |

Statistics 27 (ChirpCenter Frequency: 5262.4 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 565136.0          | 85.6             | 19          | 3                          | 1946.0     | 1078.0     | 1015.0     | 1                      |
| 1       | 89970.0           | 68.6             | 19          | 2                          | 1029.0     | 1780.0     | -          |                        |
| 2       | 243121.0          | 54.2             | 19          | 1                          | 1111.0     | -          | -          |                        |
| 3       | 396034.0          | 61.2             | 19          | 1                          | 1104.0     | -          | -          |                        |
| 4       | 546225.0          | 97.1             | 19          | 3                          | 1157.0     | 1969.0     | 1100.0     |                        |
| 5       | 70998.0           | 98.3             | 19          | 3                          | 1142.0     | 1699.0     | 1622.0     |                        |
| 6       | 224093.0          | 62.4             | 19          | 1                          | 1655.0     | -          | -          |                        |
| 7       | 376127.0          | 80.2             | 19          | 2                          | 1126.0     | 1769.0     | -          |                        |
| 8       | 527806.0          | 87.5             | 19          | 3                          | 1216.0     | 1448.0     | 1179.0     |                        |
| 9       | 52247.0           | 85.8             | 19          | 3                          | 1847.0     | 1348.0     | 1472.0     |                        |
| 10      | 204582.0          | 88.1             | 19          | 3                          | 1023.0     | 1124.0     | 1631.0     |                        |
| 11      | 357941.0          | 65.3             | 19          | 1                          | 1848.0     | -          | -          |                        |
| 12      | 510977.0          | 52.5             | 19          | 1                          | 1470.0     | -          | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 13 | 33698.0  | 52.3 | 19 | 1 | 1312.0 | -      | - |  |
| 14 | 186023.0 | 74.1 | 19 | 2 | 1915.0 | 1200.0 | - |  |
| 15 | 339327.0 | 54.9 | 19 | 1 | 1479.0 | -      | - |  |
| 16 | 491053.0 | 76.2 | 19 | 2 | 1376.0 | 1502.0 | - |  |
| 17 | 14858.0  | 60.4 | 19 | 1 | 1758.0 | -      | - |  |
| 18 | 167387.0 | 81.5 | 19 | 2 | 1491.0 | 1103.0 | - |  |

Statistics 28 (ChirpCenter Frequency: 5266 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | Pulse 2-3 Spacing (μS) | Pulse Start (mS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------------------|------------------|------------------------|
| 0       | 507709.0          | 50.5             | 10          | 1                          | 1857.0     | -                      | -                | 1                      |
| 1       | 750249.0          | 55.7             | 10          | 1                          | 1246.0     | -                      | -                |                        |
| 2       | 989003.0          | 85.8             | 10          | 3                          | 1774.0     | 1002.0                 | 1967.0           |                        |
| 3       | 235634.0          | 76.9             | 10          | 2                          | 1125.0     | 1474.0                 | -                |                        |
| 4       | 477675.0          | 75.1             | 10          | 2                          | 1254.0     | 1052.0                 | -                |                        |
| 5       | 718312.0          | 92.3             | 10          | 3                          | 1180.0     | 1486.0                 | 1492.0           |                        |
| 6       | 960895.0          | 78.1             | 10          | 2                          | 1301.0     | 1757.0                 | -                |                        |
| 7       | 205370.0          | 92.2             | 10          | 3                          | 1898.0     | 1252.0                 | 1713.0           |                        |
| 8       | 446940.0          | 89.0             | 10          | 3                          | 1260.0     | 1706.0                 | 1411.0           |                        |
| 9       | 689225.0          | 70.9             | 10          | 2                          | 1578.0     | 1620.0                 | -                |                        |
| 10      | 932305.0          | 63.1             | 10          | 1                          | 1782.0     | -                      | -                |                        |
| 11      | 176231.0          | 55.3             | 10          | 1                          | 1522.0     | -                      | -                |                        |

Statistics 29 (ChirpCenter Frequency: 5263.2 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | Pulse 2-3 Spacing (μS) | Pulse Start (mS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------------------|------------------|------------------------|
| 0       | 437880.0          | 97.3             | 17          | 3                          | 1319.0     | 1826.0                 | 1635.0           | 1                      |
| 1       | 598445.0          | 90.4             | 17          | 3                          | 1079.0     | 1986.0                 | 1674.0           |                        |
| 2       | 97088.0           | 91.8             | 17          | 3                          | 1563.0     | 1151.0                 | 1802.0           |                        |
| 3       | 257251.0          | 98.2             | 17          | 3                          | 1876.0     | 1977.0                 | 1766.0           |                        |
| 4       | 419893.0          | 59.5             | 17          | 1                          | 1952.0     | -                      | -                |                        |
| 5       | 580724.0          | 80.0             | 17          | 2                          | 1253.0     | 1137.0                 | -                |                        |
| 6       | 77366.0           | 86.5             | 17          | 3                          | 1054.0     | 1128.0                 | 1828.0           |                        |
| 7       | 238032.0          | 91.1             | 17          | 3                          | 1105.0     | 1599.0                 | 1442.0           |                        |
| 8       | 398605.0          | 93.5             | 17          | 3                          | 1867.0     | 1373.0                 | 1087.0           |                        |
| 9       | 562025.0          | 60.7             | 17          | 1                          | 1033.0     | -                      | -                |                        |
| 10      | 57684.0           | 67.2             | 17          | 2                          | 1288.0     | 1405.0                 | -                |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 11 | 219083.0 | 61.8 | 17 | 1 | 1585.0 | -      | -      |  |
| 12 | 379234.0 | 79.4 | 17 | 2 | 1933.0 | 1667.0 | -      |  |
| 13 | 540896.0 | 81.4 | 17 | 2 | 1096.0 | 1464.0 | -      |  |
| 14 | 37916.0  | 65.7 | 17 | 1 | 1496.0 | -      | -      |  |
| 15 | 198794.0 | 76.0 | 17 | 2 | 1733.0 | 1255.0 | -      |  |
| 16 | 359754.0 | 81.0 | 17 | 2 | 1326.0 | 1668.0 | -      |  |
| 17 | 437880.0 | 97.3 | 17 | 3 | 1319.0 | 1826.0 | 1635.0 |  |

11N40MIMO-5270MHz:

Radar Type 5 Case1 Statistical Performance

Statistics 0 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 636185.0         | 77.8             | 13          | 2                          | 1665.0     | 1477.0     | -          | 1                      |
| 1       | 32674.0          | 51.9             | 13          | 1                          | 1074.0     | -          | -          |                        |
| 2       | 226294.0         | 63.8             | 13          | 1                          | 1584.0     | -          | -          |                        |
| 3       | 417976.0         | 96.6             | 13          | 3                          | 1682.0     | 1786.0     | 1843.0     |                        |
| 4       | 611152.0         | 85.9             | 13          | 3                          | 1795.0     | 1215.0     | 1729.0     |                        |
| 5       | 8789.0           | 73.7             | 13          | 2                          | 1198.0     | 1549.0     | -          |                        |
| 6       | 201917.0         | 77.2             | 13          | 2                          | 1837.0     | 1819.0     | -          |                        |
| 7       | 395530.0         | 68.4             | 13          | 2                          | 1587.0     | 1114.0     | -          |                        |
| 8       | 588564.0         | 76.7             | 13          | 2                          | 2000.0     | 1155.0     | -          |                        |
| 9       | 783794.0         | 53.2             | 13          | 1                          | 1147.0     | -          | -          |                        |
| 10      | 177933.0         | 85.7             | 13          | 3                          | 1433.0     | 1695.0     | 1394.0     |                        |
| 11      | 370624.0         | 94.3             | 13          | 3                          | 1670.0     | 1426.0     | 1935.0     |                        |
| 12      | 564893.0         | 77.6             | 13          | 2                          | 1294.0     | 1671.0     | -          |                        |
| 13      | 759583.0         | 65.7             | 13          | 1                          | 1512.0     | -          | -          |                        |
| 14      | 154262.0         | 93.5             | 13          | 3                          | 1444.0     | 1130.0     | 1468.0     |                        |

Statistics 1 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 653020.0         | 75.0             | 5           | 2                          | 1880.0     | 1527.0     | -          | 1                      |
| 1       | 1015643.0        | 99.4             | 5           | 3                          | 1401.0     | 1262.0     | 1257.0     |                        |
| 2       | 1379398.0        | 67.4             | 5           | 2                          | 1531.0     | 1403.0     | -          |                        |
| 3       | 245489.0         | 73.6             | 5           | 2                          | 1449.0     | 1041.0     | -          |                        |
| 4       | 609113.0         | 65.9             | 5           | 1                          | 1432.0     | -          | -          |                        |
| 5       | 970852.0         | 83.8             | 5           | 3                          | 1356.0     | 1292.0     | 1419.0     |                        |
| 6       | 1335913.0        | 65.5             | 5           | 1                          | 1543.0     | -          | -          |                        |
| 7       | 200406.0         | 98.6             | 5           | 3                          | 1548.0     | 1796.0     | 1728.0     |                        |

Statistics 2 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 409565.0         | 73.8             | 9           | 2                          | 1806.0     | 1538.0     | -          | 1                      |
| 1       | 673692.0         | 69.5             | 9           | 2                          | 1117.0     | 1649.0     | -          |                        |
| 2       | 938562.0         | 51.9             | 9           | 1                          | 1651.0     | -          | -          |                        |
| 3       | 113209.0         | 84.6             | 9           | 3                          | 1976.0     | 1032.0     | 1271.0     |                        |
| 4       | 376726.0         | 95.4             | 9           | 3                          | 1060.0     | 1903.0     | 1388.0     |                        |
| 5       | 641212.0         | 68.0             | 9           | 2                          | 1368.0     | 1351.0     | -          |                        |
| 6       | 903714.0         | 89.6             | 9           | 3                          | 1338.0     | 1514.0     | 1573.0     |                        |
| 7       | 80863.0          | 81.9             | 9           | 2                          | 1022.0     | 1689.0     | -          |                        |
| 8       | 344067.0         | 88.3             | 9           | 3                          | 1810.0     | 1330.0     | 1838.0     |                        |
| 9       | 609331.0         | 53.7             | 9           | 1                          | 1597.0     | -          | -          |                        |
| 10      | 871542.0         | 91.3             | 9           | 3                          | 1961.0     | 1106.0     | 1001.0     |                        |

Statistics 3 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 26541.0          | 68.1             | 19          | 2                          | 1339.0     | 1355.0     | -          | 1                      |
| 1       | 171821.0         | 58.7             | 19          | 1                          | 1251.0     | -          | -          |                        |
| 2       | 316229.0         | 75.3             | 19          | 2                          | 1136.0     | 1640.0     | -          |                        |
| 3       | 461864.0         | 56.4             | 19          | 1                          | 1753.0     | -          | -          |                        |
| 4       | 8677.0           | 99.7             | 19          | 3                          | 1196.0     | 1708.0     | 1159.0     |                        |
| 5       | 153995.0         | 57.7             | 19          | 1                          | 1013.0     | -          | -          |                        |
| 6       | 299238.0         | 59.5             | 19          | 1                          | 1072.0     | -          | -          |                        |
| 7       | 443177.0         | 80.0             | 19          | 2                          | 1482.0     | 1369.0     | -          |                        |
| 8       | 587671.0         | 82.0             | 19          | 2                          | 1993.0     | 1197.0     | -          |                        |
| 9       | 135674.0         | 82.8             | 19          | 2                          | 1883.0     | 1005.0     | -          |                        |
| 10      | 279928.0         | 88.0             | 19          | 3                          | 1061.0     | 1928.0     | 1101.0     |                        |
| 11      | 424279.0         | 93.2             | 19          | 3                          | 1207.0     | 1907.0     | 1223.0     |                        |
| 12      | 570132.0         | 70.4             | 19          | 2                          | 1526.0     | 1360.0     | -          |                        |
| 13      | 117439.0         | 95.3             | 19          | 3                          | 1171.0     | 1955.0     | 1775.0     |                        |
| 14      |                  |                  |             |                            |            |            |            |                        |
| 15      | 262502.0         | 81.9             | 19          | 2                          | 1690.0     | 1545.0     | -          |                        |
| 16      | 406573.0         | 98.5             | 19          | 3                          | 1975.0     | 1169.0     | 1062.0     |                        |
| 17      | 553328.0         | 65.0             | 19          | 1                          | 1767.0     | -          | -          |                        |
| 18      | 99799.0          | 85.4             | 19          | 3                          | 1011.0     | 1637.0     | 1425.0     |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 19 | 244095.0 | 91.6 | 19 | 3 | 1878.0 | 1445.0 | 1325.0 |  |
|----|----------|------|----|---|--------|--------|--------|--|

Statistics 4 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 629614.0         | 67.9             | 16          | 2                          | 1320.0     | 1133.0     | -          | 1                      |
| 1       | 96856.0          | 62.3             | 16          | 1                          | 1957.0     | -          | -          |                        |
| 2       | 267719.0         | 53.3             | 16          | 1                          | 1592.0     | -          | -          |                        |
| 3       | 436784.0         | 90.0             | 16          | 3                          | 1900.0     | 1153.0     | 1346.0     |                        |
| 4       | 608289.0         | 77.1             | 16          | 2                          | 1166.0     | 1646.0     | -          |                        |
| 5       | 75610.0          | 83.9             | 16          | 3                          | 1278.0     | 1232.0     | 1459.0     |                        |
| 6       | 245638.0         | 89.1             | 16          | 3                          | 1240.0     | 1384.0     | 1939.0     |                        |
| 7       | 416355.0         | 81.8             | 16          | 2                          | 1833.0     | 1676.0     | -          |                        |
| 8       | 588736.0         | 50.3             | 16          | 1                          | 1075.0     | -          | -          |                        |
| 9       | 54571.0          | 87.1             | 16          | 3                          | 1116.0     | 1996.0     | 1756.0     |                        |
| 10      | 225175.0         | 71.3             | 16          | 2                          | 1225.0     | 1815.0     | -          |                        |
| 11      | 394825.0         | 97.5             | 16          | 3                          | 1884.0     | 1465.0     | 1132.0     |                        |
| 12      | 565361.0         | 90.6             | 16          | 3                          | 1561.0     | 1040.0     | 1354.0     |                        |
| 13      | 33643.0          | 86.3             | 16          | 3                          | 1596.0     | 1183.0     | 1792.0     |                        |
| 14      | 203957.0         | 97.6             | 16          | 3                          | 1365.0     | 1073.0     | 1361.0     |                        |
| 15      | 373812.0         | 84.7             | 16          | 3                          | 1021.0     | 1718.0     | 1854.0     |                        |
| 16      | 544060.0         | 99.7             | 16          | 3                          | 1150.0     | 1244.0     | 1988.0     |                        |

Statistics 5 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 15438.0          | 92.9             | 12          | 3                          | 1085.0     | 1564.0     | 1407.0     | 1                      |
| 1       | 222486.0         | 67.7             | 12          | 2                          | 1744.0     | 1747.0     | -          |                        |
| 2       | 430731.0         | 65.8             | 12          | 1                          | 1092.0     | -          | -          |                        |
| 3       | 637784.0         | 56.3             | 12          | 1                          | 1851.0     | -          | -          |                        |
| 4       | 845342.0         | 53.7             | 12          | 1                          | 1727.0     | -          | -          |                        |
| 5       | 196720.0         | 83.5             | 12          | 3                          | 1679.0     | 1930.0     | 1025.0     |                        |
| 6       | 404955.0         | 65.8             | 12          | 1                          | 1519.0     | -          | -          |                        |
| 7       | 610711.0         | 85.9             | 12          | 3                          | 1134.0     | 1034.0     | 1808.0     |                        |
| 8       | 818057.0         | 76.3             | 12          | 2                          | 1606.0     | 1926.0     | -          |                        |
| 9       | 171459.0         | 81.5             | 12          | 2                          | 1891.0     | 1714.0     | -          |                        |
| 10      | 377969.0         | 89.4             | 12          | 3                          | 1310.0     | 1594.0     | 1827.0     |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 11 | 586875.0 | 63.4 | 12 | 1 | 1568.0 | -      | - |  |
| 12 | 792834.0 | 69.6 | 12 | 2 | 1307.0 | 1925.0 | - |  |
| 13 | 146044.0 | 74.5 | 12 | 2 | 1264.0 | 1846.0 | - |  |

Statistics 6 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 329022.0         | 96.6             | 13          | 3                          | 1182.0     | 1609.0     | 1581.0     | 1                      |
| 1       | 521718.0         | 96.7             | 13          | 3                          | 1829.0     | 1799.0     | 1154.0     |                        |
| 2       | 714222.0         | 86.5             | 13          | 3                          | 1923.0     | 1396.0     | 1865.0     |                        |
| 3       | 112450.0         | 73.3             | 13          | 2                          | 1908.0     | 1318.0     | -          |                        |
| 4       | 306283.0         | 55.8             | 13          | 1                          | 1688.0     | -          | -          |                        |
| 5       | 500239.0         | 55.4             | 13          | 1                          | 1145.0     | -          | -          |                        |
| 6       | 690932.0         | 85.3             | 13          | 3                          | 1336.0     | 1504.0     | 1820.0     |                        |
| 7       | 88645.0          | 79.4             | 13          | 2                          | 1344.0     | 1893.0     | -          |                        |
| 8       | 282508.0         | 65.7             | 13          | 1                          | 1476.0     | -          | -          |                        |
| 9       | 475842.0         | 68.6             | 13          | 2                          | 1008.0     | 1028.0     | -          |                        |
| 10      | 667887.0         | 77.7             | 13          | 2                          | 1972.0     | 1835.0     | -          |                        |
| 11      | 64845.0          | 79.6             | 13          | 2                          | 1882.0     | 1331.0     | -          |                        |
| 12      | 257755.0         | 94.9             | 13          | 3                          | 1830.0     | 1070.0     | 1349.0     |                        |
| 13      | 452335.0         | 61.4             | 13          | 1                          | 1451.0     | -          | -          |                        |
| 14      | 643395.0         | 90.6             | 13          | 3                          | 1233.0     | 1562.0     | 1887.0     |                        |
| 15      | 329022.0         | 96.6             | 13          | 3                          | 1182.0     | 1609.0     | 1581.0     |                        |

Statistics 7 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 51446.0          | 52.6             | 10          | 1                          | 1210.0     | -          | -          | 1                      |
| 1       | 292696.0         | 84.1             | 10          | 3                          | 1314.0     | 1725.0     | 1529.0     |                        |
| 2       | 533989.0         | 97.7             | 10          | 3                          | 1139.0     | 1868.0     | 1805.0     |                        |
| 3       | 775564.0         | 97.3             | 10          | 3                          | 1341.0     | 1446.0     | 1755.0     |                        |
| 4       | 21542.0          | 98.8             | 10          | 3                          | 1544.0     | 1386.0     | 1302.0     |                        |
| 5       | 263385.0         | 72.2             | 10          | 2                          | 1771.0     | 1184.0     | -          |                        |
| 6       | 505581.0         | 67.6             | 10          | 2                          | 1175.0     | 1027.0     | -          |                        |
| 7       | 747058.0         | 75.7             | 10          | 2                          | 1026.0     | 1871.0     | -          |                        |
| 8       | 989976.0         | 60.9             | 10          | 1                          | 1798.0     | -          | -          |                        |
| 9       | 234024.0         | 64.2             | 10          | 1                          | 1138.0     | -          | -          |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 10 | 475207.0 | 78.8 | 10 | 2 | 1784.0 | 1604.0 | -      |  |
| 11 | 715825.0 | 87.5 | 10 | 3 | 1511.0 | 1712.0 | 1683.0 |  |

Statistics 8 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 823112.0         | 54.1             | 13          | 1                          | 1415.0     | -          | -          | 1                      |
| 1       | 174965.0         | 50.7             | 13          | 1                          | 1221.0     | -          | -          |                        |
| 2       | 382216.0         | 52.3             | 13          | 1                          | 1974.0     | -          | -          |                        |
| 3       | 587395.0         | 99.8             | 13          | 3                          | 1558.0     | 1696.0     | 1949.0     |                        |
| 4       | 796897.0         | 68.4             | 13          | 2                          | 1014.0     | 1099.0     | -          |                        |
| 5       | 149042.0         | 80.8             | 13          | 2                          | 1736.0     | 1505.0     | -          |                        |
| 6       | 356750.0         | 62.5             | 13          | 1                          | 1778.0     | -          | -          |                        |
| 7       | 563824.0         | 74.8             | 13          | 2                          | 1149.0     | 1204.0     | -          |                        |
| 8       | 772314.0         | 50.8             | 13          | 1                          | 1049.0     | -          | -          |                        |
| 9       | 123796.0         | 54.0             | 13          | 1                          | 1417.0     | -          | -          |                        |
| 10      | 331215.0         | 63.0             | 13          | 1                          | 1730.0     | -          | -          |                        |
| 11      | 537402.0         | 91.8             | 13          | 3                          | 1143.0     | 1270.0     | 1347.0     |                        |
| 12      | 744805.0         | 79.3             | 13          | 2                          | 1274.0     | 1992.0     | -          |                        |
| 13      | 98172.0          | 64.3             | 13          | 1                          | 1937.0     | -          | -          |                        |

Statistics 9 (ChirpCenter Frequency: 5270 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 535615.0         | 63.4             | 6           | 1                          | 1043.0     | -          | -          | 1                      |
| 1       | 898668.0         | 52.0             | 6           | 1                          | 1863.0     | -          | -          |                        |
| 2       | 1259235.0        | 97.2             | 6           | 3                          | 1973.0     | 1605.0     | 1583.0     |                        |
| 3       | 127106.0         | 78.7             | 6           | 2                          | 1466.0     | 1743.0     | -          |                        |
| 4       | 490358.0         | 74.2             | 6           | 2                          | 1280.0     | 1219.0     | -          |                        |
| 5       | 852409.0         | 88.7             | 6           | 3                          | 1293.0     | 1934.0     | 1273.0     |                        |
| 6       | 1217152.0        | 54.3             | 6           | 1                          | 1991.0     | -          | -          |                        |
| 7       | 82296.0          | 95.4             | 6           | 3                          | 1580.0     | 1555.0     | 1791.0     |                        |

## Radar Type 5 Case2 Statistical Performance

Statistics 10 (ChirpCenter Frequency: 5256.4 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 209249.0         | 73.7             | 16          | 2                          | 1208.0     | 1497.0     | -          | 1                      |
| 1       | 378386.0         | 97.4             | 16          | 3                          | 1942.0     | 1754.0     | 1613.0     |                        |
| 2       | 548411.0         | 91.7             | 16          | 3                          | 1999.0     | 1702.0     | 1462.0     |                        |
| 3       | 17733.0          | 66.2             | 16          | 1                          | 1393.0     | -          | -          |                        |
| 4       | 187952.0         | 70.8             | 16          | 2                          | 1968.0     | 1821.0     | -          |                        |
| 5       | 359277.0         | 52.3             | 16          | 1                          | 1740.0     | -          | -          |                        |
| 6       | 528886.0         | 78.9             | 16          | 2                          | 1308.0     | 1984.0     | -          |                        |
| 7       | 700166.0         | 70.9             | 16          | 2                          | 1050.0     | 1358.0     | -          |                        |
| 8       | 167197.0         | 75.6             | 16          | 2                          | 1437.0     | 1430.0     | -          |                        |
| 9       | 338262.0         | 59.1             | 16          | 1                          | 1697.0     | -          | -          |                        |
| 10      | 508324.0         | 77.0             | 16          | 2                          | 1397.0     | 1304.0     | -          |                        |
| 11      | 678689.0         | 67.9             | 16          | 2                          | 1803.0     | 1083.0     | -          |                        |
| 12      | 146031.0         | 81.2             | 16          | 2                          | 1720.0     | 1932.0     | -          |                        |
| 13      | 316923.0         | 78.7             | 16          | 2                          | 1247.0     | 1121.0     | -          |                        |
| 14      | 488056.0         | 63.3             | 16          | 1                          | 1634.0     | -          | -          |                        |
| 15      | 657326.0         | 68.9             | 16          | 2                          | 1849.0     | 1423.0     | -          |                        |
| 16      | 125509.0         | 59.3             | 16          | 1                          | 1093.0     | -          | -          |                        |

Statistics 11 (ChirpCenter Frequency: 5257.6MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 263736.0         | 98.9             | 19          | 3                          | 1381.0     | 1680.0     | 1488.0     | 1                      |
| 1       | 416459.0         | 82.3             | 19          | 2                          | 1716.0     | 1855.0     | -          |                        |
| 2       | 567902.0         | 86.7             | 19          | 3                          | 1211.0     | 1400.0     | 1919.0     |                        |
| 3       | 92979.0          | 89.7             | 19          | 3                          | 1861.0     | 1068.0     | 1282.0     |                        |
| 4       | 245155.0         | 98.6             | 19          | 3                          | 1507.0     | 1194.0     | 1461.0     |                        |
| 5       | 397609.0         | 71.1             | 19          | 2                          | 1921.0     | 1789.0     | -          |                        |
| 6       | 551431.0         | 55.9             | 19          | 1                          | 1947.0     | -          | -          |                        |
| 7       | 74413.0          | 67.9             | 19          | 2                          | 1350.0     | 1372.0     | -          |                        |
| 8       | 226559.0         | 84.4             | 19          | 3                          | 1203.0     | 1107.0     | 1443.0     |                        |
| 9       | 380056.0         | 58.8             | 19          | 1                          | 1715.0     | -          | -          |                        |
| 10      | 533408.0         | 65.6             | 19          | 1                          | 1017.0     | -          | -          |                        |
| 11      | 55547.0          | 78.5             | 19          | 2                          | 1911.0     | 1704.0     | -          |                        |
| 12      | 207876.0         | 82.3             | 19          | 2                          | 1845.0     | 1686.0     | -          |                        |
| 13      | 359771.0         | 90.1             | 19          | 3                          | 1938.0     | 1071.0     | 1266.0     |                        |
| 14      | 511297.0         | 90.2             | 19          | 3                          | 1989.0     | 1089.0     | 1950.0     |                        |
| 15      | 36803.0          | 83.1             | 19          | 2                          | 1943.0     | 1406.0     | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 16 | 189652.0 | 58.8 | 19 | 1 | 1742.0 | -      | - |  |
| 17 | 341809.0 | 77.0 | 19 | 2 | 1187.0 | 1657.0 | - |  |
| 18 | 495737.0 | 55.0 | 19 | 1 | 1012.0 | -      | - |  |

Statistics 12 (ChirpCenter Frequency: 5255.2MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 22911.0          | 58.1             | 13          | 1                          | 1929.0     | -          | -          | 1                      |
| 1       | 216473.0         | 52.1             | 13          | 1                          | 1910.0     | -          | -          |                        |
| 2       | 410004.0         | 59.9             | 13          | 1                          | 1971.0     | -          | -          |                        |
| 3       | 603671.0         | 60.2             | 13          | 1                          | 1812.0     | -          | -          |                        |
| 4       | 794160.0         | 95.9             | 13          | 3                          | 1399.0     | 1906.0     | 1608.0     |                        |
| 5       | 192251.0         | 79.9             | 13          | 2                          | 1626.0     | 1859.0     | -          |                        |
| 6       | 385590.0         | 78.5             | 13          | 2                          | 1238.0     | 1917.0     | -          |                        |
| 7       | 579862.0         | 53.8             | 13          | 1                          | 1763.0     | -          | -          |                        |
| 8       | 773423.0         | 64.7             | 13          | 1                          | 1800.0     | -          | -          |                        |
| 9       | 168898.0         | 61.4             | 13          | 1                          | 1390.0     | -          | -          |                        |
| 10      | 361606.0         | 83.2             | 13          | 2                          | 1692.0     | 1858.0     | -          |                        |
| 11      | 553866.0         | 84.7             | 13          | 3                          | 1533.0     | 1677.0     | 1638.0     |                        |
| 12      | 747241.0         | 88.7             | 13          | 3                          | 1703.0     | 1528.0     | 1058.0     |                        |
| 13      | 144710.0         | 78.3             | 13          | 2                          | 1258.0     | 1951.0     | -          |                        |
| 14      | 337856.0         | 69.3             | 13          | 2                          | 1731.0     | 1717.0     | -          |                        |

Statistics 13 (ChirpCenter Frequency: 5254MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 664275.0         | 75.3             | 10          | 2                          | 1994.0     | 1612.0     | -          | 1                      |
| 1       | 907886.0         | 56.3             | 10          | 1                          | 1456.0     | -          | -          |                        |
| 2       | 151316.0         | 67.7             | 10          | 2                          | 1617.0     | 1185.0     | -          |                        |
| 3       | 393746.0         | 55.6             | 10          | 1                          | 1337.0     | -          | -          |                        |
| 4       | 635093.0         | 75.2             | 10          | 2                          | 1421.0     | 1267.0     | -          |                        |
| 5       | 876993.0         | 76.3             | 10          | 2                          | 1359.0     | 1305.0     | -          |                        |
| 6       | 121278.0         | 85.7             | 10          | 3                          | 1547.0     | 1362.0     | 1924.0     |                        |
| 7       | 362696.0         | 98.4             | 10          | 3                          | 1873.0     | 1550.0     | 1249.0     |                        |
| 8       | 604342.0         | 86.4             | 10          | 3                          | 1779.0     | 1439.0     | 1046.0     |                        |
| 9       | 846453.0         | 93.6             | 10          | 3                          | 1059.0     | 1031.0     | 1452.0     |                        |
| 10      | 91871.0          | 63.3             | 10          | 1                          | 1328.0     | -          | -          |                        |
| 11      | 333050.0         | 92.4             | 10          | 3                          | 1412.0     | 1673.0     | 1322.0     |                        |

Statistics14 (ChirpCenter Frequency: 5257.2 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 361323.0         | 93.3             | 18          | 3                          | 1983.0     | 1912.0     | 1535.0     | 1                      |
| 1       | 515261.0         | 69.1             | 18          | 2                          | 1102.0     | 1794.0     | -          |                        |
| 2       | 39025.0          | 86.9             | 18          | 3                          | 1044.0     | 1152.0     | 1148.0     |                        |
| 3       | 190900.0         | 84.9             | 18          | 3                          | 1894.0     | 1948.0     | 1118.0     |                        |
| 4       | 343941.0         | 72.3             | 18          | 2                          | 1094.0     | 1916.0     | -          |                        |
| 5       | 497624.0         | 51.7             | 18          | 1                          | 1447.0     | -          | -          |                        |
| 6       | 20319.0          | 58.3             | 18          | 1                          | 1429.0     | -          | -          |                        |
| 7       | 172999.0         | 60.8             | 18          | 1                          | 1979.0     | -          | -          |                        |
| 8       | 325872.0         | 57.1             | 18          | 1                          | 1641.0     | -          | -          |                        |
| 9       | 475841.0         | 88.9             | 18          | 3                          | 1886.0     | 1964.0     | 1489.0     |                        |
| 10      | 1489.0           | 72.0             | 18          | 2                          | 1909.0     | 1297.0     | -          |                        |
| 11      | 153647.0         | 90.9             | 18          | 3                          | 1261.0     | 1566.0     | 1370.0     |                        |
| 12      | 307096.0         | 59.8             | 18          | 1                          | 1552.0     | -          | -          |                        |
| 13      | 458804.0         | 70.0             | 18          | 2                          | 1759.0     | 1291.0     | -          |                        |
| 14      | 610798.0         | 67.2             | 18          | 2                          | 1625.0     | 1881.0     | -          |                        |
| 15      | 134759.0         | 91.2             | 18          | 3                          | 1382.0     | 1832.0     | 1661.0     |                        |
| 16      | 288306.0         | 56.5             | 18          | 1                          | 1483.0     | -          | -          |                        |
| 17      | 441296.0         | 51.2             | 18          | 1                          | 1237.0     | -          | -          |                        |
| 18      | 592780.0         | 74.1             | 18          | 2                          | 1471.0     | 1245.0     | -          |                        |

Statistics 15 (ChirpCenter Frequency: 5254.8 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 158286.0         | 76.9             | 12          | 2                          | 1110.0     | 1140.0     | -          | 1                      |
| 1       | 366024.0         | 50.2             | 12          | 1                          | 1316.0     | -          | -          |                        |
| 2       | 573452.0         | 62.9             | 12          | 1                          | 1520.0     | -          | -          |                        |
| 3       | 780619.0         | 64.7             | 12          | 1                          | 1902.0     | -          | -          |                        |
| 4       | 132455.0         | 83.8             | 12          | 3                          | 1410.0     | 1097.0     | 1621.0     |                        |
| 5       | 340207.0         | 65.4             | 12          | 1                          | 1944.0     | -          | -          |                        |
| 6       | 548208.0         | 53.2             | 12          | 1                          | 1024.0     | -          | -          |                        |
| 7       | 755333.0         | 51.7             | 12          | 1                          | 1603.0     | -          | -          |                        |
| 8       | 107117.0         | 78.7             | 12          | 2                          | 1804.0     | 1168.0     | -          |                        |
| 9       | 314500.0         | 72.4             | 12          | 2                          | 1030.0     | 1343.0     | -          |                        |
| 10      | 522447.0         | 53.8             | 12          | 1                          | 1327.0     | -          | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 11 | 728517.0 | 73.6 | 12 | 2 | 1524.0 | 1553.0 | - |  |
| 12 | 81611.0  | 66.7 | 12 | 2 | 1722.0 | 1122.0 | - |  |
| 13 | 288948.0 | 82.5 | 12 | 2 | 1404.0 | 1019.0 | - |  |

Statistics 16 (ChirpCenter Frequency: 5258 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 345766.0         | 87.6             | 20          | 3                          | 1565.0     | 1055.0     | 1840.0     | 1                      |
| 1       | 490019.0         | 85.2             | 20          | 3                          | 1735.0     | 1541.0     | 1408.0     |                        |
| 2       | 39073.0          | 84.8             | 20          | 3                          | 1534.0     | 1889.0     | 1463.0     |                        |
| 3       | 183923.0         | 77.9             | 20          | 2                          | 1749.0     | 1460.0     | -          |                        |
| 4       | 328777.0         | 76.5             | 20          | 2                          | 1518.0     | 1485.0     | -          |                        |
| 5       | 474728.0         | 60.9             | 20          | 1                          | 1540.0     | -          | -          |                        |
| 6       | 21394.0          | 83.0             | 20          | 2                          | 1080.0     | 1010.0     | -          |                        |
| 7       | 165992.0         | 80.4             | 20          | 2                          | 1824.0     | 1752.0     | -          |                        |
| 8       | 310973.0         | 67.5             | 20          | 2                          | 1764.0     | 1181.0     | -          |                        |
| 9       | 456884.0         | 62.1             | 20          | 1                          | 1495.0     | -          | -          |                        |
| 10      | 3515.0           | 86.4             | 20          | 3                          | 1773.0     | 1966.0     | 1263.0     |                        |
| 11      | 147928.0         | 84.3             | 20          | 3                          | 1593.0     | 1188.0     | 1788.0     |                        |
| 12      | 293225.0         | 76.9             | 20          | 2                          | 1226.0     | 1537.0     | -          |                        |
| 13      | 436922.0         | 95.8             | 20          | 3                          | 1192.0     | 1298.0     | 1844.0     |                        |
| 14      | 584015.0         | 55.2             | 20          | 1                          | 1644.0     | -          | -          |                        |
| 15      | 130832.0         | 59.0             | 20          | 1                          | 1402.0     | -          | -          |                        |
| 16      | 274684.0         | 94.5             | 20          | 3                          | 1296.0     | 1700.0     | 1283.0     |                        |
| 17      | 418579.0         | 91.9             | 20          | 3                          | 1970.0     | 1978.0     | 1165.0     |                        |
| 18      | 563464.0         | 85.2             | 20          | 3                          | 1732.0     | 1551.0     | 1189.0     |                        |
| 19      | 112787.0         | 69.5             | 20          | 2                          | 1038.0     | 1224.0     | -          |                        |

Statistics 17 (ChirpCenter Frequency: 5254 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 429224.0         | 86.4             | 10          | 3                          | 1259.0     | 1918.0     | 1455.0     | 1                      |
| 1       | 670241.0         | 92.2             | 10          | 3                          | 1598.0     | 1719.0     | 1895.0     |                        |
| 2       | 912880.0         | 80.4             | 10          | 2                          | 1816.0     | 1899.0     | -          |                        |
| 3       | 158603.0         | 54.3             | 10          | 1                          | 1335.0     | -          | -          |                        |
| 4       | 400824.0         | 53.1             | 10          | 1                          | 1303.0     | -          | -          |                        |
| 5       | 641915.0         | 69.4             | 10          | 2                          | 1503.0     | 1546.0     | -          |                        |

|    |          |       |    |   |        |        |        |  |
|----|----------|-------|----|---|--------|--------|--------|--|
| 6  | 883823.0 | 69.1  | 10 | 2 | 1279.0 | 1639.0 | -      |  |
| 7  | 128373.0 | 100.0 | 10 | 3 | 1375.0 | 1438.0 | 1595.0 |  |
| 8  | 370379.0 | 79.6  | 10 | 2 | 1239.0 | 1705.0 | -      |  |
| 9  | 611194.0 | 88.4  | 10 | 3 | 1374.0 | 1579.0 | 1623.0 |  |
| 10 | 855665.0 | 53.3  | 10 | 1 | 1016.0 | -      | -      |  |
| 11 | 98897.0  | 65.3  | 10 | 1 | 1709.0 | -      | -      |  |

Statistics 18 (ChirpCenter Frequency: 5254.8 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 292143.0         | 55.3             | 12          | 1                          | 1920.0     | -          | -          | 1                      |
| 1       | 499633.0         | 58.3             | 12          | 1                          | 1797.0     | -          | -          |                        |
| 2       | 706377.0         | 72.3             | 12          | 2                          | 1610.0     | 1039.0     | -          |                        |
| 3       | 58989.0          | 84.8             | 12          | 3                          | 1131.0     | 1761.0     | 1721.0     |                        |
| 4       | 266161.0         | 82.5             | 12          | 2                          | 1875.0     | 1431.0     | -          |                        |
| 5       | 474469.0         | 63.3             | 12          | 1                          | 1095.0     | -          | -          |                        |
| 6       | 680544.0         | 80.0             | 12          | 2                          | 1119.0     | 1913.0     | -          |                        |
| 7       | 33519.0          | 90.3             | 12          | 3                          | 1660.0     | 1853.0     | 1123.0     |                        |
| 8       | 240319.0         | 91.1             | 12          | 3                          | 1539.0     | 1783.0     | 1172.0     |                        |
| 9       | 447400.0         | 96.6             | 12          | 3                          | 1525.0     | 1036.0     | 1385.0     |                        |
| 10      | 654516.0         | 82.7             | 12          | 2                          | 1710.0     | 1990.0     | -          |                        |
| 11      | 8083.0           | 50.7             | 12          | 1                          | 1234.0     | -          | -          |                        |
| 12      | 215435.0         | 78.4             | 12          | 2                          | 1047.0     | 1109.0     | -          |                        |
| 13      | 421325.0         | 99.5             | 12          | 3                          | 1299.0     | 1965.0     | 1869.0     |                        |

Statistics 19 (ChirpCenter Frequency: 5254 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 733725.0          | 88.6             | 10          | 3                          | 1501.0     | 1067.0     | 1927.0     | 1                      |
| 1       | 977882.0          | 57.4             | 10          | 1                          | 1723.0     | -          | -          |                        |
| 2       | 221197.0          | 96.6             | 10          | 3                          | 1086.0     | 1658.0     | 1324.0     |                        |
| 3       | 462915.0          | 69.7             | 10          | 2                          | 1751.0     | 1945.0     | -          |                        |
| 4       | 705071.0          | 77.9             | 10          | 2                          | 1642.0     | 1317.0     | -          |                        |
| 5       | 947923.0          | 62.0             | 10          | 1                          | 1866.0     | -          | -          |                        |
| 6       | 191373.0          | 88.4             | 10          | 3                          | 1997.0     | 1077.0     | 1366.0     |                        |
| 7       | 432561.0          | 97.3             | 10          | 3                          | 1790.0     | 1896.0     | 1367.0     |                        |
| 8       | 674004.0          | 96.2             | 10          | 3                          | 1391.0     | 1787.0     | 1672.0     |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 9  | 915842.0 | 95.4 | 10 | 3 | 1020.0 | 1892.0 | 1414.0 |  |
| 10 | 162176.0 | 54.8 | 10 | 1 | 1084.0 | -      | -      |  |
| 11 | 403553.0 | 80.4 | 10 | 2 | 1850.0 | 1436.0 | -      |  |

## Radar Type 5 Case3 Statistical Performance

## Statistics 20 (ChirpCenter Frequency:5284MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 483470.0          | 74.7             | 15          | 2                          | 1619.0     | 1611.0     | -          | 1                      |
| 1       | 666072.0          | 57.1             | 15          | 1                          | 1560.0     | -          | -          |                        |
| 2       | 98810.0           | 91.9             | 15          | 3                          | 1392.0     | 1475.0     | 1276.0     |                        |
| 3       | 279914.0          | 83.1             | 15          | 2                          | 1809.0     | 1772.0     | -          |                        |
| 4       | 462536.0          | 50.7             | 15          | 1                          | 1003.0     | -          | -          |                        |
| 5       | 642324.0          | 79.2             | 15          | 2                          | 1574.0     | 1600.0     | -          |                        |
| 6       | 76831.0           | 58.7             | 15          | 1                          | 1186.0     | -          | -          |                        |
| 7       | 257785.0          | 71.0             | 15          | 2                          | 1521.0     | 1567.0     | -          |                        |
| 8       | 438554.0          | 79.0             | 15          | 2                          | 1777.0     | 1960.0     | -          |                        |
| 9       | 620397.0          | 68.5             | 15          | 2                          | 1284.0     | 1428.0     | -          |                        |
| 10      | 54310.0           | 73.5             | 15          | 2                          | 1904.0     | 1352.0     | -          |                        |
| 11      | 235506.0          | 70.5             | 15          | 2                          | 1864.0     | 1115.0     | -          |                        |
| 12      | 417036.0          | 76.6             | 15          | 2                          | 1045.0     | 1300.0     | -          |                        |
| 13      | 597974.0          | 81.2             | 15          | 2                          | 1160.0     | 1675.0     | -          |                        |
| 14      | 32086.0           | 61.8             | 15          | 1                          | 1277.0     | -          | -          |                        |
| 15      | 212751.0          | 94.9             | 15          | 3                          | 1450.0     | 1206.0     | 1860.0     |                        |

## Statistics 21 (ChirpCenter Frequency: 5286.4 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 526149.0          | 78.5             | 9           | 2                          | 1653.0     | 1698.0     | -          | 1                      |
| 1       | 767135.0          | 89.8             | 9           | 3                          | 1174.0     | 1962.0     | 1167.0     |                        |
| 2       | 12955.0           | 59.4             | 9           | 1                          | 1982.0     | -          | -          |                        |
| 3       | 254612.0          | 79.6             | 9           | 2                          | 1633.0     | 1890.0     | -          |                        |
| 4       | 496588.0          | 76.0             | 9           | 2                          | 1112.0     | 1811.0     | -          |                        |
| 5       | 739728.0          | 53.6             | 9           | 1                          | 1144.0     | -          | -          |                        |
| 6       | 980872.0          | 80.9             | 9           | 2                          | 1220.0     | 1053.0     | -          |                        |
| 7       | 225249.0          | 61.6             | 9           | 1                          | 1724.0     | -          | -          |                        |
| 8       | 467279.0          | 53.4             | 9           | 1                          | 1901.0     | -          | -          |                        |
| 9       | 709720.0          | 59.9             | 9           | 1                          | 1379.0     | -          | -          |                        |

|    |          |      |   |   |        |        |        |  |
|----|----------|------|---|---|--------|--------|--------|--|
| 10 | 951847.0 | 60.4 | 9 | 1 | 1453.0 | -      | -      |  |
| 11 | 194839.0 | 91.4 | 9 | 3 | 1768.0 | 1726.0 | 1227.0 |  |

Statistics 22 (ChirpCenter Frequency: 5282MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 261858.0          | 77.0             | 20          | 2                          | 1191.0     | 1363.0     | -          | 1                      |
| 1       | 407646.0          | 58.1             | 20          | 1                          | 1248.0     | -          | -          |                        |
| 2       | 552319.0          | 62.1             | 20          | 1                          | 1836.0     | -          | -          |                        |
| 3       | 99107.0           | 76.9             | 20          | 2                          | 1334.0     | 1236.0     | -          |                        |
| 4       | 243514.0          | 80.0             | 20          | 2                          | 1914.0     | 1852.0     | -          |                        |
| 5       | 389464.0          | 52.0             | 20          | 1                          | 1701.0     | -          | -          |                        |
| 6       | 531093.0          | 88.6             | 20          | 3                          | 1693.0     | 1995.0     | 1905.0     |                        |
| 7       | 81159.0           | 72.9             | 20          | 2                          | 1922.0     | 1387.0     | -          |                        |
| 8       | 225245.0          | 98.5             | 20          | 3                          | 1839.0     | 1746.0     | 1389.0     |                        |
| 9       | 371906.0          | 57.9             | 20          | 1                          | 1193.0     | -          | -          |                        |
| 10      | 514197.0          | 95.9             | 20          | 3                          | 1659.0     | 1870.0     | 1066.0     |                        |
| 11      | 63561.0           | 53.5             | 20          | 1                          | 1162.0     | -          | -          |                        |
| 12      | 207510.0          | 92.0             | 20          | 3                          | 1745.0     | 1654.0     | 1458.0     |                        |
| 13      | 353638.0          | 57.3             | 20          | 1                          | 1834.0     | -          | -          |                        |
| 14      | 497515.0          | 70.5             | 20          | 2                          | 1684.0     | 1586.0     | -          |                        |
| 15      | 45553.0           | 70.0             | 20          | 2                          | 1042.0     | 1664.0     | -          |                        |
| 16      | 189821.0          | 84.0             | 20          | 3                          | 1765.0     | 1630.0     | 1176.0     |                        |
| 17      | 335330.0          | 76.1             | 20          | 2                          | 1557.0     | 1057.0     | -          |                        |
| 18      | 478825.0          | 93.2             | 20          | 3                          | 1985.0     | 1018.0     | 1340.0     |                        |
| 19      | 27594.0           | 96.8             | 20          | 3                          | 1760.0     | 1614.0     | 1817.0     |                        |

Statistics 23 (ChirpCenter Frequency:5285.2MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 247117.0         | 50.1             | 12          | 1                          | 1841.0     | -          | -          | 1                      |
| 1       | 453362.0         | 93.5             | 12          | 3                          | 1590.0     | 1081.0     | 1413.0     |                        |
| 2       | 660875.0         | 68.8             | 12          | 2                          | 1707.0     | 1577.0     | -          |                        |
| 3       | 14140.0          | 56.3             | 12          | 1                          | 1056.0     | -          | -          |                        |
| 4       | 220734.0         | 86.0             | 12          | 3                          | 1953.0     | 1108.0     | 1987.0     |                        |
| 5       | 428367.0         | 75.2             | 12          | 2                          | 1572.0     | 1536.0     | -          |                        |
| 6       | 636681.0         | 54.4             | 12          | 1                          | 1517.0     | -          | -          |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 7  | 843157.0 | 71.1 | 12 | 2 | 1329.0 | 1243.0 | -      |  |
| 8  | 195585.0 | 76.2 | 12 | 2 | 1940.0 | 1770.0 | -      |  |
| 9  | 403231.0 | 80.2 | 12 | 2 | 1098.0 | 1209.0 | -      |  |
| 10 | 610202.0 | 79.7 | 12 | 2 | 1588.0 | 1214.0 | -      |  |
| 11 | 815229.0 | 90.9 | 12 | 3 | 1615.0 | 1862.0 | 1601.0 |  |
| 12 | 170267.0 | 68.7 | 12 | 2 | 1377.0 | 1441.0 | -      |  |
| 13 | 377306.0 | 67.4 | 12 | 2 | 1872.0 | 1313.0 | -      |  |

Statistics 24 (ChirpCenter Frequency: 5285.6 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 628071.0         | 94.0             | 11          | 3                          | 1643.0     | 1748.0     | 1941.0     | 1                      |
| 1       | 853391.0         | 70.8             | 11          | 2                          | 1177.0     | 1201.0     | -          |                        |
| 2       | 156223.0         | 56.3             | 11          | 1                          | 1006.0     | -          | -          |                        |
| 3       | 378734.0         | 96.7             | 11          | 3                          | 1230.0     | 1163.0     | 1332.0     |                        |
| 4       | 601331.0         | 90.6             | 11          | 3                          | 1217.0     | 1582.0     | 1498.0     |                        |
| 5       | 825462.0         | 74.5             | 11          | 2                          | 1569.0     | 1281.0     | -          |                        |
| 6       | 128265.0         | 92.6             | 11          | 3                          | 1065.0     | 1669.0     | 1222.0     |                        |
| 7       | 351161.0         | 89.0             | 11          | 3                          | 1493.0     | 1135.0     | 1380.0     |                        |
| 8       | 573425.0         | 96.5             | 11          | 3                          | 1607.0     | 1822.0     | 1602.0     |                        |
| 9       | 798431.0         | 70.5             | 11          | 2                          | 1141.0     | 1178.0     | -          |                        |
| 10      | 100737.0         | 94.0             | 11          | 3                          | 1009.0     | 1629.0     | 1956.0     |                        |
| 11      | 324661.0         | 55.8             | 11          | 1                          | 1290.0     | -          | -          |                        |
| 12      | 546278.0         | 87.7             | 11          | 3                          | 1435.0     | 1963.0     | 1164.0     |                        |

Statistics 25 (ChirpCenter Frequency: 5288 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 1253842.0         | 68.6             | 5           | 2                          | 1306.0     | 1161.0     | -          | 1                      |
| 1       | 119486.0          | 83.1             | 5           | 2                          | 1420.0     | 1315.0     | -          |                        |
| 2       | 482958.0          | 60.9             | 5           | 1                          | 1687.0     | -          | -          |                        |
| 3       | 845641.0          | 77.7             | 5           | 2                          | 1776.0     | 1158.0     | -          |                        |
| 4       | 1208428.0         | 77.4             | 5           | 2                          | 1793.0     | 1510.0     | -          |                        |
| 5       | 74748.0           | 66.8             | 5           | 2                          | 1576.0     | 1323.0     | -          |                        |
| 6       | 438300.0          | 63.7             | 5           | 1                          | 1333.0     | -          | -          |                        |
| 7       | 800152.0          | 91.2             | 5           | 3                          | 1409.0     | 1681.0     | 1275.0     |                        |

Statistics 26 (ChirpCenter Frequency: 5283.6 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 545865.0          | 83.6             | 16          | 3                          | 1632.0     | 1195.0     | 1000.0     | 1                      |
| 1       | 14067.0           | 89.4             | 16          | 3                          | 1173.0     | 1627.0     | 1656.0     |                        |
| 2       | 184953.0          | 55.8             | 16          | 1                          | 1532.0     | -          | -          |                        |
| 3       | 353759.0          | 90.9             | 16          | 3                          | 1981.0     | 1554.0     | 1998.0     |                        |
| 4       | 526388.0          | 54.7             | 16          | 1                          | 1825.0     | -          | -          |                        |
| 5       | 694806.0          | 97.7             | 16          | 3                          | 1734.0     | 1202.0     | 1250.0     |                        |
| 6       | 163568.0          | 67.5             | 16          | 2                          | 1571.0     | 1434.0     | -          |                        |
| 7       | 333410.0          | 96.7             | 16          | 3                          | 1589.0     | 1469.0     | 1268.0     |                        |
| 8       | 504006.0          | 68.3             | 16          | 2                          | 1750.0     | 1954.0     | -          |                        |
| 9       | 675297.0          | 78.3             | 16          | 2                          | 1591.0     | 1082.0     | -          |                        |
| 10      | 142890.0          | 55.0             | 16          | 1                          | 1427.0     | -          | -          |                        |
| 11      | 312479.0          | 84.9             | 16          | 3                          | 1129.0     | 1936.0     | 1199.0     |                        |
| 12      | 482953.0          | 74.6             | 16          | 2                          | 1959.0     | 1856.0     | -          |                        |
| 13      | 655022.0          | 63.3             | 16          | 1                          | 1885.0     | -          | -          |                        |
| 14      | 121457.0          | 99.8             | 16          | 3                          | 1035.0     | 1515.0     | 1120.0     |                        |
| 15      | 292606.0          | 63.6             | 16          | 1                          | 1647.0     | -          | -          |                        |
| 16      | 461322.0          | 87.3             | 16          | 3                          | 1931.0     | 1051.0     | 1831.0     |                        |

Statistics 27 (ChirpCenter Frequency: 5282.4 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 565136.0          | 85.6             | 19          | 3                          | 1946.0     | 1078.0     | 1015.0     | 1                      |
| 1       | 89970.0           | 68.6             | 19          | 2                          | 1029.0     | 1780.0     | -          |                        |
| 2       | 243121.0          | 54.2             | 19          | 1                          | 1111.0     | -          | -          |                        |
| 3       | 396034.0          | 61.2             | 19          | 1                          | 1104.0     | -          | -          |                        |
| 4       | 546225.0          | 97.1             | 19          | 3                          | 1157.0     | 1969.0     | 1100.0     |                        |
| 5       | 70998.0           | 98.3             | 19          | 3                          | 1142.0     | 1699.0     | 1622.0     |                        |
| 6       | 224093.0          | 62.4             | 19          | 1                          | 1655.0     | -          | -          |                        |
| 7       | 376127.0          | 80.2             | 19          | 2                          | 1126.0     | 1769.0     | -          |                        |
| 8       | 527806.0          | 87.5             | 19          | 3                          | 1216.0     | 1448.0     | 1179.0     |                        |
| 9       | 52247.0           | 85.8             | 19          | 3                          | 1847.0     | 1348.0     | 1472.0     |                        |
| 10      | 204582.0          | 88.1             | 19          | 3                          | 1023.0     | 1124.0     | 1631.0     |                        |
| 11      | 357941.0          | 65.3             | 19          | 1                          | 1848.0     | -          | -          |                        |
| 12      | 510977.0          | 52.5             | 19          | 1                          | 1470.0     | -          | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 13 | 33698.0  | 52.3 | 19 | 1 | 1312.0 | -      | - |  |
| 14 | 186023.0 | 74.1 | 19 | 2 | 1915.0 | 1200.0 | - |  |
| 15 | 339327.0 | 54.9 | 19 | 1 | 1479.0 | -      | - |  |
| 16 | 491053.0 | 76.2 | 19 | 2 | 1376.0 | 1502.0 | - |  |
| 17 | 14858.0  | 60.4 | 19 | 1 | 1758.0 | -      | - |  |
| 18 | 167387.0 | 81.5 | 19 | 2 | 1491.0 | 1103.0 | - |  |

Statistics 28 (ChirpCenter Frequency: 5286 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | Pulse 2-3 Spacing (μS) | Pulse Start (mS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------------------|------------------|------------------------|
| 0       | 507709.0          | 50.5             | 10          | 1                          | 1857.0     | -                      | -                | 1                      |
| 1       | 750249.0          | 55.7             | 10          | 1                          | 1246.0     | -                      | -                |                        |
| 2       | 989003.0          | 85.8             | 10          | 3                          | 1774.0     | 1002.0                 | 1967.0           |                        |
| 3       | 235634.0          | 76.9             | 10          | 2                          | 1125.0     | 1474.0                 | -                |                        |
| 4       | 477675.0          | 75.1             | 10          | 2                          | 1254.0     | 1052.0                 | -                |                        |
| 5       | 718312.0          | 92.3             | 10          | 3                          | 1180.0     | 1486.0                 | 1492.0           |                        |
| 6       | 960895.0          | 78.1             | 10          | 2                          | 1301.0     | 1757.0                 | -                |                        |
| 7       | 205370.0          | 92.2             | 10          | 3                          | 1898.0     | 1252.0                 | 1713.0           |                        |
| 8       | 446940.0          | 89.0             | 10          | 3                          | 1260.0     | 1706.0                 | 1411.0           |                        |
| 9       | 689225.0          | 70.9             | 10          | 2                          | 1578.0     | 1620.0                 | -                |                        |
| 10      | 932305.0          | 63.1             | 10          | 1                          | 1782.0     | -                      | -                |                        |
| 11      | 176231.0          | 55.3             | 10          | 1                          | 1522.0     | -                      | -                |                        |

Statistics 29 (ChirpCenter Frequency: 5283.2 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | Pulse 2-3 Spacing (μS) | Pulse Start (mS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------------------|------------------|------------------------|
| 0       | 437880.0          | 97.3             | 17          | 3                          | 1319.0     | 1826.0                 | 1635.0           | 1                      |
| 1       | 598445.0          | 90.4             | 17          | 3                          | 1079.0     | 1986.0                 | 1674.0           |                        |
| 2       | 97088.0           | 91.8             | 17          | 3                          | 1563.0     | 1151.0                 | 1802.0           |                        |
| 3       | 257251.0          | 98.2             | 17          | 3                          | 1876.0     | 1977.0                 | 1766.0           |                        |
| 4       | 419893.0          | 59.5             | 17          | 1                          | 1952.0     | -                      | -                |                        |
| 5       | 580724.0          | 80.0             | 17          | 2                          | 1253.0     | 1137.0                 | -                |                        |
| 6       | 77366.0           | 86.5             | 17          | 3                          | 1054.0     | 1128.0                 | 1828.0           |                        |
| 7       | 238032.0          | 91.1             | 17          | 3                          | 1105.0     | 1599.0                 | 1442.0           |                        |
| 8       | 398605.0          | 93.5             | 17          | 3                          | 1867.0     | 1373.0                 | 1087.0           |                        |
| 9       | 562025.0          | 60.7             | 17          | 1                          | 1033.0     | -                      | -                |                        |
| 10      | 57684.0           | 67.2             | 17          | 2                          | 1288.0     | 1405.0                 | -                |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 11 | 219083.0 | 61.8 | 17 | 1 | 1585.0 | -      | -      |  |
| 12 | 379234.0 | 79.4 | 17 | 2 | 1933.0 | 1667.0 | -      |  |
| 13 | 540896.0 | 81.4 | 17 | 2 | 1096.0 | 1464.0 | -      |  |
| 14 | 37916.0  | 65.7 | 17 | 1 | 1496.0 | -      | -      |  |
| 15 | 198794.0 | 76.0 | 17 | 2 | 1733.0 | 1255.0 | -      |  |
| 16 | 359754.0 | 81.0 | 17 | 2 | 1326.0 | 1668.0 | -      |  |
| 17 | 437880.0 | 97.3 | 17 | 3 | 1319.0 | 1826.0 | 1635.0 |  |

11AC80MIMO-5290MHz:

Radar Type 5 Case1 Statistical Performance

Statistics 0 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 636185.0         | 77.8             | 13          | 2                          | 1665.0     | 1477.0     | -          | 1                      |
| 1       | 32674.0          | 51.9             | 13          | 1                          | 1074.0     | -          | -          |                        |
| 2       | 226294.0         | 63.8             | 13          | 1                          | 1584.0     | -          | -          |                        |
| 3       | 417976.0         | 96.6             | 13          | 3                          | 1682.0     | 1786.0     | 1843.0     |                        |
| 4       | 611152.0         | 85.9             | 13          | 3                          | 1795.0     | 1215.0     | 1729.0     |                        |
| 5       | 8789.0           | 73.7             | 13          | 2                          | 1198.0     | 1549.0     | -          |                        |
| 6       | 201917.0         | 77.2             | 13          | 2                          | 1837.0     | 1819.0     | -          |                        |
| 7       | 395530.0         | 68.4             | 13          | 2                          | 1587.0     | 1114.0     | -          |                        |
| 8       | 588564.0         | 76.7             | 13          | 2                          | 2000.0     | 1155.0     | -          |                        |
| 9       | 783794.0         | 53.2             | 13          | 1                          | 1147.0     | -          | -          |                        |
| 10      | 177933.0         | 85.7             | 13          | 3                          | 1433.0     | 1695.0     | 1394.0     |                        |
| 11      | 370624.0         | 94.3             | 13          | 3                          | 1670.0     | 1426.0     | 1935.0     |                        |
| 12      | 564893.0         | 77.6             | 13          | 2                          | 1294.0     | 1671.0     | -          |                        |
| 13      | 759583.0         | 65.7             | 13          | 1                          | 1512.0     | -          | -          |                        |
| 14      | 154262.0         | 93.5             | 13          | 3                          | 1444.0     | 1130.0     | 1468.0     |                        |

Statistics 1 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 653020.0         | 75.0             | 5           | 2                          | 1880.0     | 1527.0     | -          | 1                      |
| 1       | 1015643.0        | 99.4             | 5           | 3                          | 1401.0     | 1262.0     | 1257.0     |                        |
| 2       | 1379398.0        | 67.4             | 5           | 2                          | 1531.0     | 1403.0     | -          |                        |
| 3       | 245489.0         | 73.6             | 5           | 2                          | 1449.0     | 1041.0     | -          |                        |
| 4       | 609113.0         | 65.9             | 5           | 1                          | 1432.0     | -          | -          |                        |
| 5       | 970852.0         | 83.8             | 5           | 3                          | 1356.0     | 1292.0     | 1419.0     |                        |
| 6       | 1335913.0        | 65.5             | 5           | 1                          | 1543.0     | -          | -          |                        |
| 7       | 200406.0         | 98.6             | 5           | 3                          | 1548.0     | 1796.0     | 1728.0     |                        |

Statistics 2 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 409565.0         | 73.8             | 9           | 2                          | 1806.0     | 1538.0     | -          | 1                      |
| 1       | 673692.0         | 69.5             | 9           | 2                          | 1117.0     | 1649.0     | -          |                        |
| 2       | 938562.0         | 51.9             | 9           | 1                          | 1651.0     | -          | -          |                        |
| 3       | 113209.0         | 84.6             | 9           | 3                          | 1976.0     | 1032.0     | 1271.0     |                        |
| 4       | 376726.0         | 95.4             | 9           | 3                          | 1060.0     | 1903.0     | 1388.0     |                        |
| 5       | 641212.0         | 68.0             | 9           | 2                          | 1368.0     | 1351.0     | -          |                        |
| 6       | 903714.0         | 89.6             | 9           | 3                          | 1338.0     | 1514.0     | 1573.0     |                        |
| 7       | 80863.0          | 81.9             | 9           | 2                          | 1022.0     | 1689.0     | -          |                        |
| 8       | 344067.0         | 88.3             | 9           | 3                          | 1810.0     | 1330.0     | 1838.0     |                        |
| 9       | 609331.0         | 53.7             | 9           | 1                          | 1597.0     | -          | -          |                        |
| 10      | 871542.0         | 91.3             | 9           | 3                          | 1961.0     | 1106.0     | 1001.0     |                        |

Statistics 3 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 26541.0          | 68.1             | 19          | 2                          | 1339.0     | 1355.0     | -          | 1                      |
| 1       | 171821.0         | 58.7             | 19          | 1                          | 1251.0     | -          | -          |                        |
| 2       | 316229.0         | 75.3             | 19          | 2                          | 1136.0     | 1640.0     | -          |                        |
| 3       | 461864.0         | 56.4             | 19          | 1                          | 1753.0     | -          | -          |                        |
| 4       | 8677.0           | 99.7             | 19          | 3                          | 1196.0     | 1708.0     | 1159.0     |                        |
| 5       | 153995.0         | 57.7             | 19          | 1                          | 1013.0     | -          | -          |                        |
| 6       | 299238.0         | 59.5             | 19          | 1                          | 1072.0     | -          | -          |                        |
| 7       | 443177.0         | 80.0             | 19          | 2                          | 1482.0     | 1369.0     | -          |                        |
| 8       | 587671.0         | 82.0             | 19          | 2                          | 1993.0     | 1197.0     | -          |                        |
| 9       | 135674.0         | 82.8             | 19          | 2                          | 1883.0     | 1005.0     | -          |                        |
| 10      | 279928.0         | 88.0             | 19          | 3                          | 1061.0     | 1928.0     | 1101.0     |                        |
| 11      | 424279.0         | 93.2             | 19          | 3                          | 1207.0     | 1907.0     | 1223.0     |                        |
| 12      | 570132.0         | 70.4             | 19          | 2                          | 1526.0     | 1360.0     | -          |                        |
| 13      | 117439.0         | 95.3             | 19          | 3                          | 1171.0     | 1955.0     | 1775.0     |                        |
| 14      |                  |                  |             |                            |            |            |            |                        |
| 15      | 262502.0         | 81.9             | 19          | 2                          | 1690.0     | 1545.0     | -          |                        |
| 16      | 406573.0         | 98.5             | 19          | 3                          | 1975.0     | 1169.0     | 1062.0     |                        |
| 17      | 553328.0         | 65.0             | 19          | 1                          | 1767.0     | -          | -          |                        |
| 18      | 99799.0          | 85.4             | 19          | 3                          | 1011.0     | 1637.0     | 1425.0     |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 19 | 244095.0 | 91.6 | 19 | 3 | 1878.0 | 1445.0 | 1325.0 |  |
|----|----------|------|----|---|--------|--------|--------|--|

Statistics 4 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 629614.0         | 67.9             | 16          | 2                          | 1320.0     | 1133.0     | -          | 1                      |
| 1       | 96856.0          | 62.3             | 16          | 1                          | 1957.0     | -          | -          |                        |
| 2       | 267719.0         | 53.3             | 16          | 1                          | 1592.0     | -          | -          |                        |
| 3       | 436784.0         | 90.0             | 16          | 3                          | 1900.0     | 1153.0     | 1346.0     |                        |
| 4       | 608289.0         | 77.1             | 16          | 2                          | 1166.0     | 1646.0     | -          |                        |
| 5       | 75610.0          | 83.9             | 16          | 3                          | 1278.0     | 1232.0     | 1459.0     |                        |
| 6       | 245638.0         | 89.1             | 16          | 3                          | 1240.0     | 1384.0     | 1939.0     |                        |
| 7       | 416355.0         | 81.8             | 16          | 2                          | 1833.0     | 1676.0     | -          |                        |
| 8       | 588736.0         | 50.3             | 16          | 1                          | 1075.0     | -          | -          |                        |
| 9       | 54571.0          | 87.1             | 16          | 3                          | 1116.0     | 1996.0     | 1756.0     |                        |
| 10      | 225175.0         | 71.3             | 16          | 2                          | 1225.0     | 1815.0     | -          |                        |
| 11      | 394825.0         | 97.5             | 16          | 3                          | 1884.0     | 1465.0     | 1132.0     |                        |
| 12      | 565361.0         | 90.6             | 16          | 3                          | 1561.0     | 1040.0     | 1354.0     |                        |
| 13      | 33643.0          | 86.3             | 16          | 3                          | 1596.0     | 1183.0     | 1792.0     |                        |
| 14      | 203957.0         | 97.6             | 16          | 3                          | 1365.0     | 1073.0     | 1361.0     |                        |
| 15      | 373812.0         | 84.7             | 16          | 3                          | 1021.0     | 1718.0     | 1854.0     |                        |
| 16      | 544060.0         | 99.7             | 16          | 3                          | 1150.0     | 1244.0     | 1988.0     |                        |

Statistics 5 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 15438.0          | 92.9             | 12          | 3                          | 1085.0     | 1564.0     | 1407.0     | 1                      |
| 1       | 222486.0         | 67.7             | 12          | 2                          | 1744.0     | 1747.0     | -          |                        |
| 2       | 430731.0         | 65.8             | 12          | 1                          | 1092.0     | -          | -          |                        |
| 3       | 637784.0         | 56.3             | 12          | 1                          | 1851.0     | -          | -          |                        |
| 4       | 845342.0         | 53.7             | 12          | 1                          | 1727.0     | -          | -          |                        |
| 5       | 196720.0         | 83.5             | 12          | 3                          | 1679.0     | 1930.0     | 1025.0     |                        |
| 6       | 404955.0         | 65.8             | 12          | 1                          | 1519.0     | -          | -          |                        |
| 7       | 610711.0         | 85.9             | 12          | 3                          | 1134.0     | 1034.0     | 1808.0     |                        |
| 8       | 818057.0         | 76.3             | 12          | 2                          | 1606.0     | 1926.0     | -          |                        |
| 9       | 171459.0         | 81.5             | 12          | 2                          | 1891.0     | 1714.0     | -          |                        |
| 10      | 377969.0         | 89.4             | 12          | 3                          | 1310.0     | 1594.0     | 1827.0     |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 11 | 586875.0 | 63.4 | 12 | 1 | 1568.0 | -      | - |  |
| 12 | 792834.0 | 69.6 | 12 | 2 | 1307.0 | 1925.0 | - |  |
| 13 | 146044.0 | 74.5 | 12 | 2 | 1264.0 | 1846.0 | - |  |

Statistics 6 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 329022.0         | 96.6             | 13          | 3                          | 1182.0     | 1609.0     | 1581.0     | 1                      |
| 1       | 521718.0         | 96.7             | 13          | 3                          | 1829.0     | 1799.0     | 1154.0     |                        |
| 2       | 714222.0         | 86.5             | 13          | 3                          | 1923.0     | 1396.0     | 1865.0     |                        |
| 3       | 112450.0         | 73.3             | 13          | 2                          | 1908.0     | 1318.0     | -          |                        |
| 4       | 306283.0         | 55.8             | 13          | 1                          | 1688.0     | -          | -          |                        |
| 5       | 500239.0         | 55.4             | 13          | 1                          | 1145.0     | -          | -          |                        |
| 6       | 690932.0         | 85.3             | 13          | 3                          | 1336.0     | 1504.0     | 1820.0     |                        |
| 7       | 88645.0          | 79.4             | 13          | 2                          | 1344.0     | 1893.0     | -          |                        |
| 8       | 282508.0         | 65.7             | 13          | 1                          | 1476.0     | -          | -          |                        |
| 9       | 475842.0         | 68.6             | 13          | 2                          | 1008.0     | 1028.0     | -          |                        |
| 10      | 667887.0         | 77.7             | 13          | 2                          | 1972.0     | 1835.0     | -          |                        |
| 11      | 64845.0          | 79.6             | 13          | 2                          | 1882.0     | 1331.0     | -          |                        |
| 12      | 257755.0         | 94.9             | 13          | 3                          | 1830.0     | 1070.0     | 1349.0     |                        |
| 13      | 452335.0         | 61.4             | 13          | 1                          | 1451.0     | -          | -          |                        |
| 14      | 643395.0         | 90.6             | 13          | 3                          | 1233.0     | 1562.0     | 1887.0     |                        |
| 15      | 329022.0         | 96.6             | 13          | 3                          | 1182.0     | 1609.0     | 1581.0     |                        |

Statistics 7 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 51446.0          | 52.6             | 10          | 1                          | 1210.0     | -          | -          | 1                      |
| 1       | 292696.0         | 84.1             | 10          | 3                          | 1314.0     | 1725.0     | 1529.0     |                        |
| 2       | 533989.0         | 97.7             | 10          | 3                          | 1139.0     | 1868.0     | 1805.0     |                        |
| 3       | 775564.0         | 97.3             | 10          | 3                          | 1341.0     | 1446.0     | 1755.0     |                        |
| 4       | 21542.0          | 98.8             | 10          | 3                          | 1544.0     | 1386.0     | 1302.0     |                        |
| 5       | 263385.0         | 72.2             | 10          | 2                          | 1771.0     | 1184.0     | -          |                        |
| 6       | 505581.0         | 67.6             | 10          | 2                          | 1175.0     | 1027.0     | -          |                        |
| 7       | 747058.0         | 75.7             | 10          | 2                          | 1026.0     | 1871.0     | -          |                        |
| 8       | 989976.0         | 60.9             | 10          | 1                          | 1798.0     | -          | -          |                        |
| 9       | 234024.0         | 64.2             | 10          | 1                          | 1138.0     | -          | -          |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 10 | 475207.0 | 78.8 | 10 | 2 | 1784.0 | 1604.0 | -      |  |
| 11 | 715825.0 | 87.5 | 10 | 3 | 1511.0 | 1712.0 | 1683.0 |  |

Statistics 8 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 823112.0         | 54.1             | 13          | 1                          | 1415.0     | -          | -          | 1                      |
| 1       | 174965.0         | 50.7             | 13          | 1                          | 1221.0     | -          | -          |                        |
| 2       | 382216.0         | 52.3             | 13          | 1                          | 1974.0     | -          | -          |                        |
| 3       | 587395.0         | 99.8             | 13          | 3                          | 1558.0     | 1696.0     | 1949.0     |                        |
| 4       | 796897.0         | 68.4             | 13          | 2                          | 1014.0     | 1099.0     | -          |                        |
| 5       | 149042.0         | 80.8             | 13          | 2                          | 1736.0     | 1505.0     | -          |                        |
| 6       | 356750.0         | 62.5             | 13          | 1                          | 1778.0     | -          | -          |                        |
| 7       | 563824.0         | 74.8             | 13          | 2                          | 1149.0     | 1204.0     | -          |                        |
| 8       | 772314.0         | 50.8             | 13          | 1                          | 1049.0     | -          | -          |                        |
| 9       | 123796.0         | 54.0             | 13          | 1                          | 1417.0     | -          | -          |                        |
| 10      | 331215.0         | 63.0             | 13          | 1                          | 1730.0     | -          | -          |                        |
| 11      | 537402.0         | 91.8             | 13          | 3                          | 1143.0     | 1270.0     | 1347.0     |                        |
| 12      | 744805.0         | 79.3             | 13          | 2                          | 1274.0     | 1992.0     | -          |                        |
| 13      | 98172.0          | 64.3             | 13          | 1                          | 1937.0     | -          | -          |                        |

Statistics 9 (ChirpCenter Frequency: 5290 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 535615.0         | 63.4             | 6           | 1                          | 1043.0     | -          | -          | 1                      |
| 1       | 898668.0         | 52.0             | 6           | 1                          | 1863.0     | -          | -          |                        |
| 2       | 1259235.0        | 97.2             | 6           | 3                          | 1973.0     | 1605.0     | 1583.0     |                        |
| 3       | 127106.0         | 78.7             | 6           | 2                          | 1466.0     | 1743.0     | -          |                        |
| 4       | 490358.0         | 74.2             | 6           | 2                          | 1280.0     | 1219.0     | -          |                        |
| 5       | 852409.0         | 88.7             | 6           | 3                          | 1293.0     | 1934.0     | 1273.0     |                        |
| 6       | 1217152.0        | 54.3             | 6           | 1                          | 1991.0     | -          | -          |                        |
| 7       | 82296.0          | 95.4             | 6           | 3                          | 1580.0     | 1555.0     | 1791.0     |                        |

## Radar Type 5 Case2 Statistical Performance

Statistics 10 (ChirpCenter Frequency: 5256.4 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 209249.0         | 73.7             | 16          | 2                          | 1208.0     | 1497.0     | -          | 1                      |
| 1       | 378386.0         | 97.4             | 16          | 3                          | 1942.0     | 1754.0     | 1613.0     |                        |
| 2       | 548411.0         | 91.7             | 16          | 3                          | 1999.0     | 1702.0     | 1462.0     |                        |
| 3       | 17733.0          | 66.2             | 16          | 1                          | 1393.0     | -          | -          |                        |
| 4       | 187952.0         | 70.8             | 16          | 2                          | 1968.0     | 1821.0     | -          |                        |
| 5       | 359277.0         | 52.3             | 16          | 1                          | 1740.0     | -          | -          |                        |
| 6       | 528886.0         | 78.9             | 16          | 2                          | 1308.0     | 1984.0     | -          |                        |
| 7       | 700166.0         | 70.9             | 16          | 2                          | 1050.0     | 1358.0     | -          |                        |
| 8       | 167197.0         | 75.6             | 16          | 2                          | 1437.0     | 1430.0     | -          |                        |
| 9       | 338262.0         | 59.1             | 16          | 1                          | 1697.0     | -          | -          |                        |
| 10      | 508324.0         | 77.0             | 16          | 2                          | 1397.0     | 1304.0     | -          |                        |
| 11      | 678689.0         | 67.9             | 16          | 2                          | 1803.0     | 1083.0     | -          |                        |
| 12      | 146031.0         | 81.2             | 16          | 2                          | 1720.0     | 1932.0     | -          |                        |
| 13      | 316923.0         | 78.7             | 16          | 2                          | 1247.0     | 1121.0     | -          |                        |
| 14      | 488056.0         | 63.3             | 16          | 1                          | 1634.0     | -          | -          |                        |
| 15      | 657326.0         | 68.9             | 16          | 2                          | 1849.0     | 1423.0     | -          |                        |
| 16      | 125509.0         | 59.3             | 16          | 1                          | 1093.0     | -          | -          |                        |

Statistics 11 (ChirpCenter Frequency: 5257.6MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 263736.0         | 98.9             | 19          | 3                          | 1381.0     | 1680.0     | 1488.0     | 1                      |
| 1       | 416459.0         | 82.3             | 19          | 2                          | 1716.0     | 1855.0     | -          |                        |
| 2       | 567902.0         | 86.7             | 19          | 3                          | 1211.0     | 1400.0     | 1919.0     |                        |
| 3       | 92979.0          | 89.7             | 19          | 3                          | 1861.0     | 1068.0     | 1282.0     |                        |
| 4       | 245155.0         | 98.6             | 19          | 3                          | 1507.0     | 1194.0     | 1461.0     |                        |
| 5       | 397609.0         | 71.1             | 19          | 2                          | 1921.0     | 1789.0     | -          |                        |
| 6       | 551431.0         | 55.9             | 19          | 1                          | 1947.0     | -          | -          |                        |
| 7       | 74413.0          | 67.9             | 19          | 2                          | 1350.0     | 1372.0     | -          |                        |
| 8       | 226559.0         | 84.4             | 19          | 3                          | 1203.0     | 1107.0     | 1443.0     |                        |
| 9       | 380056.0         | 58.8             | 19          | 1                          | 1715.0     | -          | -          |                        |
| 10      | 533408.0         | 65.6             | 19          | 1                          | 1017.0     | -          | -          |                        |
| 11      | 55547.0          | 78.5             | 19          | 2                          | 1911.0     | 1704.0     | -          |                        |
| 12      | 207876.0         | 82.3             | 19          | 2                          | 1845.0     | 1686.0     | -          |                        |
| 13      | 359771.0         | 90.1             | 19          | 3                          | 1938.0     | 1071.0     | 1266.0     |                        |
| 14      | 511297.0         | 90.2             | 19          | 3                          | 1989.0     | 1089.0     | 1950.0     |                        |
| 15      | 36803.0          | 83.1             | 19          | 2                          | 1943.0     | 1406.0     | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 16 | 189652.0 | 58.8 | 19 | 1 | 1742.0 | -      | - |  |
| 17 | 341809.0 | 77.0 | 19 | 2 | 1187.0 | 1657.0 | - |  |
| 18 | 495737.0 | 55.0 | 19 | 1 | 1012.0 | -      | - |  |

Statistics 12 (ChirpCenter Frequency: 5255.2MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 22911.0          | 58.1             | 13          | 1                          | 1929.0     | -          | -          | 1                      |
| 1       | 216473.0         | 52.1             | 13          | 1                          | 1910.0     | -          | -          |                        |
| 2       | 410004.0         | 59.9             | 13          | 1                          | 1971.0     | -          | -          |                        |
| 3       | 603671.0         | 60.2             | 13          | 1                          | 1812.0     | -          | -          |                        |
| 4       | 794160.0         | 95.9             | 13          | 3                          | 1399.0     | 1906.0     | 1608.0     |                        |
| 5       | 192251.0         | 79.9             | 13          | 2                          | 1626.0     | 1859.0     | -          |                        |
| 6       | 385590.0         | 78.5             | 13          | 2                          | 1238.0     | 1917.0     | -          |                        |
| 7       | 579862.0         | 53.8             | 13          | 1                          | 1763.0     | -          | -          |                        |
| 8       | 773423.0         | 64.7             | 13          | 1                          | 1800.0     | -          | -          |                        |
| 9       | 168898.0         | 61.4             | 13          | 1                          | 1390.0     | -          | -          |                        |
| 10      | 361606.0         | 83.2             | 13          | 2                          | 1692.0     | 1858.0     | -          |                        |
| 11      | 553866.0         | 84.7             | 13          | 3                          | 1533.0     | 1677.0     | 1638.0     |                        |
| 12      | 747241.0         | 88.7             | 13          | 3                          | 1703.0     | 1528.0     | 1058.0     |                        |
| 13      | 144710.0         | 78.3             | 13          | 2                          | 1258.0     | 1951.0     | -          |                        |
| 14      | 337856.0         | 69.3             | 13          | 2                          | 1731.0     | 1717.0     | -          |                        |

Statistics 13 (ChirpCenter Frequency: 5254MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 664275.0         | 75.3             | 10          | 2                          | 1994.0     | 1612.0     | -          | 1                      |
| 1       | 907886.0         | 56.3             | 10          | 1                          | 1456.0     | -          | -          |                        |
| 2       | 151316.0         | 67.7             | 10          | 2                          | 1617.0     | 1185.0     | -          |                        |
| 3       | 393746.0         | 55.6             | 10          | 1                          | 1337.0     | -          | -          |                        |
| 4       | 635093.0         | 75.2             | 10          | 2                          | 1421.0     | 1267.0     | -          |                        |
| 5       | 876993.0         | 76.3             | 10          | 2                          | 1359.0     | 1305.0     | -          |                        |
| 6       | 121278.0         | 85.7             | 10          | 3                          | 1547.0     | 1362.0     | 1924.0     |                        |
| 7       | 362696.0         | 98.4             | 10          | 3                          | 1873.0     | 1550.0     | 1249.0     |                        |
| 8       | 604342.0         | 86.4             | 10          | 3                          | 1779.0     | 1439.0     | 1046.0     |                        |
| 9       | 846453.0         | 93.6             | 10          | 3                          | 1059.0     | 1031.0     | 1452.0     |                        |
| 10      | 91871.0          | 63.3             | 10          | 1                          | 1328.0     | -          | -          |                        |
| 11      | 333050.0         | 92.4             | 10          | 3                          | 1412.0     | 1673.0     | 1322.0     |                        |

Statistics14 (ChirpCenter Frequency: 5257.2 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 361323.0         | 93.3             | 18          | 3                          | 1983.0     | 1912.0     | 1535.0     | 1                      |
| 1       | 515261.0         | 69.1             | 18          | 2                          | 1102.0     | 1794.0     | -          |                        |
| 2       | 39025.0          | 86.9             | 18          | 3                          | 1044.0     | 1152.0     | 1148.0     |                        |
| 3       | 190900.0         | 84.9             | 18          | 3                          | 1894.0     | 1948.0     | 1118.0     |                        |
| 4       | 343941.0         | 72.3             | 18          | 2                          | 1094.0     | 1916.0     | -          |                        |
| 5       | 497624.0         | 51.7             | 18          | 1                          | 1447.0     | -          | -          |                        |
| 6       | 20319.0          | 58.3             | 18          | 1                          | 1429.0     | -          | -          |                        |
| 7       | 172999.0         | 60.8             | 18          | 1                          | 1979.0     | -          | -          |                        |
| 8       | 325872.0         | 57.1             | 18          | 1                          | 1641.0     | -          | -          |                        |
| 9       | 475841.0         | 88.9             | 18          | 3                          | 1886.0     | 1964.0     | 1489.0     |                        |
| 10      | 1489.0           | 72.0             | 18          | 2                          | 1909.0     | 1297.0     | -          |                        |
| 11      | 153647.0         | 90.9             | 18          | 3                          | 1261.0     | 1566.0     | 1370.0     |                        |
| 12      | 307096.0         | 59.8             | 18          | 1                          | 1552.0     | -          | -          |                        |
| 13      | 458804.0         | 70.0             | 18          | 2                          | 1759.0     | 1291.0     | -          |                        |
| 14      | 610798.0         | 67.2             | 18          | 2                          | 1625.0     | 1881.0     | -          |                        |
| 15      | 134759.0         | 91.2             | 18          | 3                          | 1382.0     | 1832.0     | 1661.0     |                        |
| 16      | 288306.0         | 56.5             | 18          | 1                          | 1483.0     | -          | -          |                        |
| 17      | 441296.0         | 51.2             | 18          | 1                          | 1237.0     | -          | -          |                        |
| 18      | 592780.0         | 74.1             | 18          | 2                          | 1471.0     | 1245.0     | -          |                        |

Statistics 15 (ChirpCenter Frequency: 5254.8 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 158286.0         | 76.9             | 12          | 2                          | 1110.0     | 1140.0     | -          | 1                      |
| 1       | 366024.0         | 50.2             | 12          | 1                          | 1316.0     | -          | -          |                        |
| 2       | 573452.0         | 62.9             | 12          | 1                          | 1520.0     | -          | -          |                        |
| 3       | 780619.0         | 64.7             | 12          | 1                          | 1902.0     | -          | -          |                        |
| 4       | 132455.0         | 83.8             | 12          | 3                          | 1410.0     | 1097.0     | 1621.0     |                        |
| 5       | 340207.0         | 65.4             | 12          | 1                          | 1944.0     | -          | -          |                        |
| 6       | 548208.0         | 53.2             | 12          | 1                          | 1024.0     | -          | -          |                        |
| 7       | 755333.0         | 51.7             | 12          | 1                          | 1603.0     | -          | -          |                        |
| 8       | 107117.0         | 78.7             | 12          | 2                          | 1804.0     | 1168.0     | -          |                        |
| 9       | 314500.0         | 72.4             | 12          | 2                          | 1030.0     | 1343.0     | -          |                        |
| 10      | 522447.0         | 53.8             | 12          | 1                          | 1327.0     | -          | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 11 | 728517.0 | 73.6 | 12 | 2 | 1524.0 | 1553.0 | - |  |
| 12 | 81611.0  | 66.7 | 12 | 2 | 1722.0 | 1122.0 | - |  |
| 13 | 288948.0 | 82.5 | 12 | 2 | 1404.0 | 1019.0 | - |  |

Statistics 16 (ChirpCenter Frequency: 5258 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 345766.0         | 87.6             | 20          | 3                          | 1565.0     | 1055.0     | 1840.0     | 1                      |
| 1       | 490019.0         | 85.2             | 20          | 3                          | 1735.0     | 1541.0     | 1408.0     |                        |
| 2       | 39073.0          | 84.8             | 20          | 3                          | 1534.0     | 1889.0     | 1463.0     |                        |
| 3       | 183923.0         | 77.9             | 20          | 2                          | 1749.0     | 1460.0     | -          |                        |
| 4       | 328777.0         | 76.5             | 20          | 2                          | 1518.0     | 1485.0     | -          |                        |
| 5       | 474728.0         | 60.9             | 20          | 1                          | 1540.0     | -          | -          |                        |
| 6       | 21394.0          | 83.0             | 20          | 2                          | 1080.0     | 1010.0     | -          |                        |
| 7       | 165992.0         | 80.4             | 20          | 2                          | 1824.0     | 1752.0     | -          |                        |
| 8       | 310973.0         | 67.5             | 20          | 2                          | 1764.0     | 1181.0     | -          |                        |
| 9       | 456884.0         | 62.1             | 20          | 1                          | 1495.0     | -          | -          |                        |
| 10      | 3515.0           | 86.4             | 20          | 3                          | 1773.0     | 1966.0     | 1263.0     |                        |
| 11      | 147928.0         | 84.3             | 20          | 3                          | 1593.0     | 1188.0     | 1788.0     |                        |
| 12      | 293225.0         | 76.9             | 20          | 2                          | 1226.0     | 1537.0     | -          |                        |
| 13      | 436922.0         | 95.8             | 20          | 3                          | 1192.0     | 1298.0     | 1844.0     |                        |
| 14      | 584015.0         | 55.2             | 20          | 1                          | 1644.0     | -          | -          |                        |
| 15      | 130832.0         | 59.0             | 20          | 1                          | 1402.0     | -          | -          |                        |
| 16      | 274684.0         | 94.5             | 20          | 3                          | 1296.0     | 1700.0     | 1283.0     |                        |
| 17      | 418579.0         | 91.9             | 20          | 3                          | 1970.0     | 1978.0     | 1165.0     |                        |
| 18      | 563464.0         | 85.2             | 20          | 3                          | 1732.0     | 1551.0     | 1189.0     |                        |
| 19      | 112787.0         | 69.5             | 20          | 2                          | 1038.0     | 1224.0     | -          |                        |

Statistics 17 (ChirpCenter Frequency: 5254 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 429224.0         | 86.4             | 10          | 3                          | 1259.0     | 1918.0     | 1455.0     | 1                      |
| 1       | 670241.0         | 92.2             | 10          | 3                          | 1598.0     | 1719.0     | 1895.0     |                        |
| 2       | 912880.0         | 80.4             | 10          | 2                          | 1816.0     | 1899.0     | -          |                        |
| 3       | 158603.0         | 54.3             | 10          | 1                          | 1335.0     | -          | -          |                        |
| 4       | 400824.0         | 53.1             | 10          | 1                          | 1303.0     | -          | -          |                        |
| 5       | 641915.0         | 69.4             | 10          | 2                          | 1503.0     | 1546.0     | -          |                        |

|    |          |       |    |   |        |        |        |  |
|----|----------|-------|----|---|--------|--------|--------|--|
| 6  | 883823.0 | 69.1  | 10 | 2 | 1279.0 | 1639.0 | -      |  |
| 7  | 128373.0 | 100.0 | 10 | 3 | 1375.0 | 1438.0 | 1595.0 |  |
| 8  | 370379.0 | 79.6  | 10 | 2 | 1239.0 | 1705.0 | -      |  |
| 9  | 611194.0 | 88.4  | 10 | 3 | 1374.0 | 1579.0 | 1623.0 |  |
| 10 | 855665.0 | 53.3  | 10 | 1 | 1016.0 | -      | -      |  |
| 11 | 98897.0  | 65.3  | 10 | 1 | 1709.0 | -      | -      |  |

Statistics 18 (ChirpCenter Frequency: 5254.8 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 292143.0         | 55.3             | 12          | 1                          | 1920.0     | -          | -          | 1                      |
| 1       | 499633.0         | 58.3             | 12          | 1                          | 1797.0     | -          | -          |                        |
| 2       | 706377.0         | 72.3             | 12          | 2                          | 1610.0     | 1039.0     | -          |                        |
| 3       | 58989.0          | 84.8             | 12          | 3                          | 1131.0     | 1761.0     | 1721.0     |                        |
| 4       | 266161.0         | 82.5             | 12          | 2                          | 1875.0     | 1431.0     | -          |                        |
| 5       | 474469.0         | 63.3             | 12          | 1                          | 1095.0     | -          | -          |                        |
| 6       | 680544.0         | 80.0             | 12          | 2                          | 1119.0     | 1913.0     | -          |                        |
| 7       | 33519.0          | 90.3             | 12          | 3                          | 1660.0     | 1853.0     | 1123.0     |                        |
| 8       | 240319.0         | 91.1             | 12          | 3                          | 1539.0     | 1783.0     | 1172.0     |                        |
| 9       | 447400.0         | 96.6             | 12          | 3                          | 1525.0     | 1036.0     | 1385.0     |                        |
| 10      | 654516.0         | 82.7             | 12          | 2                          | 1710.0     | 1990.0     | -          |                        |
| 11      | 8083.0           | 50.7             | 12          | 1                          | 1234.0     | -          | -          |                        |
| 12      | 215435.0         | 78.4             | 12          | 2                          | 1047.0     | 1109.0     | -          |                        |
| 13      | 421325.0         | 99.5             | 12          | 3                          | 1299.0     | 1965.0     | 1869.0     |                        |

Statistics 19 (ChirpCenter Frequency: 5254 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 733725.0          | 88.6             | 10          | 3                          | 1501.0     | 1067.0     | 1927.0     | 1                      |
| 1       | 977882.0          | 57.4             | 10          | 1                          | 1723.0     | -          | -          |                        |
| 2       | 221197.0          | 96.6             | 10          | 3                          | 1086.0     | 1658.0     | 1324.0     |                        |
| 3       | 462915.0          | 69.7             | 10          | 2                          | 1751.0     | 1945.0     | -          |                        |
| 4       | 705071.0          | 77.9             | 10          | 2                          | 1642.0     | 1317.0     | -          |                        |
| 5       | 947923.0          | 62.0             | 10          | 1                          | 1866.0     | -          | -          |                        |
| 6       | 191373.0          | 88.4             | 10          | 3                          | 1997.0     | 1077.0     | 1366.0     |                        |
| 7       | 432561.0          | 97.3             | 10          | 3                          | 1790.0     | 1896.0     | 1367.0     |                        |
| 8       | 674004.0          | 96.2             | 10          | 3                          | 1391.0     | 1787.0     | 1672.0     |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 9  | 915842.0 | 95.4 | 10 | 3 | 1020.0 | 1892.0 | 1414.0 |  |
| 10 | 162176.0 | 54.8 | 10 | 1 | 1084.0 | -      | -      |  |
| 11 | 403553.0 | 80.4 | 10 | 2 | 1850.0 | 1436.0 | -      |  |

## Radar Type 5 Case3 Statistical Performance

## Statistics 20 (ChirpCenter Frequency:5324MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 483470.0          | 74.7             | 15          | 2                          | 1619.0     | 1611.0     | -          | 1                      |
| 1       | 666072.0          | 57.1             | 15          | 1                          | 1560.0     | -          | -          |                        |
| 2       | 98810.0           | 91.9             | 15          | 3                          | 1392.0     | 1475.0     | 1276.0     |                        |
| 3       | 279914.0          | 83.1             | 15          | 2                          | 1809.0     | 1772.0     | -          |                        |
| 4       | 462536.0          | 50.7             | 15          | 1                          | 1003.0     | -          | -          |                        |
| 5       | 642324.0          | 79.2             | 15          | 2                          | 1574.0     | 1600.0     | -          |                        |
| 6       | 76831.0           | 58.7             | 15          | 1                          | 1186.0     | -          | -          |                        |
| 7       | 257785.0          | 71.0             | 15          | 2                          | 1521.0     | 1567.0     | -          |                        |
| 8       | 438554.0          | 79.0             | 15          | 2                          | 1777.0     | 1960.0     | -          |                        |
| 9       | 620397.0          | 68.5             | 15          | 2                          | 1284.0     | 1428.0     | -          |                        |
| 10      | 54310.0           | 73.5             | 15          | 2                          | 1904.0     | 1352.0     | -          |                        |
| 11      | 235506.0          | 70.5             | 15          | 2                          | 1864.0     | 1115.0     | -          |                        |
| 12      | 417036.0          | 76.6             | 15          | 2                          | 1045.0     | 1300.0     | -          |                        |
| 13      | 597974.0          | 81.2             | 15          | 2                          | 1160.0     | 1675.0     | -          |                        |
| 14      | 32086.0           | 61.8             | 15          | 1                          | 1277.0     | -          | -          |                        |
| 15      | 212751.0          | 94.9             | 15          | 3                          | 1450.0     | 1206.0     | 1860.0     |                        |

## Statistics 21 (ChirpCenter Frequency: 5326.4 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 526149.0          | 78.5             | 9           | 2                          | 1653.0     | 1698.0     | -          | 1                      |
| 1       | 767135.0          | 89.8             | 9           | 3                          | 1174.0     | 1962.0     | 1167.0     |                        |
| 2       | 12955.0           | 59.4             | 9           | 1                          | 1982.0     | -          | -          |                        |
| 3       | 254612.0          | 79.6             | 9           | 2                          | 1633.0     | 1890.0     | -          |                        |
| 4       | 496588.0          | 76.0             | 9           | 2                          | 1112.0     | 1811.0     | -          |                        |
| 5       | 739728.0          | 53.6             | 9           | 1                          | 1144.0     | -          | -          |                        |
| 6       | 980872.0          | 80.9             | 9           | 2                          | 1220.0     | 1053.0     | -          |                        |
| 7       | 225249.0          | 61.6             | 9           | 1                          | 1724.0     | -          | -          |                        |
| 8       | 467279.0          | 53.4             | 9           | 1                          | 1901.0     | -          | -          |                        |
| 9       | 709720.0          | 59.9             | 9           | 1                          | 1379.0     | -          | -          |                        |

|    |          |      |   |   |        |        |        |  |
|----|----------|------|---|---|--------|--------|--------|--|
| 10 | 951847.0 | 60.4 | 9 | 1 | 1453.0 | -      | -      |  |
| 11 | 194839.0 | 91.4 | 9 | 3 | 1768.0 | 1726.0 | 1227.0 |  |

Statistics 22 (ChirpCenter Frequency: 5322MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 261858.0          | 77.0             | 20          | 2                          | 1191.0     | 1363.0     | -          | 1                      |
| 1       | 407646.0          | 58.1             | 20          | 1                          | 1248.0     | -          | -          |                        |
| 2       | 552319.0          | 62.1             | 20          | 1                          | 1836.0     | -          | -          |                        |
| 3       | 99107.0           | 76.9             | 20          | 2                          | 1334.0     | 1236.0     | -          |                        |
| 4       | 243514.0          | 80.0             | 20          | 2                          | 1914.0     | 1852.0     | -          |                        |
| 5       | 389464.0          | 52.0             | 20          | 1                          | 1701.0     | -          | -          |                        |
| 6       | 531093.0          | 88.6             | 20          | 3                          | 1693.0     | 1995.0     | 1905.0     |                        |
| 7       | 81159.0           | 72.9             | 20          | 2                          | 1922.0     | 1387.0     | -          |                        |
| 8       | 225245.0          | 98.5             | 20          | 3                          | 1839.0     | 1746.0     | 1389.0     |                        |
| 9       | 371906.0          | 57.9             | 20          | 1                          | 1193.0     | -          | -          |                        |
| 10      | 514197.0          | 95.9             | 20          | 3                          | 1659.0     | 1870.0     | 1066.0     |                        |
| 11      | 63561.0           | 53.5             | 20          | 1                          | 1162.0     | -          | -          |                        |
| 12      | 207510.0          | 92.0             | 20          | 3                          | 1745.0     | 1654.0     | 1458.0     |                        |
| 13      | 353638.0          | 57.3             | 20          | 1                          | 1834.0     | -          | -          |                        |
| 14      | 497515.0          | 70.5             | 20          | 2                          | 1684.0     | 1586.0     | -          |                        |
| 15      | 45553.0           | 70.0             | 20          | 2                          | 1042.0     | 1664.0     | -          |                        |
| 16      | 189821.0          | 84.0             | 20          | 3                          | 1765.0     | 1630.0     | 1176.0     |                        |
| 17      | 335330.0          | 76.1             | 20          | 2                          | 1557.0     | 1057.0     | -          |                        |
| 18      | 478825.0          | 93.2             | 20          | 3                          | 1985.0     | 1018.0     | 1340.0     |                        |
| 19      | 27594.0           | 96.8             | 20          | 3                          | 1760.0     | 1614.0     | 1817.0     |                        |

Statistics 23 (ChirpCenter Frequency:5325.2MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 247117.0         | 50.1             | 12          | 1                          | 1841.0     | -          | -          | 1                      |
| 1       | 453362.0         | 93.5             | 12          | 3                          | 1590.0     | 1081.0     | 1413.0     |                        |
| 2       | 660875.0         | 68.8             | 12          | 2                          | 1707.0     | 1577.0     | -          |                        |
| 3       | 14140.0          | 56.3             | 12          | 1                          | 1056.0     | -          | -          |                        |
| 4       | 220734.0         | 86.0             | 12          | 3                          | 1953.0     | 1108.0     | 1987.0     |                        |
| 5       | 428367.0         | 75.2             | 12          | 2                          | 1572.0     | 1536.0     | -          |                        |
| 6       | 636681.0         | 54.4             | 12          | 1                          | 1517.0     | -          | -          |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 7  | 843157.0 | 71.1 | 12 | 2 | 1329.0 | 1243.0 | -      |  |
| 8  | 195585.0 | 76.2 | 12 | 2 | 1940.0 | 1770.0 | -      |  |
| 9  | 403231.0 | 80.2 | 12 | 2 | 1098.0 | 1209.0 | -      |  |
| 10 | 610202.0 | 79.7 | 12 | 2 | 1588.0 | 1214.0 | -      |  |
| 11 | 815229.0 | 90.9 | 12 | 3 | 1615.0 | 1862.0 | 1601.0 |  |
| 12 | 170267.0 | 68.7 | 12 | 2 | 1377.0 | 1441.0 | -      |  |
| 13 | 377306.0 | 67.4 | 12 | 2 | 1872.0 | 1313.0 | -      |  |

Statistics 24 (ChirpCenter Frequency: 5325.6 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 628071.0         | 94.0             | 11          | 3                          | 1643.0     | 1748.0     | 1941.0     | 1                      |
| 1       | 853391.0         | 70.8             | 11          | 2                          | 1177.0     | 1201.0     | -          |                        |
| 2       | 156223.0         | 56.3             | 11          | 1                          | 1006.0     | -          | -          |                        |
| 3       | 378734.0         | 96.7             | 11          | 3                          | 1230.0     | 1163.0     | 1332.0     |                        |
| 4       | 601331.0         | 90.6             | 11          | 3                          | 1217.0     | 1582.0     | 1498.0     |                        |
| 5       | 825462.0         | 74.5             | 11          | 2                          | 1569.0     | 1281.0     | -          |                        |
| 6       | 128265.0         | 92.6             | 11          | 3                          | 1065.0     | 1669.0     | 1222.0     |                        |
| 7       | 351161.0         | 89.0             | 11          | 3                          | 1493.0     | 1135.0     | 1380.0     |                        |
| 8       | 573425.0         | 96.5             | 11          | 3                          | 1607.0     | 1822.0     | 1602.0     |                        |
| 9       | 798431.0         | 70.5             | 11          | 2                          | 1141.0     | 1178.0     | -          |                        |
| 10      | 100737.0         | 94.0             | 11          | 3                          | 1009.0     | 1629.0     | 1956.0     |                        |
| 11      | 324661.0         | 55.8             | 11          | 1                          | 1290.0     | -          | -          |                        |
| 12      | 546278.0         | 87.7             | 11          | 3                          | 1435.0     | 1963.0     | 1164.0     |                        |

Statistics 25 (ChirpCenter Frequency: 5328 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 1253842.0         | 68.6             | 5           | 2                          | 1306.0     | 1161.0     | -          | 1                      |
| 1       | 119486.0          | 83.1             | 5           | 2                          | 1420.0     | 1315.0     | -          |                        |
| 2       | 482958.0          | 60.9             | 5           | 1                          | 1687.0     | -          | -          |                        |
| 3       | 845641.0          | 77.7             | 5           | 2                          | 1776.0     | 1158.0     | -          |                        |
| 4       | 1208428.0         | 77.4             | 5           | 2                          | 1793.0     | 1510.0     | -          |                        |
| 5       | 74748.0           | 66.8             | 5           | 2                          | 1576.0     | 1323.0     | -          |                        |
| 6       | 438300.0          | 63.7             | 5           | 1                          | 1333.0     | -          | -          |                        |
| 7       | 800152.0          | 91.2             | 5           | 3                          | 1409.0     | 1681.0     | 1275.0     |                        |

Statistics 26 (ChirpCenter Frequency: 5323.6 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 545865.0          | 83.6             | 16          | 3                          | 1632.0     | 1195.0     | 1000.0     | 1                      |
| 1       | 14067.0           | 89.4             | 16          | 3                          | 1173.0     | 1627.0     | 1656.0     |                        |
| 2       | 184953.0          | 55.8             | 16          | 1                          | 1532.0     | -          | -          |                        |
| 3       | 353759.0          | 90.9             | 16          | 3                          | 1981.0     | 1554.0     | 1998.0     |                        |
| 4       | 526388.0          | 54.7             | 16          | 1                          | 1825.0     | -          | -          |                        |
| 5       | 694806.0          | 97.7             | 16          | 3                          | 1734.0     | 1202.0     | 1250.0     |                        |
| 6       | 163568.0          | 67.5             | 16          | 2                          | 1571.0     | 1434.0     | -          |                        |
| 7       | 333410.0          | 96.7             | 16          | 3                          | 1589.0     | 1469.0     | 1268.0     |                        |
| 8       | 504006.0          | 68.3             | 16          | 2                          | 1750.0     | 1954.0     | -          |                        |
| 9       | 675297.0          | 78.3             | 16          | 2                          | 1591.0     | 1082.0     | -          |                        |
| 10      | 142890.0          | 55.0             | 16          | 1                          | 1427.0     | -          | -          |                        |
| 11      | 312479.0          | 84.9             | 16          | 3                          | 1129.0     | 1936.0     | 1199.0     |                        |
| 12      | 482953.0          | 74.6             | 16          | 2                          | 1959.0     | 1856.0     | -          |                        |
| 13      | 655022.0          | 63.3             | 16          | 1                          | 1885.0     | -          | -          |                        |
| 14      | 121457.0          | 99.8             | 16          | 3                          | 1035.0     | 1515.0     | 1120.0     |                        |
| 15      | 292606.0          | 63.6             | 16          | 1                          | 1647.0     | -          | -          |                        |
| 16      | 461322.0          | 87.3             | 16          | 3                          | 1931.0     | 1051.0     | 1831.0     |                        |

Statistics 27 (ChirpCenter Frequency: 5322.4 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 565136.0          | 85.6             | 19          | 3                          | 1946.0     | 1078.0     | 1015.0     | 1                      |
| 1       | 89970.0           | 68.6             | 19          | 2                          | 1029.0     | 1780.0     | -          |                        |
| 2       | 243121.0          | 54.2             | 19          | 1                          | 1111.0     | -          | -          |                        |
| 3       | 396034.0          | 61.2             | 19          | 1                          | 1104.0     | -          | -          |                        |
| 4       | 546225.0          | 97.1             | 19          | 3                          | 1157.0     | 1969.0     | 1100.0     |                        |
| 5       | 70998.0           | 98.3             | 19          | 3                          | 1142.0     | 1699.0     | 1622.0     |                        |
| 6       | 224093.0          | 62.4             | 19          | 1                          | 1655.0     | -          | -          |                        |
| 7       | 376127.0          | 80.2             | 19          | 2                          | 1126.0     | 1769.0     | -          |                        |
| 8       | 527806.0          | 87.5             | 19          | 3                          | 1216.0     | 1448.0     | 1179.0     |                        |
| 9       | 52247.0           | 85.8             | 19          | 3                          | 1847.0     | 1348.0     | 1472.0     |                        |
| 10      | 204582.0          | 88.1             | 19          | 3                          | 1023.0     | 1124.0     | 1631.0     |                        |
| 11      | 357941.0          | 65.3             | 19          | 1                          | 1848.0     | -          | -          |                        |
| 12      | 510977.0          | 52.5             | 19          | 1                          | 1470.0     | -          | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 13 | 33698.0  | 52.3 | 19 | 1 | 1312.0 | -      | - |  |
| 14 | 186023.0 | 74.1 | 19 | 2 | 1915.0 | 1200.0 | - |  |
| 15 | 339327.0 | 54.9 | 19 | 1 | 1479.0 | -      | - |  |
| 16 | 491053.0 | 76.2 | 19 | 2 | 1376.0 | 1502.0 | - |  |
| 17 | 14858.0  | 60.4 | 19 | 1 | 1758.0 | -      | - |  |
| 18 | 167387.0 | 81.5 | 19 | 2 | 1491.0 | 1103.0 | - |  |

Statistics 28 (ChirpCenter Frequency: 5326 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | Pulse 2-3 Spacing (μS) | Pulse Start (mS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------------------|------------------|------------------------|
| 0       | 507709.0          | 50.5             | 10          | 1                          | 1857.0     | -                      | -                | 1                      |
| 1       | 750249.0          | 55.7             | 10          | 1                          | 1246.0     | -                      | -                |                        |
| 2       | 989003.0          | 85.8             | 10          | 3                          | 1774.0     | 1002.0                 | 1967.0           |                        |
| 3       | 235634.0          | 76.9             | 10          | 2                          | 1125.0     | 1474.0                 | -                |                        |
| 4       | 477675.0          | 75.1             | 10          | 2                          | 1254.0     | 1052.0                 | -                |                        |
| 5       | 718312.0          | 92.3             | 10          | 3                          | 1180.0     | 1486.0                 | 1492.0           |                        |
| 6       | 960895.0          | 78.1             | 10          | 2                          | 1301.0     | 1757.0                 | -                |                        |
| 7       | 205370.0          | 92.2             | 10          | 3                          | 1898.0     | 1252.0                 | 1713.0           |                        |
| 8       | 446940.0          | 89.0             | 10          | 3                          | 1260.0     | 1706.0                 | 1411.0           |                        |
| 9       | 689225.0          | 70.9             | 10          | 2                          | 1578.0     | 1620.0                 | -                |                        |
| 10      | 932305.0          | 63.1             | 10          | 1                          | 1782.0     | -                      | -                |                        |
| 11      | 176231.0          | 55.3             | 10          | 1                          | 1522.0     | -                      | -                |                        |

Statistics 29 (ChirpCenter Frequency: 5323.2 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | Pulse 2-3 Spacing (μS) | Pulse Start (mS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------------------|------------------|------------------------|
| 0       | 437880.0          | 97.3             | 17          | 3                          | 1319.0     | 1826.0                 | 1635.0           | 1                      |
| 1       | 598445.0          | 90.4             | 17          | 3                          | 1079.0     | 1986.0                 | 1674.0           |                        |
| 2       | 97088.0           | 91.8             | 17          | 3                          | 1563.0     | 1151.0                 | 1802.0           |                        |
| 3       | 257251.0          | 98.2             | 17          | 3                          | 1876.0     | 1977.0                 | 1766.0           |                        |
| 4       | 419893.0          | 59.5             | 17          | 1                          | 1952.0     | -                      | -                |                        |
| 5       | 580724.0          | 80.0             | 17          | 2                          | 1253.0     | 1137.0                 | -                |                        |
| 6       | 77366.0           | 86.5             | 17          | 3                          | 1054.0     | 1128.0                 | 1828.0           |                        |
| 7       | 238032.0          | 91.1             | 17          | 3                          | 1105.0     | 1599.0                 | 1442.0           |                        |
| 8       | 398605.0          | 93.5             | 17          | 3                          | 1867.0     | 1373.0                 | 1087.0           |                        |
| 9       | 562025.0          | 60.7             | 17          | 1                          | 1033.0     | -                      | -                |                        |
| 10      | 57684.0           | 67.2             | 17          | 2                          | 1288.0     | 1405.0                 | -                |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 11 | 219083.0 | 61.8 | 17 | 1 | 1585.0 | -      | -      |  |
| 12 | 379234.0 | 79.4 | 17 | 2 | 1933.0 | 1667.0 | -      |  |
| 13 | 540896.0 | 81.4 | 17 | 2 | 1096.0 | 1464.0 | -      |  |
| 14 | 37916.0  | 65.7 | 17 | 1 | 1496.0 | -      | -      |  |
| 15 | 198794.0 | 76.0 | 17 | 2 | 1733.0 | 1255.0 | -      |  |
| 16 | 359754.0 | 81.0 | 17 | 2 | 1326.0 | 1668.0 | -      |  |
| 17 | 437880.0 | 97.3 | 17 | 3 | 1319.0 | 1826.0 | 1635.0 |  |

11AC160MIMO-5250MHz:

Radar Type 5 Case1 Statistical Performance

Statistics 0 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 636185.0         | 77.8             | 13          | 2                          | 1665.0     | 1477.0     | -          | 1                      |
| 1       | 32674.0          | 51.9             | 13          | 1                          | 1074.0     | -          | -          |                        |
| 2       | 226294.0         | 63.8             | 13          | 1                          | 1584.0     | -          | -          |                        |
| 3       | 417976.0         | 96.6             | 13          | 3                          | 1682.0     | 1786.0     | 1843.0     |                        |
| 4       | 611152.0         | 85.9             | 13          | 3                          | 1795.0     | 1215.0     | 1729.0     |                        |
| 5       | 8789.0           | 73.7             | 13          | 2                          | 1198.0     | 1549.0     | -          |                        |
| 6       | 201917.0         | 77.2             | 13          | 2                          | 1837.0     | 1819.0     | -          |                        |
| 7       | 395530.0         | 68.4             | 13          | 2                          | 1587.0     | 1114.0     | -          |                        |
| 8       | 588564.0         | 76.7             | 13          | 2                          | 2000.0     | 1155.0     | -          |                        |
| 9       | 783794.0         | 53.2             | 13          | 1                          | 1147.0     | -          | -          |                        |
| 10      | 177933.0         | 85.7             | 13          | 3                          | 1433.0     | 1695.0     | 1394.0     |                        |
| 11      | 370624.0         | 94.3             | 13          | 3                          | 1670.0     | 1426.0     | 1935.0     |                        |
| 12      | 564893.0         | 77.6             | 13          | 2                          | 1294.0     | 1671.0     | -          |                        |
| 13      | 759583.0         | 65.7             | 13          | 1                          | 1512.0     | -          | -          |                        |
| 14      | 154262.0         | 93.5             | 13          | 3                          | 1444.0     | 1130.0     | 1468.0     |                        |

Statistics 1 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 653020.0         | 75.0             | 5           | 2                          | 1880.0     | 1527.0     | -          | 1                      |
| 1       | 1015643.0        | 99.4             | 5           | 3                          | 1401.0     | 1262.0     | 1257.0     |                        |
| 2       | 1379398.0        | 67.4             | 5           | 2                          | 1531.0     | 1403.0     | -          |                        |
| 3       | 245489.0         | 73.6             | 5           | 2                          | 1449.0     | 1041.0     | -          |                        |
| 4       | 609113.0         | 65.9             | 5           | 1                          | 1432.0     | -          | -          |                        |
| 5       | 970852.0         | 83.8             | 5           | 3                          | 1356.0     | 1292.0     | 1419.0     |                        |
| 6       | 1335913.0        | 65.5             | 5           | 1                          | 1543.0     | -          | -          |                        |
| 7       | 200406.0         | 98.6             | 5           | 3                          | 1548.0     | 1796.0     | 1728.0     |                        |

Statistics 2 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 409565.0         | 73.8             | 9           | 2                          | 1806.0     | 1538.0     | -          | 1                      |
| 1       | 673692.0         | 69.5             | 9           | 2                          | 1117.0     | 1649.0     | -          |                        |
| 2       | 938562.0         | 51.9             | 9           | 1                          | 1651.0     | -          | -          |                        |
| 3       | 113209.0         | 84.6             | 9           | 3                          | 1976.0     | 1032.0     | 1271.0     |                        |
| 4       | 376726.0         | 95.4             | 9           | 3                          | 1060.0     | 1903.0     | 1388.0     |                        |
| 5       | 641212.0         | 68.0             | 9           | 2                          | 1368.0     | 1351.0     | -          |                        |
| 6       | 903714.0         | 89.6             | 9           | 3                          | 1338.0     | 1514.0     | 1573.0     |                        |
| 7       | 80863.0          | 81.9             | 9           | 2                          | 1022.0     | 1689.0     | -          |                        |
| 8       | 344067.0         | 88.3             | 9           | 3                          | 1810.0     | 1330.0     | 1838.0     |                        |
| 9       | 609331.0         | 53.7             | 9           | 1                          | 1597.0     | -          | -          |                        |
| 10      | 871542.0         | 91.3             | 9           | 3                          | 1961.0     | 1106.0     | 1001.0     |                        |

Statistics 3 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 26541.0          | 68.1             | 19          | 2                          | 1339.0     | 1355.0     | -          | 1                      |
| 1       | 171821.0         | 58.7             | 19          | 1                          | 1251.0     | -          | -          |                        |
| 2       | 316229.0         | 75.3             | 19          | 2                          | 1136.0     | 1640.0     | -          |                        |
| 3       | 461864.0         | 56.4             | 19          | 1                          | 1753.0     | -          | -          |                        |
| 4       | 8677.0           | 99.7             | 19          | 3                          | 1196.0     | 1708.0     | 1159.0     |                        |
| 5       | 153995.0         | 57.7             | 19          | 1                          | 1013.0     | -          | -          |                        |
| 6       | 299238.0         | 59.5             | 19          | 1                          | 1072.0     | -          | -          |                        |
| 7       | 443177.0         | 80.0             | 19          | 2                          | 1482.0     | 1369.0     | -          |                        |
| 8       | 587671.0         | 82.0             | 19          | 2                          | 1993.0     | 1197.0     | -          |                        |
| 9       | 135674.0         | 82.8             | 19          | 2                          | 1883.0     | 1005.0     | -          |                        |
| 10      | 279928.0         | 88.0             | 19          | 3                          | 1061.0     | 1928.0     | 1101.0     |                        |
| 11      | 424279.0         | 93.2             | 19          | 3                          | 1207.0     | 1907.0     | 1223.0     |                        |
| 12      | 570132.0         | 70.4             | 19          | 2                          | 1526.0     | 1360.0     | -          |                        |
| 13      | 117439.0         | 95.3             | 19          | 3                          | 1171.0     | 1955.0     | 1775.0     |                        |
| 14      |                  |                  |             |                            |            |            |            |                        |
| 15      | 262502.0         | 81.9             | 19          | 2                          | 1690.0     | 1545.0     | -          |                        |
| 16      | 406573.0         | 98.5             | 19          | 3                          | 1975.0     | 1169.0     | 1062.0     |                        |
| 17      | 553328.0         | 65.0             | 19          | 1                          | 1767.0     | -          | -          |                        |
| 18      | 99799.0          | 85.4             | 19          | 3                          | 1011.0     | 1637.0     | 1425.0     |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 19 | 244095.0 | 91.6 | 19 | 3 | 1878.0 | 1445.0 | 1325.0 |  |
|----|----------|------|----|---|--------|--------|--------|--|

Statistics 4 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 629614.0         | 67.9             | 16          | 2                          | 1320.0     | 1133.0     | -          | 1                      |
| 1       | 96856.0          | 62.3             | 16          | 1                          | 1957.0     | -          | -          |                        |
| 2       | 267719.0         | 53.3             | 16          | 1                          | 1592.0     | -          | -          |                        |
| 3       | 436784.0         | 90.0             | 16          | 3                          | 1900.0     | 1153.0     | 1346.0     |                        |
| 4       | 608289.0         | 77.1             | 16          | 2                          | 1166.0     | 1646.0     | -          |                        |
| 5       | 75610.0          | 83.9             | 16          | 3                          | 1278.0     | 1232.0     | 1459.0     |                        |
| 6       | 245638.0         | 89.1             | 16          | 3                          | 1240.0     | 1384.0     | 1939.0     |                        |
| 7       | 416355.0         | 81.8             | 16          | 2                          | 1833.0     | 1676.0     | -          |                        |
| 8       | 588736.0         | 50.3             | 16          | 1                          | 1075.0     | -          | -          |                        |
| 9       | 54571.0          | 87.1             | 16          | 3                          | 1116.0     | 1996.0     | 1756.0     |                        |
| 10      | 225175.0         | 71.3             | 16          | 2                          | 1225.0     | 1815.0     | -          |                        |
| 11      | 394825.0         | 97.5             | 16          | 3                          | 1884.0     | 1465.0     | 1132.0     |                        |
| 12      | 565361.0         | 90.6             | 16          | 3                          | 1561.0     | 1040.0     | 1354.0     |                        |
| 13      | 33643.0          | 86.3             | 16          | 3                          | 1596.0     | 1183.0     | 1792.0     |                        |
| 14      | 203957.0         | 97.6             | 16          | 3                          | 1365.0     | 1073.0     | 1361.0     |                        |
| 15      | 373812.0         | 84.7             | 16          | 3                          | 1021.0     | 1718.0     | 1854.0     |                        |
| 16      | 544060.0         | 99.7             | 16          | 3                          | 1150.0     | 1244.0     | 1988.0     |                        |

Statistics 5 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 15438.0          | 92.9             | 12          | 3                          | 1085.0     | 1564.0     | 1407.0     | 1                      |
| 1       | 222486.0         | 67.7             | 12          | 2                          | 1744.0     | 1747.0     | -          |                        |
| 2       | 430731.0         | 65.8             | 12          | 1                          | 1092.0     | -          | -          |                        |
| 3       | 637784.0         | 56.3             | 12          | 1                          | 1851.0     | -          | -          |                        |
| 4       | 845342.0         | 53.7             | 12          | 1                          | 1727.0     | -          | -          |                        |
| 5       | 196720.0         | 83.5             | 12          | 3                          | 1679.0     | 1930.0     | 1025.0     |                        |
| 6       | 404955.0         | 65.8             | 12          | 1                          | 1519.0     | -          | -          |                        |
| 7       | 610711.0         | 85.9             | 12          | 3                          | 1134.0     | 1034.0     | 1808.0     |                        |
| 8       | 818057.0         | 76.3             | 12          | 2                          | 1606.0     | 1926.0     | -          |                        |
| 9       | 171459.0         | 81.5             | 12          | 2                          | 1891.0     | 1714.0     | -          |                        |
| 10      | 377969.0         | 89.4             | 12          | 3                          | 1310.0     | 1594.0     | 1827.0     |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 11 | 586875.0 | 63.4 | 12 | 1 | 1568.0 | -      | - |  |
| 12 | 792834.0 | 69.6 | 12 | 2 | 1307.0 | 1925.0 | - |  |
| 13 | 146044.0 | 74.5 | 12 | 2 | 1264.0 | 1846.0 | - |  |

Statistics 6 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 329022.0         | 96.6             | 13          | 3                          | 1182.0     | 1609.0     | 1581.0     | 1                      |
| 1       | 521718.0         | 96.7             | 13          | 3                          | 1829.0     | 1799.0     | 1154.0     |                        |
| 2       | 714222.0         | 86.5             | 13          | 3                          | 1923.0     | 1396.0     | 1865.0     |                        |
| 3       | 112450.0         | 73.3             | 13          | 2                          | 1908.0     | 1318.0     | -          |                        |
| 4       | 306283.0         | 55.8             | 13          | 1                          | 1688.0     | -          | -          |                        |
| 5       | 500239.0         | 55.4             | 13          | 1                          | 1145.0     | -          | -          |                        |
| 6       | 690932.0         | 85.3             | 13          | 3                          | 1336.0     | 1504.0     | 1820.0     |                        |
| 7       | 88645.0          | 79.4             | 13          | 2                          | 1344.0     | 1893.0     | -          |                        |
| 8       | 282508.0         | 65.7             | 13          | 1                          | 1476.0     | -          | -          |                        |
| 9       | 475842.0         | 68.6             | 13          | 2                          | 1008.0     | 1028.0     | -          |                        |
| 10      | 667887.0         | 77.7             | 13          | 2                          | 1972.0     | 1835.0     | -          |                        |
| 11      | 64845.0          | 79.6             | 13          | 2                          | 1882.0     | 1331.0     | -          |                        |
| 12      | 257755.0         | 94.9             | 13          | 3                          | 1830.0     | 1070.0     | 1349.0     |                        |
| 13      | 452335.0         | 61.4             | 13          | 1                          | 1451.0     | -          | -          |                        |
| 14      | 643395.0         | 90.6             | 13          | 3                          | 1233.0     | 1562.0     | 1887.0     |                        |
| 15      | 329022.0         | 96.6             | 13          | 3                          | 1182.0     | 1609.0     | 1581.0     |                        |

Statistics 7 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 51446.0          | 52.6             | 10          | 1                          | 1210.0     | -          | -          | 1                      |
| 1       | 292696.0         | 84.1             | 10          | 3                          | 1314.0     | 1725.0     | 1529.0     |                        |
| 2       | 533989.0         | 97.7             | 10          | 3                          | 1139.0     | 1868.0     | 1805.0     |                        |
| 3       | 775564.0         | 97.3             | 10          | 3                          | 1341.0     | 1446.0     | 1755.0     |                        |
| 4       | 21542.0          | 98.8             | 10          | 3                          | 1544.0     | 1386.0     | 1302.0     |                        |
| 5       | 263385.0         | 72.2             | 10          | 2                          | 1771.0     | 1184.0     | -          |                        |
| 6       | 505581.0         | 67.6             | 10          | 2                          | 1175.0     | 1027.0     | -          |                        |
| 7       | 747058.0         | 75.7             | 10          | 2                          | 1026.0     | 1871.0     | -          |                        |
| 8       | 989976.0         | 60.9             | 10          | 1                          | 1798.0     | -          | -          |                        |
| 9       | 234024.0         | 64.2             | 10          | 1                          | 1138.0     | -          | -          |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 10 | 475207.0 | 78.8 | 10 | 2 | 1784.0 | 1604.0 | -      |  |
| 11 | 715825.0 | 87.5 | 10 | 3 | 1511.0 | 1712.0 | 1683.0 |  |

Statistics 8 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 823112.0         | 54.1             | 13          | 1                          | 1415.0     | -          | -          | 1                      |
| 1       | 174965.0         | 50.7             | 13          | 1                          | 1221.0     | -          | -          |                        |
| 2       | 382216.0         | 52.3             | 13          | 1                          | 1974.0     | -          | -          |                        |
| 3       | 587395.0         | 99.8             | 13          | 3                          | 1558.0     | 1696.0     | 1949.0     |                        |
| 4       | 796897.0         | 68.4             | 13          | 2                          | 1014.0     | 1099.0     | -          |                        |
| 5       | 149042.0         | 80.8             | 13          | 2                          | 1736.0     | 1505.0     | -          |                        |
| 6       | 356750.0         | 62.5             | 13          | 1                          | 1778.0     | -          | -          |                        |
| 7       | 563824.0         | 74.8             | 13          | 2                          | 1149.0     | 1204.0     | -          |                        |
| 8       | 772314.0         | 50.8             | 13          | 1                          | 1049.0     | -          | -          |                        |
| 9       | 123796.0         | 54.0             | 13          | 1                          | 1417.0     | -          | -          |                        |
| 10      | 331215.0         | 63.0             | 13          | 1                          | 1730.0     | -          | -          |                        |
| 11      | 537402.0         | 91.8             | 13          | 3                          | 1143.0     | 1270.0     | 1347.0     |                        |
| 12      | 744805.0         | 79.3             | 13          | 2                          | 1274.0     | 1992.0     | -          |                        |
| 13      | 98172.0          | 64.3             | 13          | 1                          | 1937.0     | -          | -          |                        |

Statistics 9 (ChirpCenter Frequency: 5250 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 535615.0         | 63.4             | 6           | 1                          | 1043.0     | -          | -          | 1                      |
| 1       | 898668.0         | 52.0             | 6           | 1                          | 1863.0     | -          | -          |                        |
| 2       | 1259235.0        | 97.2             | 6           | 3                          | 1973.0     | 1605.0     | 1583.0     |                        |
| 3       | 127106.0         | 78.7             | 6           | 2                          | 1466.0     | 1743.0     | -          |                        |
| 4       | 490358.0         | 74.2             | 6           | 2                          | 1280.0     | 1219.0     | -          |                        |
| 5       | 852409.0         | 88.7             | 6           | 3                          | 1293.0     | 1934.0     | 1273.0     |                        |
| 6       | 1217152.0        | 54.3             | 6           | 1                          | 1991.0     | -          | -          |                        |
| 7       | 82296.0          | 95.4             | 6           | 3                          | 1580.0     | 1555.0     | 1791.0     |                        |

## Radar Type 5 Case2 Statistical Performance

Statistics 10 (ChirpCenter Frequency: 5176.4 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 209249.0         | 73.7             | 16          | 2                          | 1208.0     | 1497.0     | -          | 1                      |
| 1       | 378386.0         | 97.4             | 16          | 3                          | 1942.0     | 1754.0     | 1613.0     |                        |
| 2       | 548411.0         | 91.7             | 16          | 3                          | 1999.0     | 1702.0     | 1462.0     |                        |
| 3       | 17733.0          | 66.2             | 16          | 1                          | 1393.0     | -          | -          |                        |
| 4       | 187952.0         | 70.8             | 16          | 2                          | 1968.0     | 1821.0     | -          |                        |
| 5       | 359277.0         | 52.3             | 16          | 1                          | 1740.0     | -          | -          |                        |
| 6       | 528886.0         | 78.9             | 16          | 2                          | 1308.0     | 1984.0     | -          |                        |
| 7       | 700166.0         | 70.9             | 16          | 2                          | 1050.0     | 1358.0     | -          |                        |
| 8       | 167197.0         | 75.6             | 16          | 2                          | 1437.0     | 1430.0     | -          |                        |
| 9       | 338262.0         | 59.1             | 16          | 1                          | 1697.0     | -          | -          |                        |
| 10      | 508324.0         | 77.0             | 16          | 2                          | 1397.0     | 1304.0     | -          |                        |
| 11      | 678689.0         | 67.9             | 16          | 2                          | 1803.0     | 1083.0     | -          |                        |
| 12      | 146031.0         | 81.2             | 16          | 2                          | 1720.0     | 1932.0     | -          |                        |
| 13      | 316923.0         | 78.7             | 16          | 2                          | 1247.0     | 1121.0     | -          |                        |
| 14      | 488056.0         | 63.3             | 16          | 1                          | 1634.0     | -          | -          |                        |
| 15      | 657326.0         | 68.9             | 16          | 2                          | 1849.0     | 1423.0     | -          |                        |
| 16      | 125509.0         | 59.3             | 16          | 1                          | 1093.0     | -          | -          |                        |

Statistics 11 (ChirpCenter Frequency: 5177.6MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 263736.0         | 98.9             | 19          | 3                          | 1381.0     | 1680.0     | 1488.0     | 1                      |
| 1       | 416459.0         | 82.3             | 19          | 2                          | 1716.0     | 1855.0     | -          |                        |
| 2       | 567902.0         | 86.7             | 19          | 3                          | 1211.0     | 1400.0     | 1919.0     |                        |
| 3       | 92979.0          | 89.7             | 19          | 3                          | 1861.0     | 1068.0     | 1282.0     |                        |
| 4       | 245155.0         | 98.6             | 19          | 3                          | 1507.0     | 1194.0     | 1461.0     |                        |
| 5       | 397609.0         | 71.1             | 19          | 2                          | 1921.0     | 1789.0     | -          |                        |
| 6       | 551431.0         | 55.9             | 19          | 1                          | 1947.0     | -          | -          |                        |
| 7       | 74413.0          | 67.9             | 19          | 2                          | 1350.0     | 1372.0     | -          |                        |
| 8       | 226559.0         | 84.4             | 19          | 3                          | 1203.0     | 1107.0     | 1443.0     |                        |
| 9       | 380056.0         | 58.8             | 19          | 1                          | 1715.0     | -          | -          |                        |
| 10      | 533408.0         | 65.6             | 19          | 1                          | 1017.0     | -          | -          |                        |
| 11      | 55547.0          | 78.5             | 19          | 2                          | 1911.0     | 1704.0     | -          |                        |
| 12      | 207876.0         | 82.3             | 19          | 2                          | 1845.0     | 1686.0     | -          |                        |
| 13      | 359771.0         | 90.1             | 19          | 3                          | 1938.0     | 1071.0     | 1266.0     |                        |
| 14      | 511297.0         | 90.2             | 19          | 3                          | 1989.0     | 1089.0     | 1950.0     |                        |
| 15      | 36803.0          | 83.1             | 19          | 2                          | 1943.0     | 1406.0     | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 16 | 189652.0 | 58.8 | 19 | 1 | 1742.0 | -      | - |  |
| 17 | 341809.0 | 77.0 | 19 | 2 | 1187.0 | 1657.0 | - |  |
| 18 | 495737.0 | 55.0 | 19 | 1 | 1012.0 | -      | - |  |

Statistics 12 (ChirpCenter Frequency: 5175.2MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 22911.0          | 58.1             | 13          | 1                          | 1929.0     | -          | -          | 1                      |
| 1       | 216473.0         | 52.1             | 13          | 1                          | 1910.0     | -          | -          |                        |
| 2       | 410004.0         | 59.9             | 13          | 1                          | 1971.0     | -          | -          |                        |
| 3       | 603671.0         | 60.2             | 13          | 1                          | 1812.0     | -          | -          |                        |
| 4       | 794160.0         | 95.9             | 13          | 3                          | 1399.0     | 1906.0     | 1608.0     |                        |
| 5       | 192251.0         | 79.9             | 13          | 2                          | 1626.0     | 1859.0     | -          |                        |
| 6       | 385590.0         | 78.5             | 13          | 2                          | 1238.0     | 1917.0     | -          |                        |
| 7       | 579862.0         | 53.8             | 13          | 1                          | 1763.0     | -          | -          |                        |
| 8       | 773423.0         | 64.7             | 13          | 1                          | 1800.0     | -          | -          |                        |
| 9       | 168898.0         | 61.4             | 13          | 1                          | 1390.0     | -          | -          |                        |
| 10      | 361606.0         | 83.2             | 13          | 2                          | 1692.0     | 1858.0     | -          |                        |
| 11      | 553866.0         | 84.7             | 13          | 3                          | 1533.0     | 1677.0     | 1638.0     |                        |
| 12      | 747241.0         | 88.7             | 13          | 3                          | 1703.0     | 1528.0     | 1058.0     |                        |
| 13      | 144710.0         | 78.3             | 13          | 2                          | 1258.0     | 1951.0     | -          |                        |
| 14      | 337856.0         | 69.3             | 13          | 2                          | 1731.0     | 1717.0     | -          |                        |

Statistics 13 (ChirpCenter Frequency: 5174MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 664275.0         | 75.3             | 10          | 2                          | 1994.0     | 1612.0     | -          | 1                      |
| 1       | 907886.0         | 56.3             | 10          | 1                          | 1456.0     | -          | -          |                        |
| 2       | 151316.0         | 67.7             | 10          | 2                          | 1617.0     | 1185.0     | -          |                        |
| 3       | 393746.0         | 55.6             | 10          | 1                          | 1337.0     | -          | -          |                        |
| 4       | 635093.0         | 75.2             | 10          | 2                          | 1421.0     | 1267.0     | -          |                        |
| 5       | 876993.0         | 76.3             | 10          | 2                          | 1359.0     | 1305.0     | -          |                        |
| 6       | 121278.0         | 85.7             | 10          | 3                          | 1547.0     | 1362.0     | 1924.0     |                        |
| 7       | 362696.0         | 98.4             | 10          | 3                          | 1873.0     | 1550.0     | 1249.0     |                        |
| 8       | 604342.0         | 86.4             | 10          | 3                          | 1779.0     | 1439.0     | 1046.0     |                        |
| 9       | 846453.0         | 93.6             | 10          | 3                          | 1059.0     | 1031.0     | 1452.0     |                        |
| 10      | 91871.0          | 63.3             | 10          | 1                          | 1328.0     | -          | -          |                        |
| 11      | 333050.0         | 92.4             | 10          | 3                          | 1412.0     | 1673.0     | 1322.0     |                        |

Statistics14 (ChirpCenter Frequency: 5177.2 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 361323.0         | 93.3             | 18          | 3                          | 1983.0     | 1912.0     | 1535.0     | 1                      |
| 1       | 515261.0         | 69.1             | 18          | 2                          | 1102.0     | 1794.0     | -          |                        |
| 2       | 39025.0          | 86.9             | 18          | 3                          | 1044.0     | 1152.0     | 1148.0     |                        |
| 3       | 190900.0         | 84.9             | 18          | 3                          | 1894.0     | 1948.0     | 1118.0     |                        |
| 4       | 343941.0         | 72.3             | 18          | 2                          | 1094.0     | 1916.0     | -          |                        |
| 5       | 497624.0         | 51.7             | 18          | 1                          | 1447.0     | -          | -          |                        |
| 6       | 20319.0          | 58.3             | 18          | 1                          | 1429.0     | -          | -          |                        |
| 7       | 172999.0         | 60.8             | 18          | 1                          | 1979.0     | -          | -          |                        |
| 8       | 325872.0         | 57.1             | 18          | 1                          | 1641.0     | -          | -          |                        |
| 9       | 475841.0         | 88.9             | 18          | 3                          | 1886.0     | 1964.0     | 1489.0     |                        |
| 10      | 1489.0           | 72.0             | 18          | 2                          | 1909.0     | 1297.0     | -          |                        |
| 11      | 153647.0         | 90.9             | 18          | 3                          | 1261.0     | 1566.0     | 1370.0     |                        |
| 12      | 307096.0         | 59.8             | 18          | 1                          | 1552.0     | -          | -          |                        |
| 13      | 458804.0         | 70.0             | 18          | 2                          | 1759.0     | 1291.0     | -          |                        |
| 14      | 610798.0         | 67.2             | 18          | 2                          | 1625.0     | 1881.0     | -          |                        |
| 15      | 134759.0         | 91.2             | 18          | 3                          | 1382.0     | 1832.0     | 1661.0     |                        |
| 16      | 288306.0         | 56.5             | 18          | 1                          | 1483.0     | -          | -          |                        |
| 17      | 441296.0         | 51.2             | 18          | 1                          | 1237.0     | -          | -          |                        |
| 18      | 592780.0         | 74.1             | 18          | 2                          | 1471.0     | 1245.0     | -          |                        |

Statistics 15 (ChirpCenter Frequency: 5174.8 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 158286.0         | 76.9             | 12          | 2                          | 1110.0     | 1140.0     | -          | 1                      |
| 1       | 366024.0         | 50.2             | 12          | 1                          | 1316.0     | -          | -          |                        |
| 2       | 573452.0         | 62.9             | 12          | 1                          | 1520.0     | -          | -          |                        |
| 3       | 780619.0         | 64.7             | 12          | 1                          | 1902.0     | -          | -          |                        |
| 4       | 132455.0         | 83.8             | 12          | 3                          | 1410.0     | 1097.0     | 1621.0     |                        |
| 5       | 340207.0         | 65.4             | 12          | 1                          | 1944.0     | -          | -          |                        |
| 6       | 548208.0         | 53.2             | 12          | 1                          | 1024.0     | -          | -          |                        |
| 7       | 755333.0         | 51.7             | 12          | 1                          | 1603.0     | -          | -          |                        |
| 8       | 107117.0         | 78.7             | 12          | 2                          | 1804.0     | 1168.0     | -          |                        |
| 9       | 314500.0         | 72.4             | 12          | 2                          | 1030.0     | 1343.0     | -          |                        |
| 10      | 522447.0         | 53.8             | 12          | 1                          | 1327.0     | -          | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 11 | 728517.0 | 73.6 | 12 | 2 | 1524.0 | 1553.0 | - |  |
| 12 | 81611.0  | 66.7 | 12 | 2 | 1722.0 | 1122.0 | - |  |
| 13 | 288948.0 | 82.5 | 12 | 2 | 1404.0 | 1019.0 | - |  |

Statistics 16 (ChirpCenter Frequency: 5178 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 345766.0         | 87.6             | 20          | 3                          | 1565.0     | 1055.0     | 1840.0     | 1                      |
| 1       | 490019.0         | 85.2             | 20          | 3                          | 1735.0     | 1541.0     | 1408.0     |                        |
| 2       | 39073.0          | 84.8             | 20          | 3                          | 1534.0     | 1889.0     | 1463.0     |                        |
| 3       | 183923.0         | 77.9             | 20          | 2                          | 1749.0     | 1460.0     | -          |                        |
| 4       | 328777.0         | 76.5             | 20          | 2                          | 1518.0     | 1485.0     | -          |                        |
| 5       | 474728.0         | 60.9             | 20          | 1                          | 1540.0     | -          | -          |                        |
| 6       | 21394.0          | 83.0             | 20          | 2                          | 1080.0     | 1010.0     | -          |                        |
| 7       | 165992.0         | 80.4             | 20          | 2                          | 1824.0     | 1752.0     | -          |                        |
| 8       | 310973.0         | 67.5             | 20          | 2                          | 1764.0     | 1181.0     | -          |                        |
| 9       | 456884.0         | 62.1             | 20          | 1                          | 1495.0     | -          | -          |                        |
| 10      | 3515.0           | 86.4             | 20          | 3                          | 1773.0     | 1966.0     | 1263.0     |                        |
| 11      | 147928.0         | 84.3             | 20          | 3                          | 1593.0     | 1188.0     | 1788.0     |                        |
| 12      | 293225.0         | 76.9             | 20          | 2                          | 1226.0     | 1537.0     | -          |                        |
| 13      | 436922.0         | 95.8             | 20          | 3                          | 1192.0     | 1298.0     | 1844.0     |                        |
| 14      | 584015.0         | 55.2             | 20          | 1                          | 1644.0     | -          | -          |                        |
| 15      | 130832.0         | 59.0             | 20          | 1                          | 1402.0     | -          | -          |                        |
| 16      | 274684.0         | 94.5             | 20          | 3                          | 1296.0     | 1700.0     | 1283.0     |                        |
| 17      | 418579.0         | 91.9             | 20          | 3                          | 1970.0     | 1978.0     | 1165.0     |                        |
| 18      | 563464.0         | 85.2             | 20          | 3                          | 1732.0     | 1551.0     | 1189.0     |                        |
| 19      | 112787.0         | 69.5             | 20          | 2                          | 1038.0     | 1224.0     | -          |                        |

Statistics 17 (ChirpCenter Frequency: 5174MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 429224.0         | 86.4             | 10          | 3                          | 1259.0     | 1918.0     | 1455.0     | 1                      |
| 1       | 670241.0         | 92.2             | 10          | 3                          | 1598.0     | 1719.0     | 1895.0     |                        |
| 2       | 912880.0         | 80.4             | 10          | 2                          | 1816.0     | 1899.0     | -          |                        |
| 3       | 158603.0         | 54.3             | 10          | 1                          | 1335.0     | -          | -          |                        |
| 4       | 400824.0         | 53.1             | 10          | 1                          | 1303.0     | -          | -          |                        |
| 5       | 641915.0         | 69.4             | 10          | 2                          | 1503.0     | 1546.0     | -          |                        |

|    |          |       |    |   |        |        |        |  |
|----|----------|-------|----|---|--------|--------|--------|--|
| 6  | 883823.0 | 69.1  | 10 | 2 | 1279.0 | 1639.0 | -      |  |
| 7  | 128373.0 | 100.0 | 10 | 3 | 1375.0 | 1438.0 | 1595.0 |  |
| 8  | 370379.0 | 79.6  | 10 | 2 | 1239.0 | 1705.0 | -      |  |
| 9  | 611194.0 | 88.4  | 10 | 3 | 1374.0 | 1579.0 | 1623.0 |  |
| 10 | 855665.0 | 53.3  | 10 | 1 | 1016.0 | -      | -      |  |
| 11 | 98897.0  | 65.3  | 10 | 1 | 1709.0 | -      | -      |  |

Statistics 18 (ChirpCenter Frequency: 5174.8MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 292143.0         | 55.3             | 12          | 1                          | 1920.0     | -          | -          | 1                      |
| 1       | 499633.0         | 58.3             | 12          | 1                          | 1797.0     | -          | -          |                        |
| 2       | 706377.0         | 72.3             | 12          | 2                          | 1610.0     | 1039.0     | -          |                        |
| 3       | 58989.0          | 84.8             | 12          | 3                          | 1131.0     | 1761.0     | 1721.0     |                        |
| 4       | 266161.0         | 82.5             | 12          | 2                          | 1875.0     | 1431.0     | -          |                        |
| 5       | 474469.0         | 63.3             | 12          | 1                          | 1095.0     | -          | -          |                        |
| 6       | 680544.0         | 80.0             | 12          | 2                          | 1119.0     | 1913.0     | -          |                        |
| 7       | 33519.0          | 90.3             | 12          | 3                          | 1660.0     | 1853.0     | 1123.0     |                        |
| 8       | 240319.0         | 91.1             | 12          | 3                          | 1539.0     | 1783.0     | 1172.0     |                        |
| 9       | 447400.0         | 96.6             | 12          | 3                          | 1525.0     | 1036.0     | 1385.0     |                        |
| 10      | 654516.0         | 82.7             | 12          | 2                          | 1710.0     | 1990.0     | -          |                        |
| 11      | 8083.0           | 50.7             | 12          | 1                          | 1234.0     | -          | -          |                        |
| 12      | 215435.0         | 78.4             | 12          | 2                          | 1047.0     | 1109.0     | -          |                        |
| 13      | 421325.0         | 99.5             | 12          | 3                          | 1299.0     | 1965.0     | 1869.0     |                        |

Statistics 19 (ChirpCenter Frequency:5174 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 733725.0          | 88.6             | 10          | 3                          | 1501.0     | 1067.0     | 1927.0     | 1                      |
| 1       | 977882.0          | 57.4             | 10          | 1                          | 1723.0     | -          | -          |                        |
| 2       | 221197.0          | 96.6             | 10          | 3                          | 1086.0     | 1658.0     | 1324.0     |                        |
| 3       | 462915.0          | 69.7             | 10          | 2                          | 1751.0     | 1945.0     | -          |                        |
| 4       | 705071.0          | 77.9             | 10          | 2                          | 1642.0     | 1317.0     | -          |                        |
| 5       | 947923.0          | 62.0             | 10          | 1                          | 1866.0     | -          | -          |                        |
| 6       | 191373.0          | 88.4             | 10          | 3                          | 1997.0     | 1077.0     | 1366.0     |                        |
| 7       | 432561.0          | 97.3             | 10          | 3                          | 1790.0     | 1896.0     | 1367.0     |                        |
| 8       | 674004.0          | 96.2             | 10          | 3                          | 1391.0     | 1787.0     | 1672.0     |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 9  | 915842.0 | 95.4 | 10 | 3 | 1020.0 | 1892.0 | 1414.0 |  |
| 10 | 162176.0 | 54.8 | 10 | 1 | 1084.0 | -      | -      |  |
| 11 | 403553.0 | 80.4 | 10 | 2 | 1850.0 | 1436.0 | -      |  |

## Radar Type 5 Case3 Statistical Performance

## Statistics 20 (ChirpCenter Frequency:5324MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 483470.0          | 74.7             | 15          | 2                          | 1619.0     | 1611.0     | -          | 1                      |
| 1       | 666072.0          | 57.1             | 15          | 1                          | 1560.0     | -          | -          |                        |
| 2       | 98810.0           | 91.9             | 15          | 3                          | 1392.0     | 1475.0     | 1276.0     |                        |
| 3       | 279914.0          | 83.1             | 15          | 2                          | 1809.0     | 1772.0     | -          |                        |
| 4       | 462536.0          | 50.7             | 15          | 1                          | 1003.0     | -          | -          |                        |
| 5       | 642324.0          | 79.2             | 15          | 2                          | 1574.0     | 1600.0     | -          |                        |
| 6       | 76831.0           | 58.7             | 15          | 1                          | 1186.0     | -          | -          |                        |
| 7       | 257785.0          | 71.0             | 15          | 2                          | 1521.0     | 1567.0     | -          |                        |
| 8       | 438554.0          | 79.0             | 15          | 2                          | 1777.0     | 1960.0     | -          |                        |
| 9       | 620397.0          | 68.5             | 15          | 2                          | 1284.0     | 1428.0     | -          |                        |
| 10      | 54310.0           | 73.5             | 15          | 2                          | 1904.0     | 1352.0     | -          |                        |
| 11      | 235506.0          | 70.5             | 15          | 2                          | 1864.0     | 1115.0     | -          |                        |
| 12      | 417036.0          | 76.6             | 15          | 2                          | 1045.0     | 1300.0     | -          |                        |
| 13      | 597974.0          | 81.2             | 15          | 2                          | 1160.0     | 1675.0     | -          |                        |
| 14      | 32086.0           | 61.8             | 15          | 1                          | 1277.0     | -          | -          |                        |
| 15      | 212751.0          | 94.9             | 15          | 3                          | 1450.0     | 1206.0     | 1860.0     |                        |

## Statistics 21 (ChirpCenter Frequency: 5326.4 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 526149.0          | 78.5             | 9           | 2                          | 1653.0     | 1698.0     | -          | 1                      |
| 1       | 767135.0          | 89.8             | 9           | 3                          | 1174.0     | 1962.0     | 1167.0     |                        |
| 2       | 12955.0           | 59.4             | 9           | 1                          | 1982.0     | -          | -          |                        |
| 3       | 254612.0          | 79.6             | 9           | 2                          | 1633.0     | 1890.0     | -          |                        |
| 4       | 496588.0          | 76.0             | 9           | 2                          | 1112.0     | 1811.0     | -          |                        |
| 5       | 739728.0          | 53.6             | 9           | 1                          | 1144.0     | -          | -          |                        |
| 6       | 980872.0          | 80.9             | 9           | 2                          | 1220.0     | 1053.0     | -          |                        |
| 7       | 225249.0          | 61.6             | 9           | 1                          | 1724.0     | -          | -          |                        |
| 8       | 467279.0          | 53.4             | 9           | 1                          | 1901.0     | -          | -          |                        |
| 9       | 709720.0          | 59.9             | 9           | 1                          | 1379.0     | -          | -          |                        |

|    |          |      |   |   |        |        |        |  |
|----|----------|------|---|---|--------|--------|--------|--|
| 10 | 951847.0 | 60.4 | 9 | 1 | 1453.0 | -      | -      |  |
| 11 | 194839.0 | 91.4 | 9 | 3 | 1768.0 | 1726.0 | 1227.0 |  |

Statistics 22 (ChirpCenter Frequency: 5322MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 261858.0          | 77.0             | 20          | 2                          | 1191.0     | 1363.0     | -          | 1                      |
| 1       | 407646.0          | 58.1             | 20          | 1                          | 1248.0     | -          | -          |                        |
| 2       | 552319.0          | 62.1             | 20          | 1                          | 1836.0     | -          | -          |                        |
| 3       | 99107.0           | 76.9             | 20          | 2                          | 1334.0     | 1236.0     | -          |                        |
| 4       | 243514.0          | 80.0             | 20          | 2                          | 1914.0     | 1852.0     | -          |                        |
| 5       | 389464.0          | 52.0             | 20          | 1                          | 1701.0     | -          | -          |                        |
| 6       | 531093.0          | 88.6             | 20          | 3                          | 1693.0     | 1995.0     | 1905.0     |                        |
| 7       | 81159.0           | 72.9             | 20          | 2                          | 1922.0     | 1387.0     | -          |                        |
| 8       | 225245.0          | 98.5             | 20          | 3                          | 1839.0     | 1746.0     | 1389.0     |                        |
| 9       | 371906.0          | 57.9             | 20          | 1                          | 1193.0     | -          | -          |                        |
| 10      | 514197.0          | 95.9             | 20          | 3                          | 1659.0     | 1870.0     | 1066.0     |                        |
| 11      | 63561.0           | 53.5             | 20          | 1                          | 1162.0     | -          | -          |                        |
| 12      | 207510.0          | 92.0             | 20          | 3                          | 1745.0     | 1654.0     | 1458.0     |                        |
| 13      | 353638.0          | 57.3             | 20          | 1                          | 1834.0     | -          | -          |                        |
| 14      | 497515.0          | 70.5             | 20          | 2                          | 1684.0     | 1586.0     | -          |                        |
| 15      | 45553.0           | 70.0             | 20          | 2                          | 1042.0     | 1664.0     | -          |                        |
| 16      | 189821.0          | 84.0             | 20          | 3                          | 1765.0     | 1630.0     | 1176.0     |                        |
| 17      | 335330.0          | 76.1             | 20          | 2                          | 1557.0     | 1057.0     | -          |                        |
| 18      | 478825.0          | 93.2             | 20          | 3                          | 1985.0     | 1018.0     | 1340.0     |                        |
| 19      | 27594.0           | 96.8             | 20          | 3                          | 1760.0     | 1614.0     | 1817.0     |                        |

Statistics 23 (ChirpCenter Frequency:5325.2MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 247117.0         | 50.1             | 12          | 1                          | 1841.0     | -          | -          | 1                      |
| 1       | 453362.0         | 93.5             | 12          | 3                          | 1590.0     | 1081.0     | 1413.0     |                        |
| 2       | 660875.0         | 68.8             | 12          | 2                          | 1707.0     | 1577.0     | -          |                        |
| 3       | 14140.0          | 56.3             | 12          | 1                          | 1056.0     | -          | -          |                        |
| 4       | 220734.0         | 86.0             | 12          | 3                          | 1953.0     | 1108.0     | 1987.0     |                        |
| 5       | 428367.0         | 75.2             | 12          | 2                          | 1572.0     | 1536.0     | -          |                        |
| 6       | 636681.0         | 54.4             | 12          | 1                          | 1517.0     | -          | -          |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 7  | 843157.0 | 71.1 | 12 | 2 | 1329.0 | 1243.0 | -      |  |
| 8  | 195585.0 | 76.2 | 12 | 2 | 1940.0 | 1770.0 | -      |  |
| 9  | 403231.0 | 80.2 | 12 | 2 | 1098.0 | 1209.0 | -      |  |
| 10 | 610202.0 | 79.7 | 12 | 2 | 1588.0 | 1214.0 | -      |  |
| 11 | 815229.0 | 90.9 | 12 | 3 | 1615.0 | 1862.0 | 1601.0 |  |
| 12 | 170267.0 | 68.7 | 12 | 2 | 1377.0 | 1441.0 | -      |  |
| 13 | 377306.0 | 67.4 | 12 | 2 | 1872.0 | 1313.0 | -      |  |

Statistics 24 (ChirpCenter Frequency: 5325.6 MHz)

| Trial # | Burst Offset(us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 628071.0         | 94.0             | 11          | 3                          | 1643.0     | 1748.0     | 1941.0     | 1                      |
| 1       | 853391.0         | 70.8             | 11          | 2                          | 1177.0     | 1201.0     | -          |                        |
| 2       | 156223.0         | 56.3             | 11          | 1                          | 1006.0     | -          | -          |                        |
| 3       | 378734.0         | 96.7             | 11          | 3                          | 1230.0     | 1163.0     | 1332.0     |                        |
| 4       | 601331.0         | 90.6             | 11          | 3                          | 1217.0     | 1582.0     | 1498.0     |                        |
| 5       | 825462.0         | 74.5             | 11          | 2                          | 1569.0     | 1281.0     | -          |                        |
| 6       | 128265.0         | 92.6             | 11          | 3                          | 1065.0     | 1669.0     | 1222.0     |                        |
| 7       | 351161.0         | 89.0             | 11          | 3                          | 1493.0     | 1135.0     | 1380.0     |                        |
| 8       | 573425.0         | 96.5             | 11          | 3                          | 1607.0     | 1822.0     | 1602.0     |                        |
| 9       | 798431.0         | 70.5             | 11          | 2                          | 1141.0     | 1178.0     | -          |                        |
| 10      | 100737.0         | 94.0             | 11          | 3                          | 1009.0     | 1629.0     | 1956.0     |                        |
| 11      | 324661.0         | 55.8             | 11          | 1                          | 1290.0     | -          | -          |                        |
| 12      | 546278.0         | 87.7             | 11          | 3                          | 1435.0     | 1963.0     | 1164.0     |                        |

Statistics 25 (ChirpCenter Frequency: 5328 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 1253842.0         | 68.6             | 5           | 2                          | 1306.0     | 1161.0     | -          | 1                      |
| 1       | 119486.0          | 83.1             | 5           | 2                          | 1420.0     | 1315.0     | -          |                        |
| 2       | 482958.0          | 60.9             | 5           | 1                          | 1687.0     | -          | -          |                        |
| 3       | 845641.0          | 77.7             | 5           | 2                          | 1776.0     | 1158.0     | -          |                        |
| 4       | 1208428.0         | 77.4             | 5           | 2                          | 1793.0     | 1510.0     | -          |                        |
| 5       | 74748.0           | 66.8             | 5           | 2                          | 1576.0     | 1323.0     | -          |                        |
| 6       | 438300.0          | 63.7             | 5           | 1                          | 1333.0     | -          | -          |                        |
| 7       | 800152.0          | 91.2             | 5           | 3                          | 1409.0     | 1681.0     | 1275.0     |                        |

Statistics 26 (ChirpCenter Frequency: 5323.6 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 545865.0          | 83.6             | 16          | 3                          | 1632.0     | 1195.0     | 1000.0     | 1                      |
| 1       | 14067.0           | 89.4             | 16          | 3                          | 1173.0     | 1627.0     | 1656.0     |                        |
| 2       | 184953.0          | 55.8             | 16          | 1                          | 1532.0     | -          | -          |                        |
| 3       | 353759.0          | 90.9             | 16          | 3                          | 1981.0     | 1554.0     | 1998.0     |                        |
| 4       | 526388.0          | 54.7             | 16          | 1                          | 1825.0     | -          | -          |                        |
| 5       | 694806.0          | 97.7             | 16          | 3                          | 1734.0     | 1202.0     | 1250.0     |                        |
| 6       | 163568.0          | 67.5             | 16          | 2                          | 1571.0     | 1434.0     | -          |                        |
| 7       | 333410.0          | 96.7             | 16          | 3                          | 1589.0     | 1469.0     | 1268.0     |                        |
| 8       | 504006.0          | 68.3             | 16          | 2                          | 1750.0     | 1954.0     | -          |                        |
| 9       | 675297.0          | 78.3             | 16          | 2                          | 1591.0     | 1082.0     | -          |                        |
| 10      | 142890.0          | 55.0             | 16          | 1                          | 1427.0     | -          | -          |                        |
| 11      | 312479.0          | 84.9             | 16          | 3                          | 1129.0     | 1936.0     | 1199.0     |                        |
| 12      | 482953.0          | 74.6             | 16          | 2                          | 1959.0     | 1856.0     | -          |                        |
| 13      | 655022.0          | 63.3             | 16          | 1                          | 1885.0     | -          | -          |                        |
| 14      | 121457.0          | 99.8             | 16          | 3                          | 1035.0     | 1515.0     | 1120.0     |                        |
| 15      | 292606.0          | 63.6             | 16          | 1                          | 1647.0     | -          | -          |                        |
| 16      | 461322.0          | 87.3             | 16          | 3                          | 1931.0     | 1051.0     | 1831.0     |                        |

Statistics 27 (ChirpCenter Frequency: 5322.4 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | PRI-2 (μS) | PRI-3 (μS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------|------------|------------------------|
| 0       | 565136.0          | 85.6             | 19          | 3                          | 1946.0     | 1078.0     | 1015.0     | 1                      |
| 1       | 89970.0           | 68.6             | 19          | 2                          | 1029.0     | 1780.0     | -          |                        |
| 2       | 243121.0          | 54.2             | 19          | 1                          | 1111.0     | -          | -          |                        |
| 3       | 396034.0          | 61.2             | 19          | 1                          | 1104.0     | -          | -          |                        |
| 4       | 546225.0          | 97.1             | 19          | 3                          | 1157.0     | 1969.0     | 1100.0     |                        |
| 5       | 70998.0           | 98.3             | 19          | 3                          | 1142.0     | 1699.0     | 1622.0     |                        |
| 6       | 224093.0          | 62.4             | 19          | 1                          | 1655.0     | -          | -          |                        |
| 7       | 376127.0          | 80.2             | 19          | 2                          | 1126.0     | 1769.0     | -          |                        |
| 8       | 527806.0          | 87.5             | 19          | 3                          | 1216.0     | 1448.0     | 1179.0     |                        |
| 9       | 52247.0           | 85.8             | 19          | 3                          | 1847.0     | 1348.0     | 1472.0     |                        |
| 10      | 204582.0          | 88.1             | 19          | 3                          | 1023.0     | 1124.0     | 1631.0     |                        |
| 11      | 357941.0          | 65.3             | 19          | 1                          | 1848.0     | -          | -          |                        |
| 12      | 510977.0          | 52.5             | 19          | 1                          | 1470.0     | -          | -          |                        |

|    |          |      |    |   |        |        |   |  |
|----|----------|------|----|---|--------|--------|---|--|
| 13 | 33698.0  | 52.3 | 19 | 1 | 1312.0 | -      | - |  |
| 14 | 186023.0 | 74.1 | 19 | 2 | 1915.0 | 1200.0 | - |  |
| 15 | 339327.0 | 54.9 | 19 | 1 | 1479.0 | -      | - |  |
| 16 | 491053.0 | 76.2 | 19 | 2 | 1376.0 | 1502.0 | - |  |
| 17 | 14858.0  | 60.4 | 19 | 1 | 1758.0 | -      | - |  |
| 18 | 167387.0 | 81.5 | 19 | 2 | 1491.0 | 1103.0 | - |  |

Statistics 28 (ChirpCenter Frequency: 5326 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | Pulse 2-3 Spacing (μS) | Pulse Start (mS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------------------|------------------|------------------------|
| 0       | 507709.0          | 50.5             | 10          | 1                          | 1857.0     | -                      | -                | 1                      |
| 1       | 750249.0          | 55.7             | 10          | 1                          | 1246.0     | -                      | -                |                        |
| 2       | 989003.0          | 85.8             | 10          | 3                          | 1774.0     | 1002.0                 | 1967.0           |                        |
| 3       | 235634.0          | 76.9             | 10          | 2                          | 1125.0     | 1474.0                 | -                |                        |
| 4       | 477675.0          | 75.1             | 10          | 2                          | 1254.0     | 1052.0                 | -                |                        |
| 5       | 718312.0          | 92.3             | 10          | 3                          | 1180.0     | 1486.0                 | 1492.0           |                        |
| 6       | 960895.0          | 78.1             | 10          | 2                          | 1301.0     | 1757.0                 | -                |                        |
| 7       | 205370.0          | 92.2             | 10          | 3                          | 1898.0     | 1252.0                 | 1713.0           |                        |
| 8       | 446940.0          | 89.0             | 10          | 3                          | 1260.0     | 1706.0                 | 1411.0           |                        |
| 9       | 689225.0          | 70.9             | 10          | 2                          | 1578.0     | 1620.0                 | -                |                        |
| 10      | 932305.0          | 63.1             | 10          | 1                          | 1782.0     | -                      | -                |                        |
| 11      | 176231.0          | 55.3             | 10          | 1                          | 1522.0     | -                      | -                |                        |

Statistics 29 (ChirpCenter Frequency: 5323.2 MHz)

| Trial # | Burst Offset (us) | Pulse Width (μS) | Chirp (MHz) | Number of Pulses per Burst | PRI-1 (μS) | Pulse 2-3 Spacing (μS) | Pulse Start (mS) | Detection (1:yes;0:no) |
|---------|-------------------|------------------|-------------|----------------------------|------------|------------------------|------------------|------------------------|
| 0       | 437880.0          | 97.3             | 17          | 3                          | 1319.0     | 1826.0                 | 1635.0           | 1                      |
| 1       | 598445.0          | 90.4             | 17          | 3                          | 1079.0     | 1986.0                 | 1674.0           |                        |
| 2       | 97088.0           | 91.8             | 17          | 3                          | 1563.0     | 1151.0                 | 1802.0           |                        |
| 3       | 257251.0          | 98.2             | 17          | 3                          | 1876.0     | 1977.0                 | 1766.0           |                        |
| 4       | 419893.0          | 59.5             | 17          | 1                          | 1952.0     | -                      | -                |                        |
| 5       | 580724.0          | 80.0             | 17          | 2                          | 1253.0     | 1137.0                 | -                |                        |
| 6       | 77366.0           | 86.5             | 17          | 3                          | 1054.0     | 1128.0                 | 1828.0           |                        |
| 7       | 238032.0          | 91.1             | 17          | 3                          | 1105.0     | 1599.0                 | 1442.0           |                        |
| 8       | 398605.0          | 93.5             | 17          | 3                          | 1867.0     | 1373.0                 | 1087.0           |                        |
| 9       | 562025.0          | 60.7             | 17          | 1                          | 1033.0     | -                      | -                |                        |
| 10      | 57684.0           | 67.2             | 17          | 2                          | 1288.0     | 1405.0                 | -                |                        |

|    |          |      |    |   |        |        |        |  |
|----|----------|------|----|---|--------|--------|--------|--|
| 11 | 219083.0 | 61.8 | 17 | 1 | 1585.0 | -      | -      |  |
| 12 | 379234.0 | 79.4 | 17 | 2 | 1933.0 | 1667.0 | -      |  |
| 13 | 540896.0 | 81.4 | 17 | 2 | 1096.0 | 1464.0 | -      |  |
| 14 | 37916.0  | 65.7 | 17 | 1 | 1496.0 | -      | -      |  |
| 15 | 198794.0 | 76.0 | 17 | 2 | 1733.0 | 1255.0 | -      |  |
| 16 | 359754.0 | 81.0 | 17 | 2 | 1326.0 | 1668.0 | -      |  |
| 17 | 437880.0 | 97.3 | 17 | 3 | 1319.0 | 1826.0 | 1635.0 |  |

| Test Mode   | Frequency[MHz] | Radar Type | Trial ID | Pulse width (μs) | PRI (μs) | Pulses per Hop | Detection (1: Yes; 0: No) |
|-------------|----------------|------------|----------|------------------|----------|----------------|---------------------------|
| 11A         | 5260           | Type6      | 0        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 1        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 2        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 3        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 4        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 5        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 6        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 7        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 8        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 9        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 10       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 11       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 12       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 13       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 14       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 15       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 16       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 17       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 18       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 19       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 20       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 21       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 22       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 23       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 24       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 25       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 26       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 27       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 28       | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 29       | 1                | 333.3    | 9              | 1                         |
| 11AC40 MIMO | 5270           | Type6      | 0        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 1        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 2        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 3        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 4        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 5        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 6        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 7        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 8        | 1                | 333.3    | 9              | 1                         |
|             |                | Type6      | 9        | 1                | 333.3    | 9              | 1                         |

|                |      |       |    |   |       |   |   |
|----------------|------|-------|----|---|-------|---|---|
| 11AC80<br>MIMO | 5290 | Type6 | 10 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 11 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 12 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 13 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 14 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 15 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 16 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 17 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 18 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 19 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 20 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 21 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 22 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 23 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 24 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 25 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 26 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 27 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 28 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 29 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 0  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 1  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 2  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 3  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 4  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 5  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 6  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 7  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 8  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 9  | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 10 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 11 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 12 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 13 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 14 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 15 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 16 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 17 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 18 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 19 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 20 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 21 | 1 | 333.3 | 9 | 1 |
|                |      | Type6 | 22 | 1 | 333.3 | 9 | 1 |

|                 |      |       |    |   |       |   |   |
|-----------------|------|-------|----|---|-------|---|---|
|                 |      | Type6 | 23 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 24 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 25 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 26 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 27 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 28 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 29 | 1 | 333.3 | 9 | 1 |
| 11AC16<br>0MIMO | 5250 | Type6 | 0  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 1  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 2  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 3  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 4  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 5  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 6  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 7  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 8  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 9  | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 10 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 11 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 12 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 13 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 14 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 15 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 16 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 17 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 18 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 19 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 20 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 21 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 22 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 23 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 24 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 25 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 26 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 27 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 28 | 1 | 333.3 | 9 | 1 |
|                 |      | Type6 | 29 | 1 | 333.3 | 9 | 1 |