



## DFS MEASUREMENT REPORT

**FCC ID:** Q9DAP21

**Applicant:** Hewlett Packard Enterprise Company

**Product:** ACCESS POINT

**Model No.:** APIN0503

**Marketing Name:** AP21

**Trade Mark:**  , 

**FCC Classification:** Unlicensed National Information Infrastructure (NII)

**FCC Rule Part(s):** Part 15 Subpart E (Section 15.407)

**Type of Device:** Master Device

**Result:** Complies

**Received Date:** 2023-08-25

**Test Date:** 2023-10-14 ~ 2023-10-16

**Reviewed By:**

*Jame Yuan*

Jame Yuan

**Approved By:**

*Robin Wu*

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 905462. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

## Revision History

| Report No.    | Version | Description    | Issue Date | Note  |
|---------------|---------|----------------|------------|-------|
| 2308RSU067-U4 | V01     | Initial Report | 2023-11-21 | Valid |
|               |         |                |            |       |

Note 1: The product is a variation on the existing APIN0503 that had FCC approval (FCC ID: Q9DAPIN0503).

The differences are shown in the table below.

| Parts of Product | Modification                                                                     |
|------------------|----------------------------------------------------------------------------------|
| Top Cover        | Yes, changed. ION style look.                                                    |
| Bottom Cover     | 1, Yes, changed. ION style look<br>2, Remove USB port<br>3, Add hole for DC jack |
| Antenna          | No Change                                                                        |
| PCB Top          | 1, Add DC Jack<br>2, Remove USB Port                                             |
| PCB Bottom       | Basically the same                                                               |

The applicant remeasured a set of antenna gain that slightly different than before.

| Frequency Range | Original Wi-Fi Antenna Gain | Current Wi-Fi Antenna Gain |
|-----------------|-----------------------------|----------------------------|
|                 | (dBi)                       | (dBi)                      |
| 2400 ~ 2480     | 1.5                         | 1.3                        |
| 5150 ~ 5895     | 3.9                         | 4.1                        |

Note 2: Most test data refer to original test report no. 2212RSU034-U4. Spot-check tests were done on these items (NII Detection Bandwidth and Statistical Performance Check) based on worst-case results reported in the original FCC ID filing.

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## 1. General Information

### 1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

## 1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

### 1.3. Testing Facility

|                                     |                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <b>Test Site – MRT Suzhou Laboratory</b>                                                                                                                                                                                                                                                                                                         |
|                                     | <b>Laboratory Location (Suzhou - Wuzhong)</b><br>D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China                                                                                                                                                                                                              |
|                                     | <b>Laboratory Location (Suzhou - SIP)</b><br>4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China                                                                                                                                                                                                        |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                                                                                 |
|                                     | A2LA: 3628.01<br>FCC: CN1166<br>VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020<br><input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104<br>CNAS: L10551<br>ISED: CN0001 |
| <input type="checkbox"/>            | <b>Test Site – MRT Shenzhen Laboratory</b>                                                                                                                                                                                                                                                                                                       |
|                                     | <b>Laboratory Location (Shenzhen)</b><br>1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China                                                                                                                                                                                                         |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                                                                                 |
|                                     | A2LA: 3628.02<br>FCC: CN1284<br>CNAS: L10551<br>ISED: CN0105                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/>            | <b>Test Site – MRT Taiwan Laboratory</b>                                                                                                                                                                                                                                                                                                         |
|                                     | <b>Laboratory Location (Taiwan)</b><br>No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)                                                                                                                                                                                                                                  |
|                                     | <b>Laboratory Accreditations</b>                                                                                                                                                                                                                                                                                                                 |
|                                     | TAF: 3261<br>FCC: 291082, TW3261<br>ISED: TW3261                                                                                                                                                                                                                                                                                                 |

#### 1.4. Product Information

|                                                                                                                                                         |                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Product Name                                                                                                                                            | ACCESS POINT                                                                                        |
| Model No.                                                                                                                                               | APIN0503                                                                                            |
| Marketing Name                                                                                                                                          | AP21                                                                                                |
| Serial No.                                                                                                                                              | CNQRM1C00C                                                                                          |
| Software Version                                                                                                                                        | ArubaOS 2.9.0.0_87081                                                                               |
| Wi-Fi Specification                                                                                                                                     | 802.11a/b/g/n/ac/ax                                                                                 |
| Power Type                                                                                                                                              | AC/DC Adapter or PoE Injector input                                                                 |
| Operating Temp.                                                                                                                                         | 0 ~ 40 °C                                                                                           |
| Operating Environment                                                                                                                                   | Indoor Use                                                                                          |
| Accessories                                                                                                                                             |                                                                                                     |
| AC/DC Adapter                                                                                                                                           | Model: WB-18Q12R<br>Input: 100-240V ~ 50/60Hz, 0.5A Max<br>Output: 12.0V, 1.5A, 18W                 |
| PoE Injector                                                                                                                                            | Model: PD-3501G/AC<br>Input: 100-240V AC ~ 50/60Hz, 0.43A<br>Output: 48V, 0.35A<br>QS-6555-01 N A21 |
| Notes:<br>The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. |                                                                                                     |

**1.5. Radio Specification under Test**

|                                               |                                                                                                                                                                                                                                  |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                               | For 802.11a/n-HT20/ac-VHT20/ax-HE20:<br>5260~5320MHz, 5500~5720MHz<br>For 802.11n-HT40/ac-VHT40/ax-HE40:<br>5270~5310MHz, 5510~5710MHz<br>For 802.11ac-VHT80/ax-HE80:<br>5290MHz, 5530MHz, 5610 MHz, 5690MHz                     |
| Type of Modulation                            | 802.11a/n/ac: OFDM<br>802.11ax: OFDMA                                                                                                                                                                                            |
| Data Rate                                     | 802.11a: 6/9/12/18/24/36/48/54Mbps<br>802.11n: up to 300Mbps<br>802.11ac: up to 866.6Mbps<br>802.11ax: up to 1201Mbps                                                                                                            |
| Uniform Spreading<br>(For DFS Frequency Band) | For the 5250-5350MHz, 5470-5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm. |

## 1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 52      | 5260 MHz  | 56      | 5280 MHz  | 60      | 5300 MHz  |
| 64      | 5320 MHz  | 100     | 5500 MHz  | 104     | 5520 MHz  |
| 108     | 5540 MHz  | 112     | 5560 MHz  | 116     | 5580 MHz  |
| 120     | 5600 MHz  | 124     | 5620 MHz  | 128     | 5640 MHz  |
| 132     | 5660 MHz  | 136     | 5680 MHz  | 140     | 5700 MHz  |
| 144     | 5720 MHz  | --      | --        | --      | --        |

802.11n-HT40/ac-VHT40/ax-HE40

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 54      | 5270 MHz  | 62      | 5310 MHz  | 102     | 5510 MHz  |
| 110     | 5550 MHz  | 118     | 5590 MHz  | 126     | 5630 MHz  |
| 134     | 5670 MHz  | 142     | 5710 MHz  | --      | --        |

802.11ac-VHT80/ax-HE80

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 58      | 5290 MHz  | 106     | 5530 MHz  | 122     | 5610 MHz  |
| 138     | 5690 MHz  | --      | --        | --      | --        |

## 1.7. Antenna Details

| Antenna Type | Frequency Band | Tx Paths | Uncorrelated Gain (dBi) | Correlated Gain (dBi) |
|--------------|----------------|----------|-------------------------|-----------------------|
| PIFA         | 2412 ~ 2462    | 2        | 1.30                    | 4.30                  |
| PIFA         | 5150 ~ 5850    | 2        | 4.10                    | 7.10                  |

Note 1: In accordance with KDB 662911 D01v02r01, uncorrelated directional gain was applied for calculating max conducted output power limit and correlated directional gain was applied for calculating PSD limit.

Note 2: The directional gain calculation refers to antenna report provided by the applicant.

## 2. Test Configuration

### 2.1. Test Mode

|                                 |
|---------------------------------|
| Mode 1: Operating under AP mode |
|---------------------------------|

### 2.2. Test Channel

| Test Mode     | Test Channel | Test Frequency |
|---------------|--------------|----------------|
| 802.11ax-HE80 | 106          | 5530 MHz       |

### 2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.407 Section (h)(2)
- KDB 905462 D02v02
- KDB 905462 D04v01

### 2.4. Test Environment Condition

|                     |            |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C  |
| Relative Humidity   | 20 ~ 75%RH |

### 3. DFS Detection Thresholds and Radar Test Waveforms

#### 3.1. Applicability

The following table from FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

| Requirement                     | Operational Mode |                                |                             |
|---------------------------------|------------------|--------------------------------|-----------------------------|
|                                 | Master           | Client Without Radar Detection | Client With Radar Detection |
| Non-Occupancy Period            | Yes              | Not required                   | Yes                         |
| DFS Detection Threshold         | Yes              | Not required                   | Yes                         |
| Channel Availability Check Time | Yes              | Not required                   | Not required                |
| U-NII Detection Bandwidth       | Yes              | Not required                   | Yes                         |

**Table 3-1: Applicability of DFS Requirements Prior to Use of a Channel**

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

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

**Table 3-2: Applicability of DFS Requirements during normal operation**

### 3.2. DFS Devices Requirements

**Per FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 the following are the requirements for Master Devices:**

- (a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands. DFS is not required in the 5150 ~ 5250 MHz or 5725 ~ 5825 MHz bands.
- (b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- (c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- (d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- (e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- (f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.
- (g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

**Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.**

| 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. 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 to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p> |                                                                                                        |

**Table 3-3: DFS Response Requirements**

### 3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring.

These detection thresholds are listed in the following table.

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

**Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection**

### 3.4. Parameters of DFS Test Signals

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.

#### 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 3-6                                                                    | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 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: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. |                    |                                                                                                                                                               |                                                                                                                                      |                                            |                          |

**Table 3-5: Parameters for Short Pulse Radar Waveforms**

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.

| Pulse Repetition Frequency<br>Number | Pulse Repetition Frequency<br>(Pulses Per Second) | Pulse Repetition Interval<br>(Microseconds) |
|--------------------------------------|---------------------------------------------------|---------------------------------------------|
| 1                                    | 1930.5                                            | 518                                         |
| 2                                    | 1858.7                                            | 538                                         |
| 3                                    | 1792.1                                            | 558                                         |
| 4                                    | 1730.1                                            | 578                                         |
| 5                                    | 1672.2                                            | 598                                         |
| 6                                    | 1618.1                                            | 618                                         |
| 7                                    | 1567.4                                            | 638                                         |
| 8                                    | 1519.8                                            | 658                                         |
| 9                                    | 1474.9                                            | 678                                         |
| 10                                   | 1432.7                                            | 698                                         |
| 11                                   | 1392.8                                            | 718                                         |
| 12                                   | 1355                                              | 738                                         |
| 13                                   | 1319.3                                            | 758                                         |
| 14                                   | 1285.3                                            | 778                                         |
| 15                                   | 1253.1                                            | 798                                         |
| 16                                   | 1222.5                                            | 818                                         |
| 17                                   | 1193.3                                            | 838                                         |
| 18                                   | 1165.6                                            | 858                                         |
| 19                                   | 1139                                              | 878                                         |
| 20                                   | 1113.6                                            | 898                                         |
| 21                                   | 1089.3                                            | 918                                         |
| 22                                   | 1066.1                                            | 938                                         |
| 23                                   | 326.2                                             | 3066                                        |

**Table 3-6: Pulse Repetition Intervals Values for Test A**

### Long Pulse Radar Test Waveform

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

**Table 3-7: Parameters for Long Pulse Radar Waveforms**

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.

### 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                       |

**Table 3-8: Parameters for Frequency Hopping Radar Waveforms**

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 the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724MHz. 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.

### 3.5. Conducted Test Setup

The FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.

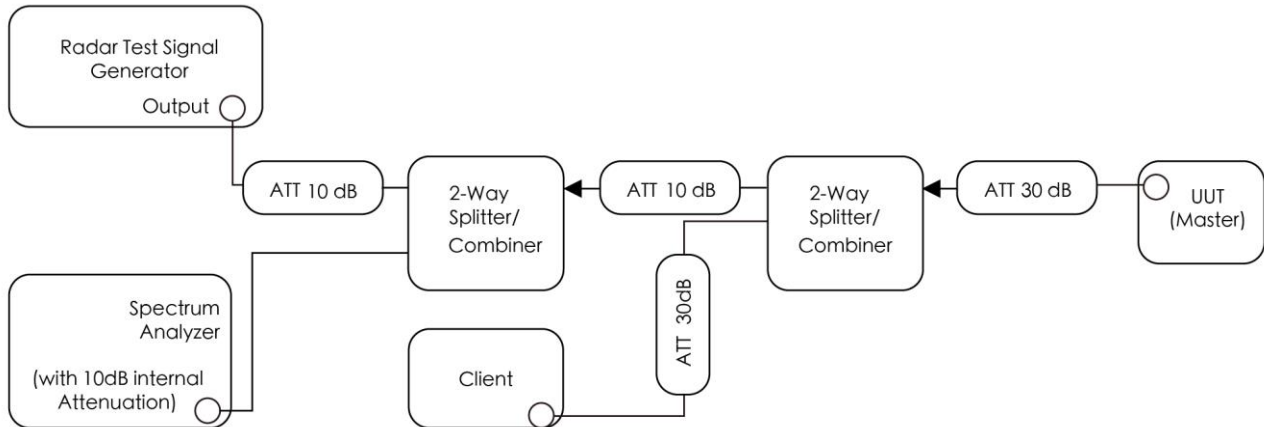


**Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters**

## 4. Measuring Instrument

Dynamic Frequency Selection – (WZ-TR4)

| Instrument       | Manufacturer | Type No. | Asset No.   | Cali. Interval | Cali. Due Date |
|------------------|--------------|----------|-------------|----------------|----------------|
| Signal Analyzer  | Keysight     | N9010B   | MRTSUE07027 | 1 year         | 2023-11-25     |
| Shielding Room   | HUAMING      | WZ-SR4   | MRTSUE06441 | N/A            | N/A            |
| Thermohygrometer | Testo        | 608-H1   | MRTSUE06222 | 1 year         | 2023-10-11     |
| Signal Generator | Keysight     | N5182B   | MRTSUE06451 | 1 year         | 2024-06-29     |

Client Information

| Instrument               | Manufacturer | Type No.                      |
|--------------------------|--------------|-------------------------------|
| Wireless Network Adapter | Intel        | Intel(R) Wi-Fi 6 AX200 160MHz |

| Software                                       | Version   | Manufacturer | Function                         |
|------------------------------------------------|-----------|--------------|----------------------------------|
| Pulse Building                                 | N/A       | Agilent      | Radar Signal Generation Software |
| DFS Tool                                       | V 6.9.2   | Agilent      | DFS Test Software                |
| N7607C Signal Studio for DFS<br>Radar Profiles | V 2.2.0.0 | Keysight     | DFS Test Software                |

## 5. Test Result

### 5.1. Summary

| Parameter                           | Verdict | Reference   |
|-------------------------------------|---------|-------------|
| NII Detection Bandwidth Measurement | Pass    | Section 5.3 |
| Statistical Performance Check       | Pass    | Section 5.4 |

Note: We used the worst case level -64dBm as DFS detection thresholds for all DFS testing.

## 5.2. Radar Waveform Calibration Measurement

### 5.2.1. Calibration Setup

The conducted test setup was used for this calibration testing. Figure 3-2 shows the typical test setup.

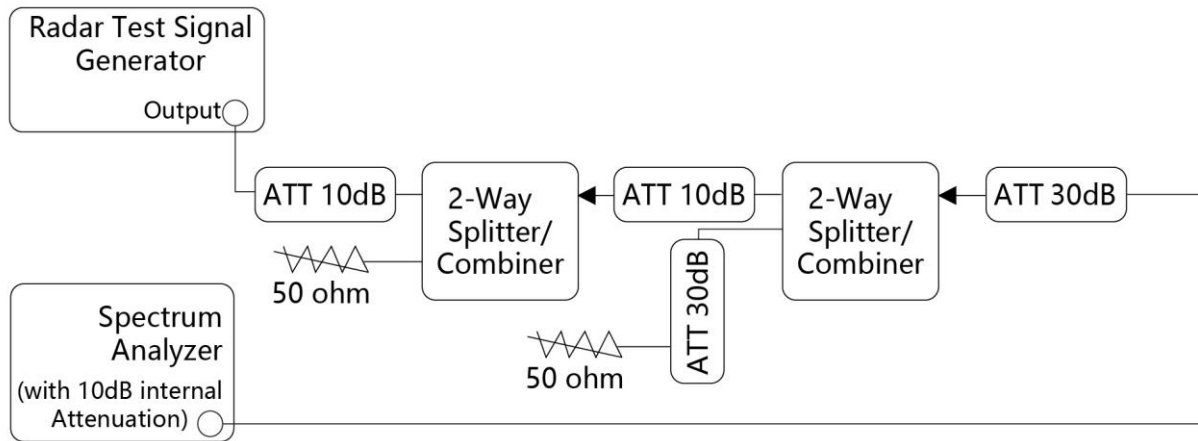


**Figure 3-2: Conducted Test Setup**

### 5.2.2. Calibration Procedure

The Interference Radar Detection Threshold Level is  $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$  that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (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 at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

### 5.2.3. Calibration & Channel Loading Result

Refer to Appendix A.1 & A.2.

### 5.3. NII Detection Bandwidth Measurement

#### 5.3.1. Test Limit

Minimum 100% of the NII 99% transmission power bandwidth. During the U-NII Detection Bandwidth detection test, each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

#### 5.3.2. Test Procedure

1. Adjust the equipment to produce a single Burst of any one of the Short Pulse Radar Types 0-4 in Table 3-5 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.
2. The generating equipment is configured as shown in the Conducted Test Setup above section 3.5.
3. The EUT is set up as a stand-alone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
4. Generate a single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion shown in Table 3-5. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.
5. 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 3-3. 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.
6. Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 1 MHz steps, repeating the above item 4 test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. 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.
7. The U-NII Detection Bandwidth is calculated as follows:  $\text{U-NII Detection Bandwidth} = \text{FH} - \text{FL}$
8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the

EUT does not comply with DFS requirements.

#### **5.3.3. Test Result**

Refer to Appendix A.3.

## 5.4. Statistical Performance Check Measurement

### 5.4.1. Test Limit

The minimum percentage of successful detection requirements found in below table 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).

| Radar Type                  | Minimum Number of Trails          | Detection Probability |
|-----------------------------|-----------------------------------|-----------------------|
| 0                           | 30                                | $P_d \geq 60\%$       |
| 1                           | 30(15 of test A and 15 of test B) | $P_d \geq 60\%$       |
| 2                           | 30                                | $P_d \geq 60\%$       |
| 3                           | 30                                | $P_d \geq 60\%$       |
| 4                           | 30                                | $P_d \geq 60\%$       |
| Aggregate (Radar Types 1-4) | 120                               | $P_d \geq 80\%$       |
| 5                           | 30                                | $P_d \geq 80\%$       |
| 6                           | 30                                | $P_d \geq 70\%$       |

Note: The percentage of successful detection is calculated by:  
 $(\text{Total Waveform Detections} / \text{Total Waveform Trails}) * 100 = \text{Probability of Detection Radar Waveform In}$   
 addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:  $(P_{d1} + P_{d2} + P_{d3} + P_{d4}) / 4$ .

### 5.4.2. Test Procedure

1. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
2. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 0 to ensure detection occurs.
4. Observe the transmissions of the EUT 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.
5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
6. The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in below table

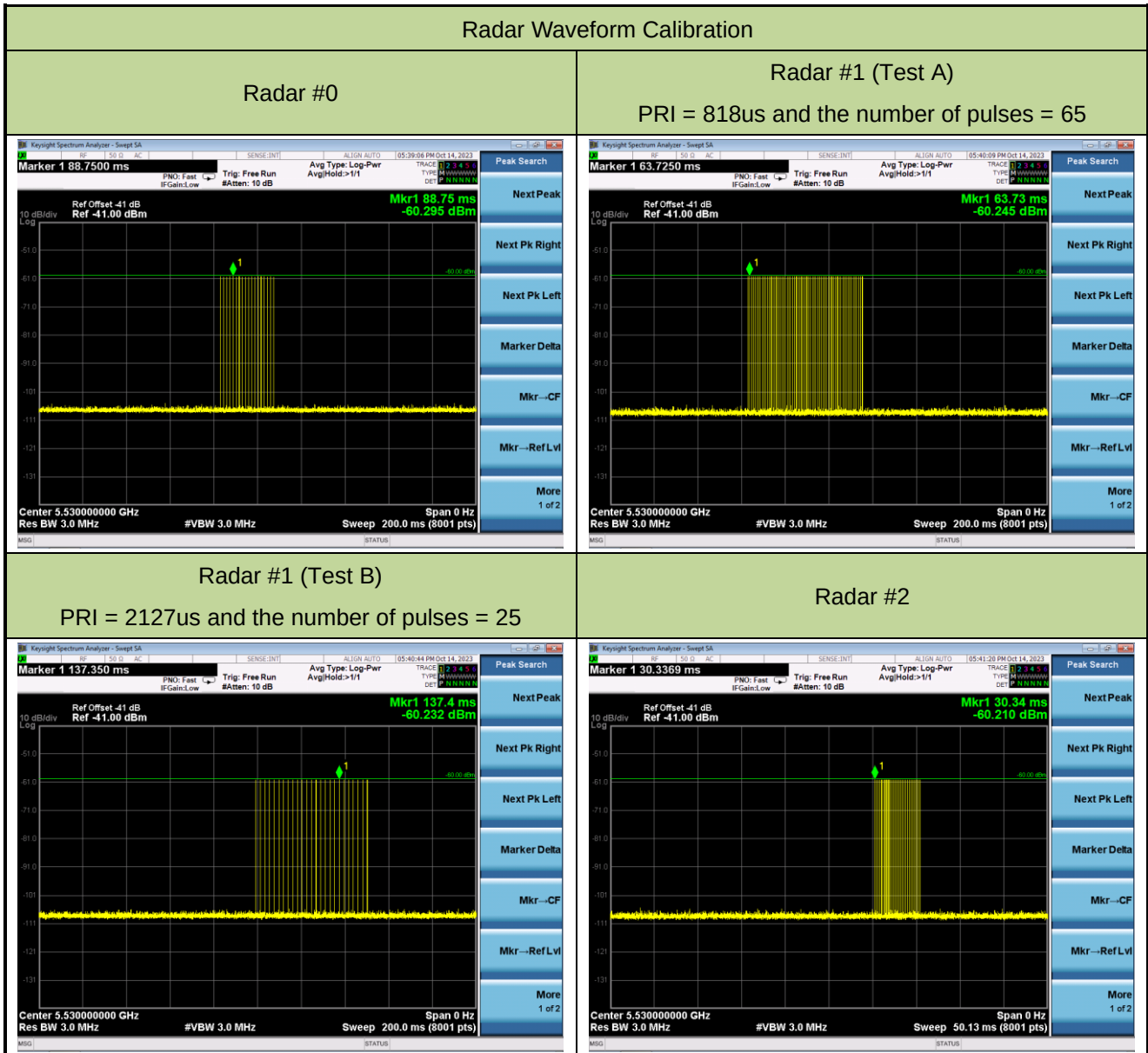
### 5.4.3. Test Result

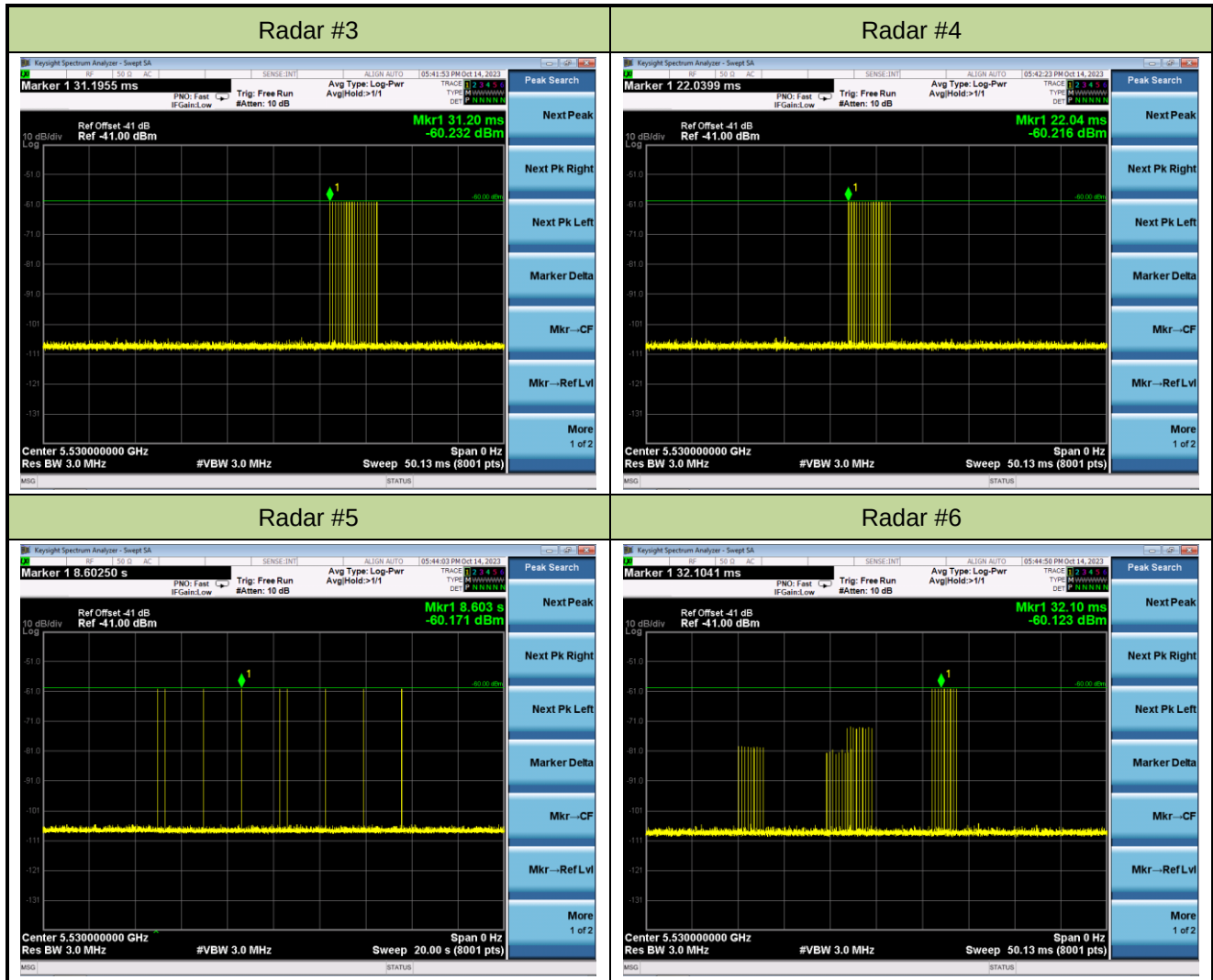
Refer to Appendix A.4.

## Appendix A – Test Result

### A.1 Calibration Test Result

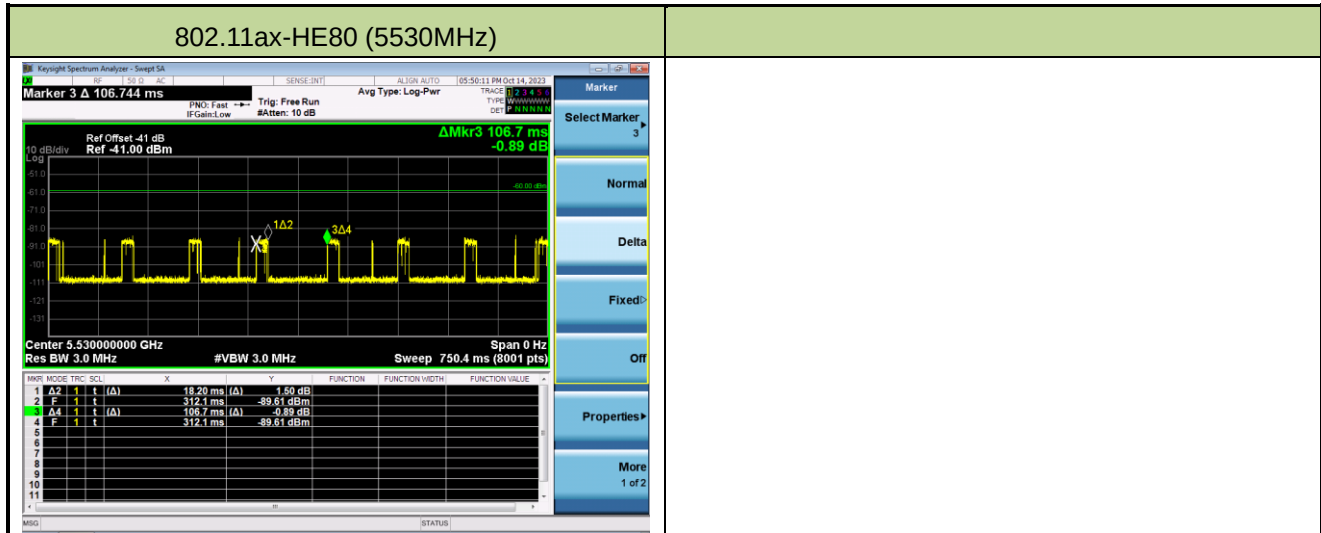
|           |            |               |                            |
|-----------|------------|---------------|----------------------------|
| Test Site | WZ-SR4     | Test Engineer | Jake Lan                   |
| Test Date | 2023-10-14 | Test Item     | Radar Waveform Calibration |





## A.2 Channel Loading Test Result

|           |            |               |                 |
|-----------|------------|---------------|-----------------|
| Test Site | WZ-SR4     | Test Engineer | Jake Lan        |
| Test Date | 2023-10-14 | Test Item     | Channel Loading |



| Test Mode     | Test Frequency | Packet ratio | Requirement ratio | Test Result |
|---------------|----------------|--------------|-------------------|-------------|
| 802.11ax-HE80 | 5530 MHz       | 17.06%       | ≥ 17%             | Pass        |

Note: System testing was performed with the designated iperf test file. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device.

Packet ratio = Time On / (Time On + Off Time).

### A.3 NII Detection Bandwidth Test Result

|           |                                                    |               |          |
|-----------|----------------------------------------------------|---------------|----------|
| Test Site | WZ-SR4                                             | Test Engineer | Jake Lan |
| Test Date | 2023-10-14                                         |               |          |
| Test Item | Detection Bandwidth (802.11ax-HE80 mode - 5530MHz) |               |          |

| Radar Frequency<br>(MHz) | DFS Detection Trials (1=Detection, 0= No Detection) |   |   |   |   |   |   |   |   |    | Detection Rate (%) |
|--------------------------|-----------------------------------------------------|---|---|---|---|---|---|---|---|----|--------------------|
|                          | 1                                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                    |
| 5490                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |
| 5491 FL                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5492                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5493                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5494                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5495                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5500                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5505                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5510                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5515                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5520                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5525                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5530                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5535                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5540                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5545                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5550                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5555                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5560                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5565                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5566                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5567                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5568                     | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5569 FH                  | 1                                                   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100%               |
| 5570                     | 0                                                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0%                 |

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5530MHz. The 99% channel bandwidth is 76.887MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = FH - FL = 5569MHz - 5491MHz = 78MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 76.887MHz x 100% = 76.887MHz.

#### A.4 Statistical Performance Check

|           |                                                               |               |          |
|-----------|---------------------------------------------------------------|---------------|----------|
| Test Site | WZ-SR4                                                        | Test Engineer | Jake Lan |
| Test Date | 2023-10-16                                                    |               |          |
| Test Item | Radar Statistical Performance Check (802.11ax-HE80 – 5530MHz) |               |          |

| Radar Type 1-4 - Radar Statistical Performance |                        |                            |                     |                            |                     |                            |                     |                            |
|------------------------------------------------|------------------------|----------------------------|---------------------|----------------------------|---------------------|----------------------------|---------------------|----------------------------|
| Trial                                          | Radar Type 1           |                            | Radar Type 2        |                            | Radar Type 3        |                            | Radar Type 4        |                            |
|                                                | Frequen<br>cy<br>(MHz) | 1=detect<br>0=no<br>detect | Frequenc<br>y (MHz) | 1=detect<br>0=no<br>detect | Frequenc<br>y (MHz) | 1=detect<br>0=no<br>detect | Frequenc<br>y (MHz) | 1=detect<br>0=no<br>detect |
| 0                                              | 5553                   | 1                          | 5567                | 1                          | 5517                | 1                          | 5509                | 1                          |
| 1                                              | 5509                   | 1                          | 5498                | 1                          | 5498                | 1                          | 5516                | 1                          |
| 2                                              | 5503                   | 1                          | 5538                | 1                          | 5526                | 1                          | 5494                | 1                          |
| 3                                              | 5556                   | 1                          | 5546                | 1                          | 5567                | 1                          | 5533                | 1                          |
| 4                                              | 5533                   | 1                          | 5530                | 1                          | 5531                | 1                          | 5491                | 1                          |
| 5                                              | 5569                   | 0                          | 5554                | 1                          | 5505                | 1                          | 5502                | 0                          |
| 6                                              | 5521                   | 1                          | 5522                | 0                          | 5551                | 1                          | 5528                | 1                          |
| 7                                              | 5543                   | 1                          | 5521                | 1                          | 5525                | 1                          | 5502                | 1                          |
| 8                                              | 5491                   | 1                          | 5514                | 1                          | 5539                | 1                          | 5532                | 0                          |
| 9                                              | 5552                   | 0                          | 5553                | 1                          | 5518                | 1                          | 5498                | 1                          |
| 10                                             | 5561                   | 0                          | 5558                | 1                          | 5547                | 1                          | 5550                | 1                          |
| 11                                             | 5502                   | 1                          | 5510                | 1                          | 5530                | 1                          | 5525                | 0                          |
| 12                                             | 5512                   | 1                          | 5517                | 1                          | 5506                | 1                          | 5552                | 1                          |
| 13                                             | 5537                   | 1                          | 5562                | 1                          | 5553                | 1                          | 5533                | 1                          |
| 14                                             | 5519                   | 1                          | 5519                | 1                          | 5565                | 1                          | 5496                | 0                          |
| 15                                             | 5505                   | 1                          | 5523                | 0                          | 5546                | 0                          | 5530                | 1                          |
| 16                                             | 5529                   | 1                          | 5502                | 1                          | 5569                | 1                          | 5521                | 1                          |
| 17                                             | 5525                   | 1                          | 5532                | 0                          | 5541                | 1                          | 5567                | 1                          |
| 18                                             | 5530                   | 1                          | 5535                | 1                          | 5566                | 0                          | 5569                | 1                          |
| 19                                             | 5541                   | 1                          | 5499                | 1                          | 5515                | 0                          | 5559                | 1                          |
| 20                                             | 5509                   | 1                          | 5562                | 1                          | 5548                | 1                          | 5526                | 1                          |
| 21                                             | 5494                   | 1                          | 5505                | 1                          | 5520                | 1                          | 5512                | 1                          |
| 22                                             | 5527                   | 1                          | 5520                | 1                          | 5491                | 1                          | 5542                | 1                          |
| 23                                             | 5514                   | 1                          | 5491                | 1                          | 5561                | 0                          | 5506                | 1                          |
| 24                                             | 5504                   | 1                          | 5555                | 1                          | 5568                | 1                          | 5505                | 1                          |
| 25                                             | 5539                   | 1                          | 5519                | 0                          | 5514                | 1                          | 5555                | 0                          |

| Radar Type 1-4 - Radar Statistical Performance |                        |                            |                     |                            |                     |                            |                     |                            |
|------------------------------------------------|------------------------|----------------------------|---------------------|----------------------------|---------------------|----------------------------|---------------------|----------------------------|
| Trial                                          | Radar Type 1           |                            | Radar Type 2        |                            | Radar Type 3        |                            | Radar Type 4        |                            |
|                                                | Frequen<br>cy<br>(MHz) | 1=detect<br>0=no<br>detect | Frequenc<br>y (MHz) | 1=detect<br>0=no<br>detect | Frequenc<br>y (MHz) | 1=detect<br>0=no<br>detect | Frequenc<br>y (MHz) | 1=detect<br>0=no<br>detect |
| 26                                             | 5520                   | 1                          | 5512                | 1                          | 5515                | 1                          | 5503                | 0                          |
| 27                                             | 5554                   | 1                          | 5561                | 0                          | 5540                | 0                          | 5560                | 1                          |
| 28                                             | 5563                   | 1                          | 5499                | 1                          | 5500                | 1                          | 5534                | 1                          |
| 29                                             | 5566                   | 1                          | 5569                | 1                          | 5533                | 1                          | 5513                | 1                          |
| Probability:                                   | 90.0%                  |                            | 83.3%               |                            | 83.3%               |                            | 80.0%               |                            |
| Aggregate:                                     | 84.2% ( $\geq 80\%$ )  |                            |                     |                            |                     |                            |                     |                            |

| Radar Type 1 - Radar Waveform |          |            |                  |          |                  |                      | Radar Type 2 - Radar Waveform |          |            |                  |          |                  |                      |
|-------------------------------|----------|------------|------------------|----------|------------------|----------------------|-------------------------------|----------|------------|------------------|----------|------------------|----------------------|
|                               | Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |                               | Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
| Download                      | 0        | Type 1     | 1.0              | 878.0    | 61               | 53558.0              | Download                      | 0        | Type 2     | 4.3              | 154.0    | 28               | 4312.0               |
| Download                      | 1        | Type 1     | 1.0              | 858.0    | 62               | 53196.0              | Download                      | 1        | Type 2     | 1.9              | 202.0    | 24               | 4848.0               |
| Download                      | 2        | Type 1     | 1.0              | 818.0    | 65               | 53170.0              | Download                      | 2        | Type 2     | 1.4              | 172.0    | 23               | 3956.0               |
| Download                      | 3        | Type 1     | 1.0              | 838.0    | 63               | 52794.0              | Download                      | 3        | Type 2     | 5.0              | 186.0    | 29               | 5394.0               |
| Download                      | 4        | Type 1     | 1.0              | 738.0    | 72               | 53136.0              | Download                      | 4        | Type 2     | 4.5              | 195.0    | 28               | 5460.0               |
| Download                      | 5        | Type 1     | 1.0              | 758.0    | 70               | 53060.0              | Download                      | 5        | Type 2     | 2.8              | 163.0    | 26               | 4238.0               |
| Download                      | 6        | Type 1     | 1.0              | 658.0    | 81               | 53298.0              | Download                      | 6        | Type 2     | 4.8              | 213.0    | 29               | 6177.0               |
| Download                      | 7        | Type 1     | 1.0              | 798.0    | 67               | 53466.0              | Download                      | 7        | Type 2     | 2.9              | 212.0    | 26               | 5512.0               |
| Download                      | 8        | Type 1     | 1.0              | 618.0    | 86               | 53148.0              | Download                      | 8        | Type 2     | 2.7              | 191.0    | 26               | 4966.0               |
| Download                      | 9        | Type 1     | 1.0              | 598.0    | 89               | 53222.0              | Download                      | 9        | Type 2     | 3.6              | 215.0    | 27               | 5805.0               |
| Download                      | 10       | Type 1     | 1.0              | 558.0    | 95               | 53010.0              | Download                      | 10       | Type 2     | 1.3              | 166.0    | 23               | 3818.0               |
| Download                      | 11       | Type 1     | 1.0              | 678.0    | 78               | 52884.0              | Download                      | 11       | Type 2     | 1.1              | 159.0    | 23               | 3657.0               |
| Download                      | 12       | Type 1     | 1.0              | 538.0    | 99               | 53262.0              | Download                      | 12       | Type 2     | 4.3              | 188.0    | 28               | 5264.0               |
| Download                      | 13       | Type 1     | 1.0              | 778.0    | 68               | 52904.0              | Download                      | 13       | Type 2     | 2.9              | 170.0    | 26               | 4420.0               |
| Download                      | 14       | Type 1     | 1.0              | 578.0    | 92               | 53176.0              | Download                      | 14       | Type 2     | 4.0              | 190.0    | 28               | 5320.0               |
| Download                      | 15       | Type 1     | 1.0              | 661.0    | 80               | 52880.0              | Download                      | 15       | Type 2     | 4.1              | 219.0    | 28               | 6132.0               |
| Download                      | 16       | Type 1     | 1.0              | 2955.0   | 18               | 53190.0              | Download                      | 16       | Type 2     | 1.1              | 194.0    | 23               | 4462.0               |
| Download                      | 17       | Type 1     | 1.0              | 931.0    | 57               | 53067.0              | Download                      | 17       | Type 2     | 4.5              | 187.0    | 29               | 5423.0               |
| Download                      | 18       | Type 1     | 1.0              | 2029.0   | 27               | 54783.0              | Download                      | 18       | Type 2     | 2.2              | 203.0    | 25               | 5075.0               |
| Download                      | 19       | Type 1     | 1.0              | 688.0    | 77               | 52976.0              | Download                      | 19       | Type 2     | 3.5              | 217.0    | 27               | 5859.0               |
| Download                      | 20       | Type 1     | 1.0              | 1565.0   | 34               | 53210.0              | Download                      | 20       | Type 2     | 4.5              | 181.0    | 28               | 5068.0               |
| Download                      | 21       | Type 1     | 1.0              | 2127.0   | 25               | 53175.0              | Download                      | 21       | Type 2     | 3.3              | 209.0    | 27               | 5643.0               |
| Download                      | 22       | Type 1     | 1.0              | 1670.0   | 32               | 53440.0              | Download                      | 22       | Type 2     | 4.7              | 206.0    | 29               | 5974.0               |
| Download                      | 23       | Type 1     | 1.0              | 1211.0   | 44               | 53284.0              | Download                      | 23       | Type 2     | 4.5              | 200.0    | 29               | 5800.0               |
| Download                      | 24       | Type 1     | 1.0              | 1838.0   | 29               | 53302.0              | Download                      | 24       | Type 2     | 3.6              | 150.0    | 27               | 4050.0               |
| Download                      | 25       | Type 1     | 1.0              | 555.0    | 96               | 53280.0              | Download                      | 25       | Type 2     | 3.4              | 204.0    | 27               | 5508.0               |
| Download                      | 26       | Type 1     | 1.0              | 695.0    | 76               | 52820.0              | Download                      | 26       | Type 2     | 3.2              | 167.0    | 26               | 4342.0               |
| Download                      | 27       | Type 1     | 1.0              | 2725.0   | 20               | 54500.0              | Download                      | 27       | Type 2     | 2.8              | 214.0    | 26               | 5564.0               |
| Download                      | 28       | Type 1     | 1.0              | 2964.0   | 18               | 53352.0              | Download                      | 28       | Type 2     | 2.1              | 211.0    | 24               | 5064.0               |
| Download                      | 29       | Type 1     | 1.0              | 2061.0   | 26               | 53586.0              | Download                      | 29       | Type 2     | 3.4              | 162.0    | 27               | 4374.0               |

| Radar Type 3 - Radar Waveform |          |            |                  |          |                  |                      | Radar Type 4 - Radar Waveform |          |            |                  |          |                  |                      |
|-------------------------------|----------|------------|------------------|----------|------------------|----------------------|-------------------------------|----------|------------|------------------|----------|------------------|----------------------|
|                               | Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |                               | Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
| Download                      | 0        | Type 3     | 9.3              | 491.0    | 18               | 8838.0               | Download                      | 0        | Type 4     | 18.3             | 491.0    | 16               | 7856.0               |
| Download                      | 1        | Type 3     | 6.9              | 459.0    | 16               | 7344.0               | Download                      | 1        | Type 4     | 13.0             | 459.0    | 13               | 5967.0               |
| Download                      | 2        | Type 3     | 6.4              | 331.0    | 16               | 5296.0               | Download                      | 2        | Type 4     | 12.0             | 331.0    | 12               | 3972.0               |
| Download                      | 3        | Type 3     | 10.0             | 300.0    | 18               | 5400.0               | Download                      | 3        | Type 4     | 20.0             | 300.0    | 16               | 4800.0               |
| Download                      | 4        | Type 3     | 9.5              | 398.0    | 18               | 7164.0               | Download                      | 4        | Type 4     | 18.7             | 398.0    | 16               | 6368.0               |
| Download                      | 5        | Type 3     | 7.8              | 266.0    | 17               | 4522.0               | Download                      | 5        | Type 4     | 15.0             | 266.0    | 14               | 3724.0               |
| Download                      | 6        | Type 3     | 9.8              | 247.0    | 18               | 4446.0               | Download                      | 6        | Type 4     | 19.4             | 247.0    | 16               | 3952.0               |
| Download                      | 7        | Type 3     | 7.9              | 229.0    | 17               | 3893.0               | Download                      | 7        | Type 4     | 15.3             | 229.0    | 14               | 3206.0               |
| Download                      | 8        | Type 3     | 7.7              | 484.0    | 17               | 8228.0               | Download                      | 8        | Type 4     | 14.9             | 484.0    | 14               | 6776.0               |
| Download                      | 9        | Type 3     | 8.6              | 347.0    | 17               | 5899.0               | Download                      | 9        | Type 4     | 16.8             | 347.0    | 15               | 5205.0               |
| Download                      | 10       | Type 3     | 6.3              | 289.0    | 16               | 4624.0               | Download                      | 10       | Type 4     | 11.8             | 289.0    | 12               | 3468.0               |
| Download                      | 11       | Type 3     | 6.1              | 257.0    | 16               | 4112.0               | Download                      | 11       | Type 4     | 11.2             | 257.0    | 12               | 3084.0               |
| Download                      | 12       | Type 3     | 9.3              | 261.0    | 18               | 4698.0               | Download                      | 12       | Type 4     | 18.3             | 261.0    | 16               | 4176.0               |
| Download                      | 13       | Type 3     | 7.9              | 470.0    | 17               | 7990.0               | Download                      | 13       | Type 4     | 15.2             | 470.0    | 14               | 6580.0               |
| Download                      | 14       | Type 3     | 9.0              | 339.0    | 18               | 6102.0               | Download                      | 14       | Type 4     | 17.8             | 339.0    | 15               | 5085.0               |
| Download                      | 15       | Type 3     | 9.1              | 238.0    | 18               | 4284.0               | Download                      | 15       | Type 4     | 18.0             | 238.0    | 15               | 3570.0               |
| Download                      | 16       | Type 3     | 6.1              | 222.0    | 16               | 3552.0               | Download                      | 16       | Type 4     | 11.3             | 222.0    | 12               | 2664.0               |
| Download                      | 17       | Type 3     | 9.5              | 424.0    | 18               | 7632.0               | Download                      | 17       | Type 4     | 18.9             | 424.0    | 16               | 6784.0               |
| Download                      | 18       | Type 3     | 7.2              | 361.0    | 16               | 5776.0               | Download                      | 18       | Type 4     | 13.8             | 361.0    | 13               | 4893.0               |
| Download                      | 19       | Type 3     | 8.5              | 375.0    | 17               | 6375.0               | Download                      | 19       | Type 4     | 16.6             | 375.0    | 15               | 5625.0               |
| Download                      | 20       | Type 3     | 9.5              | 477.0    | 18               | 8586.0               | Download                      | 20       | Type 4     | 18.7             | 477.0    | 16               | 7632.0               |
| Download                      | 21       | Type 3     | 8.3              | 475.0    | 17               | 8075.0               | Download                      | 21       | Type 4     | 16.2             | 475.0    | 14               | 6650.0               |
| Download                      | 22       | Type 3     | 9.7              | 387.0    | 18               | 6966.0               | Download                      | 22       | Type 4     | 19.4             | 387.0    | 16               | 6192.0               |
| Download                      | 23       | Type 3     | 9.5              | 212.0    | 18               | 3816.0               | Download                      | 23       | Type 4     | 18.9             | 212.0    | 16               | 3392.0               |
| Download                      | 24       | Type 3     | 8.6              | 226.0    | 17               | 3842.0               | Download                      | 24       | Type 4     | 16.9             | 226.0    | 15               | 3390.0               |
| Download                      | 25       | Type 3     | 8.4              | 433.0    | 17               | 7361.0               | Download                      | 25       | Type 4     | 16.3             | 433.0    | 14               | 6062.0               |
| Download                      | 26       | Type 3     | 8.2              | 304.0    | 17               | 5168.0               | Download                      | 26       | Type 4     | 16.0             | 304.0    | 14               | 4256.0               |
| Download                      | 27       | Type 3     | 7.8              | 396.0    | 17               | 6732.0               | Download                      | 27       | Type 4     | 15.1             | 396.0    | 14               | 5544.0               |
| Download                      | 28       | Type 3     | 7.1              | 461.0    | 16               | 7376.0               | Download                      | 28       | Type 4     | 13.4             | 461.0    | 13               | 5993.0               |
| Download                      | 29       | Type 3     | 8.4              | 214.0    | 17               | 3638.0               | Download                      | 29       | Type 4     | 16.4             | 214.0    | 14               | 2996.0               |

| Radar Type 5 - Radar Statistical Performance |                     |                               |         |                     |                               |
|----------------------------------------------|---------------------|-------------------------------|---------|---------------------|-------------------------------|
| Trail #                                      | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection | Trail # | Test Freq.<br>(MHz) | 1=Detection<br>0=No Detection |
| 0                                            | 5530                | 1                             | 15      | 5497.8              | 1                             |
| 1                                            | 5530                | 0                             | 16      | 5493                | 1                             |
| 2                                            | 5530                | 1                             | 17      | 5498.6              | 1                             |
| 3                                            | 5530                | 1                             | 18      | 5494.6              | 0                             |
| 4                                            | 5530                | 1                             | 19      | 5496.6              | 1                             |
| 5                                            | 5530                | 1                             | 20      | 5561.8              | 1                             |
| 6                                            | 5530                | 1                             | 21      | 5563.4              | 1                             |
| 7                                            | 5530                | 1                             | 22      | 5561.4              | 1                             |
| 8                                            | 5530                | 1                             | 23      | 5561.4              | 1                             |
| 9                                            | 5530                | 1                             | 24      | 5563                | 1                             |
| 10                                           | 5493.4              | 1                             | 25      | 5563.4              | 1                             |
| 11                                           | 5493                | 1                             | 26      | 5563.8              | 1                             |
| 12                                           | 5497.8              | 1                             | 27      | 5564.2              | 1                             |
| 13                                           | 5495.8              | 1                             | 28      | 5565.4              | 0                             |
| 14                                           | 5497.8              | 1                             | 29      | 5563.4              | 1                             |
| Detection Percentage (%)                     |                     |                               | 90.0%   |                     |                               |

## Type 5 Radar Waveform\_0

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 33788.0           | 90.5             | 17                | 3                          | 1307.0     | 1709.0     | 1415.0     |
| 195357.0          | 61.0             | 17                | 1                          | 1174.0     | -          | -          |
| 356747.0          | 55.6             | 17                | 1                          | 1198.0     | -          | -          |
| 515512.0          | 99.6             | 17                | 3                          | 1208.0     | 1999.0     | 1371.0     |
| 14003.0           | 92.8             | 17                | 3                          | 1938.0     | 1125.0     | 1425.0     |
| 174985.0          | 72.4             | 17                | 2                          | 1583.0     | 1453.0     | -          |
| 335517.0          | 96.6             | 17                | 3                          | 1140.0     | 1637.0     | 1086.0     |
| 497191.0          | 73.8             | 17                | 2                          | 1319.0     | 1312.0     | -          |
| 658167.0          | 71.8             | 17                | 2                          | 1260.0     | 1445.0     | -          |
| 155115.0          | 82.3             | 17                | 2                          | 1821.0     | 1403.0     | -          |
| 316684.0          | 54.6             | 17                | 1                          | 1833.0     | -          | -          |
| 478482.0          | 51.6             | 17                | 1                          | 1061.0     | -          | -          |
| 635730.0          | 90.3             | 17                | 3                          | 1968.0     | 1904.0     | 1539.0     |
| 135351.0          | 73.3             | 17                | 2                          | 1410.0     | 1542.0     | -          |
| 295409.0          | 87.8             | 17                | 3                          | 1457.0     | 1662.0     | 1879.0     |
| 456106.0          | 88.7             | 17                | 3                          | 1372.0     | 1692.0     | 1613.0     |
| 619678.0          | 52.1             | 17                | 1                          | 1436.0     | -          | -          |
| 115346.0          | 93.9             | 17                | 3                          | 1016.0     | 1620.0     | 1330.0     |

## Type 5 Radar Waveform\_1

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 499222.0          | 65.5             | 8                 | 1                          | 1636.0     | -          | -          |
| 789510.0          | 81.3             | 8                 | 2                          | 1071.0     | 1100.0     | -          |
| 1077671.0         | 92.8             | 8                 | 3                          | 1656.0     | 1475.0     | 1646.0     |
| 172703.0          | 78.8             | 8                 | 2                          | 1092.0     | 1079.0     | -          |
| 462340.0          | 96.4             | 8                 | 3                          | 1405.0     | 1803.0     | 1224.0     |
| 752541.0          | 93.9             | 8                 | 3                          | 1073.0     | 1080.0     | 1902.0     |
| 1043484.0         | 82.9             | 8                 | 2                          | 1906.0     | 1129.0     | -          |
| 136835.0          | 79.6             | 8                 | 2                          | 1607.0     | 1296.0     | -          |
| 426997.0          | 78.0             | 8                 | 2                          | 1924.0     | 1460.0     | -          |
| 717078.0          | 72.8             | 8                 | 2                          | 1963.0     | 1649.0     | -          |

## Type 5 Radar Waveform\_2

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 1121128.0         | 63.6             | 6                 | 1                          | 1670.0     | -          | -          |
| 112297.0          | 80.0             | 6                 | 2                          | 1959.0     | 1334.0     | -          |
| 435059.0          | 79.3             | 6                 | 2                          | 1450.0     | 1277.0     | -          |
| 758385.0          | 60.1             | 6                 | 1                          | 1652.0     | -          | -          |
| 1081438.0         | 59.5             | 6                 | 1                          | 1556.0     | -          | -          |
| 72487.0           | 97.0             | 6                 | 3                          | 1694.0     | 1183.0     | 1811.0     |
| 395598.0          | 58.2             | 6                 | 1                          | 1750.0     | -          | -          |
| 717162.0          | 91.7             | 6                 | 3                          | 1303.0     | 1430.0     | 1588.0     |
| 1039333.0         | 85.9             | 6                 | 3                          | 1575.0     | 1812.0     | 1134.0     |

## Type 5 Radar Waveform\_3

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 14695.0           | 85.9             | 20                | 3                          | 1609.0     | 1835.0     | 1233.0     |
| 159556.0          | 67.4             | 20                | 2                          | 1842.0     | 1050.0     | -          |
| 303811.0          | 91.4             | 20                | 3                          | 1472.0     | 1039.0     | 1484.0     |
| 448627.0          | 80.4             | 20                | 2                          | 1831.0     | 1810.0     | -          |
| 595568.0          | 53.6             | 20                | 1                          | 1324.0     | -          | -          |
| 142010.0          | 62.5             | 20                | 1                          | 1661.0     | -          | -          |
| 285886.0          | 99.9             | 20                | 3                          | 1176.0     | 1363.0     | 1706.0     |
| 432006.0          | 66.0             | 20                | 1                          | 1988.0     | -          | -          |
| 574703.0          | 96.7             | 20                | 3                          | 1712.0     | 1689.0     | 1011.0     |
| 123855.0          | 67.9             | 20                | 2                          | 1631.0     | 1381.0     | -          |
| 268848.0          | 67.1             | 20                | 2                          | 1151.0     | 1406.0     | -          |
| 414281.0          | 52.0             | 20                | 1                          | 1785.0     | -          | -          |
| 559267.0          | 56.9             | 20                | 1                          | 1892.0     | -          | -          |
| 106329.0          | 53.2             | 20                | 1                          | 1271.0     | -          | -          |
| 251294.0          | 53.6             | 20                | 1                          | 1856.0     | -          | -          |
| 394204.0          | 83.4             | 20                | 3                          | 1954.0     | 1272.0     | 1888.0     |
| 539241.0          | 90.5             | 20                | 3                          | 1486.0     | 1464.0     | 1326.0     |
| 88430.0           | 56.5             | 20                | 1                          | 1354.0     | -          | -          |
| 233441.0          | 61.6             | 20                | 1                          | 1816.0     | -          | -          |
| 378599.0          | 64.7             | 20                | 1                          | 1690.0     | -          | -          |

## Type 5 Radar Waveform\_4

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 551157.0          | 61.8             | 18                | 1                          | 1909.0     | -          | -          |
| 74208.0           | 66.6             | 18                | 1                          | 1864.0     | -          | -          |
| 227005.0          | 63.2             | 18                | 1                          | 1664.0     | -          | -          |
| 377847.0          | 94.4             | 18                | 3                          | 1795.0     | 1074.0     | 2000.0     |
| 531300.0          | 73.8             | 18                | 2                          | 1370.0     | 1777.0     | -          |
| 55415.0           | 60.2             | 18                | 1                          | 1640.0     | -          | -          |
| 206943.0          | 91.8             | 18                | 3                          | 1852.0     | 1697.0     | 1878.0     |
| 361312.0          | 53.0             | 18                | 1                          | 1052.0     | -          | -          |
| 511100.0          | 94.5             | 18                | 3                          | 1755.0     | 1458.0     | 1682.0     |
| 36419.0           | 92.1             | 18                | 3                          | 1703.0     | 1952.0     | 1032.0     |
| 188731.0          | 93.4             | 18                | 3                          | 1067.0     | 1185.0     | 1532.0     |
| 342408.0          | 65.1             | 18                | 1                          | 1175.0     | -          | -          |
| 493046.0          | 96.1             | 18                | 3                          | 1840.0     | 1197.0     | 1009.0     |
| 17787.0           | 52.7             | 18                | 1                          | 1298.0     | -          | -          |
| 170585.0          | 66.2             | 18                | 1                          | 1536.0     | -          | -          |
| 323059.0          | 76.5             | 18                | 2                          | 1033.0     | 1149.0     | -          |
| 475043.0          | 74.2             | 18                | 2                          | 1220.0     | 1841.0     | -          |
| 628877.0          | 50.8             | 18                | 1                          | 1660.0     | -          | -          |
| 151164.0          | 89.2             | 18                | 3                          | 1368.0     | 1638.0     | 1018.0     |

## Type 5 Radar Waveform\_5

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 445615.0          | 66.2             | 12                | 1                          | 1257.0     | —          | —          |
| 667079.0          | 96.5             | 12                | 3                          | 1510.0     | 1396.0     | 1253.0     |
| 890756.0          | 77.8             | 12                | 2                          | 1687.0     | 1635.0     | —          |
| 193693.0          | 86.2             | 12                | 3                          | 1826.0     | 1898.0     | 1387.0     |
| 418084.0          | 61.7             | 12                | 1                          | 1240.0     | —          | —          |
| 641669.0          | 60.8             | 12                | 1                          | 1226.0     | —          | —          |
| 864355.0          | 70.7             | 12                | 2                          | 1128.0     | 1048.0     | —          |
| 166927.0          | 56.6             | 12                | 1                          | 1479.0     | —          | —          |
| 389893.0          | 76.7             | 12                | 2                          | 1263.0     | 1517.0     | —          |
| 613203.0          | 75.7             | 12                | 2                          | 1580.0     | 1036.0     | —          |
| 835767.0          | 76.7             | 12                | 2                          | 1962.0     | 1399.0     | —          |
| 139249.0          | 69.0             | 12                | 2                          | 1342.0     | 1106.0     | —          |
| 361782.0          | 90.4             | 12                | 3                          | 1905.0     | 1167.0     | 1275.0     |

## Type 5 Radar Waveform\_6

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 379134.0          | 96.6             | 19                | 3                          | 1288.0     | 1837.0     | 1049.0     |
| 525027.0          | 76.9             | 19                | 2                          | 1181.0     | 1416.0     | —          |
| 72452.0           | 74.1             | 19                | 2                          | 1817.0     | 1279.0     | —          |
| 217302.0          | 69.2             | 19                | 2                          | 1113.0     | 1758.0     | —          |
| 363071.0          | 54.2             | 19                | 1                          | 1311.0     | —          | —          |
| 505809.0          | 97.0             | 19                | 3                          | 1310.0     | 1158.0     | 1743.0     |
| 54759.0           | 56.5             | 19                | 1                          | 1578.0     | —          | —          |
| 199073.0          | 93.5             | 19                | 3                          | 1066.0     | 1836.0     | 1136.0     |
| 343985.0          | 70.7             | 19                | 2                          | 1790.0     | 1602.0     | —          |
| 488143.0          | 96.9             | 19                | 3                          | 1389.0     | 1297.0     | 1364.0     |
| 36827.0           | 71.6             | 19                | 2                          | 1054.0     | 1400.0     | —          |
| 182183.0          | 54.6             | 19                | 1                          | 1035.0     | —          | —          |
| 326550.0          | 74.6             | 19                | 2                          | 1024.0     | 1659.0     | —          |
| 472138.0          | 51.9             | 19                | 1                          | 1770.0     | —          | —          |
| 19011.0           | 55.9             | 19                | 1                          | 1365.0     | —          | —          |
| 164242.0          | 54.2             | 19                | 1                          | 1205.0     | —          | —          |
| 307835.0          | 87.1             | 19                | 3                          | 1644.0     | 1481.0     | 1241.0     |
| 453727.0          | 77.1             | 19                | 2                          | 1101.0     | 1379.0     | —          |
| 1126.0            | 59.2             | 19                | 1                          | 1759.0     | —          | —          |
| 145594.0          | 89.6             | 19                | 3                          | 1771.0     | 1204.0     | 1341.0     |

## Type 5 Radar Waveform\_7

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 415806.0          | 67.4             | 12                | 2                          | 1285.0     | 1950.0     | —          |
| 621971.0          | 95.5             | 12                | 3                          | 1804.0     | 1121.0     | 1591.0     |
| 830225.0          | 68.3             | 12                | 2                          | 1568.0     | 1441.0     | —          |
| 183008.0          | 84.0             | 12                | 3                          | 1152.0     | 1047.0     | 1915.0     |
| 390381.0          | 80.5             | 12                | 2                          | 1137.0     | 1913.0     | —          |
| 598529.0          | 51.5             | 12                | 1                          | 1615.0     | —          | —          |
| 804061.0          | 83.6             | 12                | 3                          | 1028.0     | 1624.0     | 1044.0     |
| 157985.0          | 53.0             | 12                | 1                          | 1622.0     | —          | —          |
| 365594.0          | 53.5             | 12                | 1                          | 1345.0     | —          | —          |
| 573120.0          | 65.1             | 12                | 1                          | 1393.0     | —          | —          |
| 778653.0          | 77.3             | 12                | 2                          | 1921.0     | 1679.0     | —          |
| 132205.0          | 67.7             | 12                | 2                          | 1355.0     | 1698.0     | —          |
| 339249.0          | 73.0             | 12                | 2                          | 1337.0     | 1967.0     | —          |
| 547209.0          | 52.9             | 12                | 1                          | 1934.0     | —          | —          |

## Type 5 Radar Waveform\_8

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 812638.0          | 68.6             | 11                | 2                          | 1025.0     | 1096.0     | —          |
| 114937.0          | 69.1             | 11                | 2                          | 1873.0     | 1093.0     | —          |
| 338338.0          | 78.6             | 11                | 2                          | 1276.0     | 1022.0     | —          |
| 560633.0          | 97.0             | 11                | 3                          | 1452.0     | 1068.0     | 1455.0     |
| 784393.0          | 72.2             | 11                | 2                          | 1926.0     | 1053.0     | —          |
| 87428.0           | 77.2             | 11                | 2                          | 1850.0     | 1339.0     | —          |
| 310161.0          | 94.4             | 11                | 3                          | 1414.0     | 1741.0     | 1127.0     |
| 533359.0          | 95.7             | 11                | 3                          | 1008.0     | 1225.0     | 1426.0     |
| 755726.0          | 95.5             | 11                | 3                          | 1813.0     | 1235.0     | 1366.0     |
| 59852.0           | 99.7             | 11                | 3                          | 1524.0     | 1449.0     | 1678.0     |
| 283566.0          | 56.2             | 11                | 1                          | 1507.0     | —          | —          |
| 506193.0          | 81.6             | 11                | 2                          | 1603.0     | 1509.0     | —          |
| 728100.0          | 87.2             | 11                | 3                          | 1395.0     | 1953.0     | 1295.0     |

## Type 5 Radar Waveform\_9

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 26403.0           | 58.9             | 15                | 1                          | 1890.0     | —          | —          |
| 207926.0          | 64.7             | 15                | 1                          | 1593.0     | —          | —          |
| 389543.0          | 52.4             | 15                | 1                          | 1391.0     | —          | —          |
| 569045.0          | 89.7             | 15                | 3                          | 1141.0     | 1807.0     | 1143.0     |
| 4041.0            | 98.6             | 15                | 3                          | 1722.0     | 1306.0     | 1245.0     |
| 185330.0          | 67.5             | 15                | 2                          | 1269.0     | 1284.0     | —          |
| 366851.0          | 79.5             | 15                | 2                          | 1058.0     | 1002.0     | —          |
| 547002.0          | 73.0             | 15                | 2                          | 1802.0     | 1961.0     | —          |
| 730247.0          | 51.0             | 15                | 1                          | 1447.0     | —          | —          |
| 163222.0          | 58.6             | 15                | 1                          | 1535.0     | —          | —          |
| 343324.0          | 90.2             | 15                | 3                          | 1041.0     | 1658.0     | 1930.0     |
| 523932.0          | 88.8             | 15                | 3                          | 1786.0     | 1227.0     | 1854.0     |
| 707913.0          | 52.7             | 15                | 1                          | 1417.0     | —          | —          |
| 140825.0          | 63.4             | 15                | 1                          | 1736.0     | —          | —          |
| 322351.0          | 53.4             | 15                | 1                          | 1623.0     | —          | —          |
| 502161.0          | 89.9             | 15                | 3                          | 1442.0     | 1148.0     | 1551.0     |

## Type 5 Radar Waveform\_10

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 1219579.0         | 55.6             | 6                 | 1                          | 1619.0     | –          | –          |
| 210681.0          | 69.5             | 6                 | 2                          | 1084.0     | 1585.0     | –          |
| 533940.0          | 53.8             | 6                 | 1                          | 1344.0     | –          | –          |
| 855690.0          | 81.7             | 6                 | 2                          | 1931.0     | 1433.0     | –          |
| 1178666.0         | 71.6             | 6                 | 2                          | 1647.0     | 1247.0     | –          |
| 170681.0          | 83.4             | 6                 | 3                          | 1124.0     | 1704.0     | 1764.0     |
| 492809.0          | 86.9             | 6                 | 3                          | 1188.0     | 1903.0     | 1860.0     |
| 816007.0          | 75.6             | 6                 | 2                          | 1993.0     | 1291.0     | –          |
| 1137370.0         | 90.1             | 6                 | 3                          | 1305.0     | 1648.0     | 1751.0     |

## Type 5 Radar Waveform\_11

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 147719.0          | 54.9             | 5                 | 1                          | 1511.0     | –          | –          |
| 510391.0          | 82.1             | 5                 | 2                          | 1916.0     | 1820.0     | –          |
| 872437.0          | 95.3             | 5                 | 3                          | 1584.0     | 1971.0     | 1629.0     |
| 1237358.0         | 71.7             | 5                 | 2                          | 1191.0     | 1112.0     | –          |
| 102722.0          | 100.0            | 5                 | 3                          | 1616.0     | 1651.0     | 1606.0     |
| 465748.0          | 68.7             | 5                 | 2                          | 1569.0     | 1983.0     | –          |
| 828983.0          | 77.8             | 5                 | 2                          | 1267.0     | 1744.0     | –          |
| 1191260.0         | 99.0             | 5                 | 3                          | 1196.0     | 1595.0     | 1213.0     |

## Type 5 Radar Waveform\_12

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 25848.0           | 64.4             | 17                | 1                          | 1012.0     | –          | –          |
| 186515.0          | 74.7             | 17                | 2                          | 1919.0     | 1847.0     | –          |
| 346991.0          | 88.4             | 17                | 3                          | 1498.0     | 1292.0     | 1546.0     |
| 510168.0          | 51.0             | 17                | 1                          | 1021.0     | –          | –          |
| 5942.0            | 75.5             | 17                | 2                          | 1986.0     | 1195.0     | –          |
| 166952.0          | 78.8             | 17                | 2                          | 1618.0     | 1190.0     | –          |
| 328569.0          | 50.2             | 17                | 1                          | 1573.0     | –          | –          |
| 487300.0          | 93.6             | 17                | 3                          | 1990.0     | 1827.0     | 1252.0     |
| 649940.0          | 79.9             | 17                | 2                          | 1254.0     | 1587.0     | –          |
| 147080.0          | 67.5             | 17                | 2                          | 1424.0     | 1563.0     | –          |
| 308672.0          | 60.4             | 17                | 1                          | 1634.0     | –          | –          |
| 468446.0          | 88.5             | 17                | 3                          | 1020.0     | 1282.0     | 1478.0     |
| 631039.0          | 58.2             | 17                | 1                          | 1861.0     | –          | –          |
| 127194.0          | 69.5             | 17                | 2                          | 1626.0     | 1668.0     | –          |
| 288688.0          | 63.7             | 17                | 1                          | 1901.0     | –          | –          |
| 448628.0          | 90.9             | 17                | 3                          | 1070.0     | 1630.0     | 1102.0     |
| 611259.0          | 55.7             | 17                | 1                          | 1773.0     | –          | –          |
| 107265.0          | 89.9             | 17                | 3                          | 1259.0     | 1596.0     | 1126.0     |

## Type 5 Radar Waveform\_13

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 345595.0          | 80.1             | 12                | 2                          | 1006.0     | 1541.0     | —          |
| 553448.0          | 52.4             | 12                | 1                          | 1641.0     | —          | —          |
| 757839.0          | 99.9             | 12                | 3                          | 1760.0     | 1423.0     | 1937.0     |
| 112876.0          | 65.5             | 12                | 1                          | 1955.0     | —          | —          |
| 320134.0          | 75.5             | 12                | 2                          | 1179.0     | 1182.0     | —          |
| 526869.0          | 77.9             | 12                | 2                          | 1589.0     | 1707.0     | —          |
| 734134.0          | 76.9             | 12                | 2                          | 1927.0     | 1159.0     | —          |
| 86981.0           | 99.6             | 12                | 3                          | 1757.0     | 1858.0     | 1738.0     |
| 293747.0          | 93.7             | 12                | 3                          | 1628.0     | 1308.0     | 1896.0     |
| 500530.0          | 85.4             | 12                | 3                          | 1516.0     | 1985.0     | 1210.0     |
| 706853.0          | 84.2             | 12                | 3                          | 1868.0     | 1614.0     | 1733.0     |
| 61781.0           | 51.3             | 12                | 1                          | 1948.0     | —          | —          |
| 269434.0          | 51.1             | 12                | 1                          | 1180.0     | —          | —          |
| 474974.0          | 90.0             | 12                | 3                          | 1922.0     | 1766.0     | 1184.0     |

## Type 5 Radar Waveform\_14

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 563089.0          | 62.4             | 17                | 1                          | 1877.0     | —          | —          |
| 29707.0           | 89.9             | 17                | 3                          | 1142.0     | 1869.0     | 1701.0     |
| 199874.0          | 88.4             | 17                | 3                          | 1886.0     | 1280.0     | 1155.0     |
| 369904.0          | 88.8             | 17                | 3                          | 1849.0     | 1139.0     | 1562.0     |
| 542325.0          | 65.1             | 17                | 1                          | 1529.0     | —          | —          |
| 8767.0            | 88.8             | 17                | 3                          | 1360.0     | 1156.0     | 1586.0     |
| 179094.0          | 80.2             | 17                | 2                          | 1632.0     | 1987.0     | —          |
| 349009.0          | 90.8             | 17                | 3                          | 1222.0     | 1981.0     | 1232.0     |
| 521491.0          | 53.5             | 17                | 1                          | 1248.0     | —          | —          |
| 688892.0          | 88.1             | 17                | 3                          | 1386.0     | 1818.0     | 1601.0     |
| 157911.0          | 91.8             | 17                | 3                          | 1753.0     | 1166.0     | 1604.0     |
| 329289.0          | 65.9             | 17                | 1                          | 1794.0     | —          | —          |
| 498995.0          | 76.4             | 17                | 2                          | 1352.0     | 1932.0     | —          |
| 667138.0          | 87.1             | 17                | 3                          | 1966.0     | 1875.0     | 1814.0     |
| 137258.0          | 81.9             | 17                | 2                          | 1653.0     | 1335.0     | —          |
| 307274.0          | 85.5             | 17                | 3                          | 1605.0     | 1072.0     | 1359.0     |
| 478552.0          | 68.3             | 17                | 2                          | 1157.0     | 1323.0     | —          |

## Type 5 Radar Waveform\_15

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 613685.0          | 54.3             | 17                | 1                          | 1693.0     | —          | —          |
| 110025.0          | 65.9             | 17                | 1                          | 1469.0     | —          | —          |
| 271527.0          | 60.0             | 17                | 1                          | 1051.0     | —          | —          |
| 430231.0          | 88.6             | 17                | 3                          | 1793.0     | 1700.0     | 1752.0     |
| 592020.0          | 75.3             | 17                | 2                          | 1778.0     | 1929.0     | —          |
| 89847.0           | 99.1             | 17                | 3                          | 1019.0     | 1702.0     | 1000.0     |
| 250378.0          | 98.9             | 17                | 3                          | 1581.0     | 1564.0     | 1249.0     |
| 411159.0          | 99.2             | 17                | 3                          | 1792.0     | 1083.0     | 1262.0     |
| 574090.0          | 60.4             | 17                | 1                          | 1534.0     | —          | —          |
| 70091.0           | 74.2             | 17                | 2                          | 1958.0     | 1301.0     | —          |
| 230819.0          | 75.9             | 17                | 2                          | 1900.0     | 1844.0     | —          |
| 391019.0          | 85.1             | 17                | 3                          | 1684.0     | 1979.0     | 1062.0     |
| 554325.0          | 64.9             | 17                | 1                          | 1408.0     | —          | —          |
| 50404.0           | 59.3             | 17                | 1                          | 1513.0     | —          | —          |
| 211304.0          | 78.6             | 17                | 2                          | 1732.0     | 1105.0     | —          |
| 373023.0          | 66.3             | 17                | 1                          | 1554.0     | —          | —          |
| 533155.0          | 70.5             | 17                | 2                          | 1045.0     | 1976.0     | —          |
| 30452.0           | 76.1             | 17                | 2                          | 1300.0     | 1975.0     | —          |

## Type 5 Radar Waveform\_16

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 431584.0          | 68.4             | 5                 | 2                          | 1797.0     | 1910.0     | —          |
| 794696.0          | 81.1             | 5                 | 2                          | 1384.0     | 1920.0     | —          |
| 1158104.0         | 74.9             | 5                 | 2                          | 1477.0     | 1294.0     | —          |
| 23997.0           | 75.7             | 5                 | 2                          | 1055.0     | 1865.0     | —          |
| 387107.0          | 66.9             | 5                 | 2                          | 1523.0     | 1318.0     | —          |
| 750903.0          | 59.7             | 5                 | 1                          | 1468.0     | —          | —          |
| 1112271.0         | 89.3             | 5                 | 3                          | 1867.0     | 1076.0     | 1313.0     |
| 1474815.0         | 99.0             | 5                 | 3                          | 1980.0     | 1217.0     | 1283.0     |

## Type 5 Radar Waveform\_17

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 144196.0          | 61.8             | 19                | 1                          | 1038.0     | —          | —          |
| 296156.0          | 73.7             | 19                | 2                          | 1594.0     | 1496.0     | —          |
| 449989.0          | 59.6             | 19                | 1                          | 1122.0     | —          | —          |
| 602945.0          | 51.4             | 19                | 1                          | 1069.0     | —          | —          |
| 124576.0          | 89.8             | 19                | 3                          | 1746.0     | 1289.0     | 1944.0     |
| 277232.0          | 67.7             | 19                | 2                          | 1735.0     | 1691.0     | —          |
| 431061.0          | 58.2             | 19                | 1                          | 1258.0     | —          | —          |
| 582043.0          | 67.1             | 19                | 2                          | 1428.0     | 1871.0     | —          |
| 106124.0          | 79.9             | 19                | 2                          | 1437.0     | 1957.0     | —          |
| 258136.0          | 85.4             | 19                | 3                          | 1087.0     | 1150.0     | 1992.0     |
| 410305.0          | 91.1             | 19                | 3                          | 1266.0     | 1643.0     | 1293.0     |
| 564919.0          | 51.3             | 19                | 1                          | 1463.0     | —          | —          |
| 87210.0           | 87.1             | 19                | 3                          | 1369.0     | 1654.0     | 1431.0     |
| 239003.0          | 90.8             | 19                | 3                          | 1965.0     | 1857.0     | 1432.0     |
| 391254.0          | 89.5             | 19                | 3                          | 1597.0     | 1404.0     | 1695.0     |
| 544125.0          | 89.7             | 19                | 3                          | 1206.0     | 1108.0     | 1422.0     |
| 68820.0           | 54.6             | 19                | 1                          | 1299.0     | —          | —          |
| 221522.0          | 64.6             | 19                | 1                          | 1756.0     | —          | —          |
| 374480.0          | 54.2             | 19                | 1                          | 1409.0     | —          | —          |

## Type 5 Radar Waveform\_18

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 835132.0          | 55.7             | 9                 | 1                          | 1974.0     | –          | –          |
| 78943.0           | 88.7             | 9                 | 3                          | 1474.0     | 1711.0     | 1512.0     |
| 321035.0          | 78.8             | 9                 | 2                          | 1398.0     | 1123.0     | –          |
| 563346.0          | 63.2             | 9                 | 1                          | 1829.0     | –          | –          |
| 803271.0          | 99.6             | 9                 | 3                          | 1348.0     | 1353.0     | 1808.0     |
| 49358.0           | 55.9             | 9                 | 1                          | 1667.0     | –          | –          |
| 291676.0          | 61.0             | 9                 | 1                          | 1014.0     | –          | –          |
| 533830.0          | 63.5             | 9                 | 1                          | 1261.0     | –          | –          |
| 776212.0          | 54.3             | 9                 | 1                          | 1060.0     | –          | –          |
| 19481.0           | 93.4             | 9                 | 3                          | 1378.0     | 1010.0     | 1996.0     |
| 261311.0          | 78.6             | 9                 | 2                          | 1281.0     | 1720.0     | –          |
| 502272.0          | 99.0             | 9                 | 3                          | 1085.0     | 1825.0     | 1762.0     |

## Type 5 Radar Waveform\_19

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 559310.0          | 50.3             | 14                | 1                          | 1419.0     | –          | –          |
| 737776.0          | 99.4             | 14                | 3                          | 1991.0     | 1216.0     | 1333.0     |
| 173396.0          | 76.4             | 14                | 2                          | 1882.0     | 1443.0     | –          |
| 353568.0          | 87.2             | 14                | 3                          | 1801.0     | 1742.0     | 1719.0     |
| 535643.0          | 75.2             | 14                | 2                          | 1791.0     | 1446.0     | –          |
| 714923.0          | 89.5             | 14                | 3                          | 1723.0     | 1749.0     | 1675.0     |
| 151421.0          | 59.0             | 14                | 1                          | 1683.0     | –          | –          |
| 331632.0          | 84.5             | 14                | 3                          | 1545.0     | 1822.0     | 1193.0     |
| 514614.0          | 58.2             | 14                | 1                          | 1375.0     | –          | –          |
| 694864.0          | 76.9             | 14                | 2                          | 1075.0     | 1714.0     | –          |
| 128446.0          | 97.8             | 14                | 3                          | 1382.0     | 1945.0     | 1951.0     |
| 310105.0          | 79.5             | 14                | 2                          | 1754.0     | 1017.0     | –          |
| 489709.0          | 93.2             | 14                | 3                          | 1788.0     | 1717.0     | 1734.0     |
| 672690.0          | 75.2             | 14                | 2                          | 1356.0     | 1268.0     | –          |
| 106560.0          | 69.1             | 14                | 2                          | 1527.0     | 1214.0     | –          |
| 287498.0          | 89.1             | 14                | 3                          | 1095.0     | 1309.0     | 1103.0     |

## Type 5 Radar Waveform\_20

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 394208.0          | 77.6             | 18                | 2                          | 1851.0     | 1672.0     | —          |
| 545357.0          | 91.7             | 18                | 3                          | 1893.0     | 1412.0     | 1567.0     |
| 70655.0           | 85.3             | 18                | 3                          | 1805.0     | 1202.0     | 1789.0     |
| 223411.0          | 71.1             | 18                | 2                          | 1671.0     | 1037.0     | —          |
| 376359.0          | 52.3             | 18                | 1                          | 1995.0     | —          | —          |
| 529594.0          | 55.4             | 18                | 1                          | 1350.0     | —          | —          |
| 52016.0           | 83.6             | 18                | 3                          | 1056.0     | 1162.0     | 1540.0     |
| 205178.0          | 60.3             | 18                | 1                          | 1007.0     | —          | —          |
| 356719.0          | 83.1             | 18                | 2                          | 1465.0     | 1994.0     | —          |
| 510423.0          | 60.5             | 18                | 1                          | 1774.0     | —          | —          |
| 33376.0           | 60.1             | 18                | 1                          | 1576.0     | —          | —          |
| 185037.0          | 95.5             | 18                | 3                          | 1907.0     | 1642.0     | 1866.0     |
| 338303.0          | 78.8             | 18                | 2                          | 1030.0     | 1781.0     | —          |
| 492023.0          | 54.2             | 18                | 1                          | 1242.0     | —          | —          |
| 14558.0           | 53.8             | 18                | 1                          | 1470.0     | —          | —          |
| 167031.0          | 73.7             | 18                | 2                          | 1724.0     | 1057.0     | —          |
| 319957.0          | 51.2             | 18                | 1                          | 1949.0     | —          | —          |
| 470613.0          | 86.5             | 18                | 3                          | 1336.0     | 1765.0     | 1577.0     |
| 623151.0          | 90.8             | 18                | 3                          | 1132.0     | 1663.0     | 1385.0     |

## Type 5 Radar Waveform\_21

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 188218.0          | 52.0             | 14                | 1                          | 1657.0     | —          | —          |
| 381809.0          | 60.7             | 14                | 1                          | 1725.0     | —          | —          |
| 575386.0          | 53.5             | 14                | 1                          | 1767.0     | —          | —          |
| 769247.0          | 64.3             | 14                | 1                          | 1491.0     | —          | —          |
| 164394.0          | 50.1             | 14                | 1                          | 1530.0     | —          | —          |
| 356597.0          | 95.7             | 14                | 3                          | 1838.0     | 1699.0     | 1229.0     |
| 550507.0          | 80.1             | 14                | 2                          | 1347.0     | 1912.0     | —          |
| 742962.0          | 96.1             | 14                | 3                          | 1855.0     | 1023.0     | 1218.0     |
| 140386.0          | 78.8             | 14                | 2                          | 1402.0     | 1004.0     | —          |
| 332610.0          | 90.9             | 14                | 3                          | 1940.0     | 1494.0     | 1881.0     |
| 525932.0          | 99.3             | 14                | 3                          | 1525.0     | 1739.0     | 1165.0     |
| 720437.0          | 70.1             | 14                | 2                          | 1565.0     | 1145.0     | —          |
| 116479.0          | 74.3             | 14                | 2                          | 1737.0     | 1215.0     | —          |
| 309340.0          | 86.9             | 14                | 3                          | 1338.0     | 1270.0     | 1497.0     |
| 502769.0          | 72.0             | 14                | 2                          | 1548.0     | 1925.0     | —          |

## Type 5 Radar Waveform\_22

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 520185.0          | 86.0             | 19                | 3                          | 1439.0     | 1839.0     | 1362.0     |
| 69582.0           | 62.7             | 19                | 1                          | 1514.0     | —          | —          |
| 214842.0          | 58.0             | 19                | 1                          | 1211.0     | —          | —          |
| 359980.0          | 57.5             | 19                | 1                          | 1357.0     | —          | —          |
| 502037.0          | 96.7             | 19                | 3                          | 1572.0     | 1776.0     | 1721.0     |
| 51439.0           | 94.9             | 19                | 3                          | 1779.0     | 1236.0     | 1550.0     |
| 196867.0          | 65.8             | 19                | 1                          | 1476.0     | —          | —          |
| 342236.0          | 66.1             | 19                | 1                          | 1111.0     | —          | —          |
| 487510.0          | 54.1             | 19                | 1                          | 1081.0     | —          | —          |
| 33841.0           | 64.6             | 19                | 1                          | 1194.0     | —          | —          |
| 178584.0          | 79.4             | 19                | 2                          | 1221.0     | 1600.0     | —          |
| 324209.0          | 63.5             | 19                | 1                          | 1361.0     | —          | —          |
| 469248.0          | 55.7             | 19                | 1                          | 1553.0     | —          | —          |
| 15934.0           | 54.0             | 19                | 1                          | 1885.0     | —          | —          |
| 160605.0          | 73.1             | 19                | 2                          | 1726.0     | 1610.0     | —          |
| 305223.0          | 74.1             | 19                | 2                          | 1800.0     | 1715.0     | —          |
| 449998.0          | 78.3             | 19                | 2                          | 1480.0     | 1891.0     | —          |
| 596602.0          | 56.7             | 19                | 1                          | 1462.0     | —          | —          |
| 142481.0          | 84.5             | 19                | 3                          | 1192.0     | 1824.0     | 1570.0     |
| 287712.0          | 67.1             | 19                | 2                          | 1798.0     | 1077.0     | —          |

## Type 5 Radar Waveform\_23

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 455194.0          | 78.4             | 19                | 2                          | 1234.0     | 1936.0     | —          |
| 607806.0          | 74.0             | 19                | 2                          | 1315.0     | 1645.0     | —          |
| 131786.0          | 77.4             | 19                | 2                          | 1169.0     | 1130.0     | —          |
| 283477.0          | 85.2             | 19                | 3                          | 1250.0     | 1376.0     | 1729.0     |
| 436861.0          | 75.4             | 19                | 2                          | 1163.0     | 1373.0     | —          |
| 589744.0          | 72.2             | 19                | 2                          | 1031.0     | 1164.0     | —          |
| 113070.0          | 59.4             | 19                | 1                          | 1832.0     | —          | —          |
| 266009.0          | 54.8             | 19                | 1                          | 1346.0     | —          | —          |
| 417816.0          | 69.4             | 19                | 2                          | 1566.0     | 1351.0     | —          |
| 568369.0          | 83.8             | 19                | 3                          | 1911.0     | 1120.0     | 2000.0     |
| 93799.0           | 90.4             | 19                | 3                          | 1775.0     | 1434.0     | 1681.0     |
| 245986.0          | 85.8             | 19                | 3                          | 1029.0     | 1956.0     | 1407.0     |
| 400244.0          | 58.6             | 19                | 1                          | 1013.0     | —          | —          |
| 552594.0          | 56.8             | 19                | 1                          | 1676.0     | —          | —          |
| 75289.0           | 68.3             | 19                | 2                          | 1894.0     | 1231.0     | —          |
| 227480.0          | 91.2             | 19                | 3                          | 1094.0     | 1383.0     | 1278.0     |
| 381398.0          | 65.6             | 19                | 1                          | 1027.0     | —          | —          |
| 530557.0          | 93.7             | 19                | 3                          | 1625.0     | 1970.0     | 1880.0     |
| 56414.0           | 89.9             | 19                | 3                          | 1238.0     | 1170.0     | 1834.0     |

## Type 5 Radar Waveform\_24

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 247562.0          | 96.0             | 15                | 3                          | 1870.0     | 1874.0     | 1612.0     |
| 428704.0          | 86.2             | 15                | 3                          | 1883.0     | 1392.0     | 1138.0     |
| 609047.0          | 94.6             | 15                | 3                          | 1787.0     | 1946.0     | 1273.0     |
| 44767.0           | 99.5             | 15                | 3                          | 1239.0     | 1397.0     | 1887.0     |
| 225575.0          | 99.7             | 15                | 3                          | 1506.0     | 1515.0     | 1482.0     |
| 407302.0          | 70.7             | 15                | 2                          | 1488.0     | 1325.0     | —          |
| 588493.0          | 82.1             | 15                | 2                          | 1571.0     | 1274.0     | —          |
| 22539.0           | 74.4             | 15                | 2                          | 1473.0     | 1633.0     | —          |
| 203353.0          | 92.1             | 15                | 3                          | 1799.0     | 1147.0     | 1374.0     |
| 385708.0          | 55.7             | 15                | 1                          | 1401.0     | —          | —          |
| 565977.0          | 66.7             | 15                | 2                          | 1331.0     | 1772.0     | —          |
| 226.0             | 71.0             | 15                | 2                          | 1696.0     | 1582.0     | —          |
| 181837.0          | 63.4             | 15                | 1                          | 1187.0     | —          | —          |
| 362341.0          | 89.9             | 15                | 3                          | 1209.0     | 1082.0     | 1177.0     |
| 543846.0          | 69.8             | 15                | 2                          | 1685.0     | 1168.0     | —          |
| 722262.0          | 93.6             | 15                | 3                          | 1939.0     | 1947.0     | 1843.0     |

## Type 5 Radar Waveform\_25

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 170055.0          | 61.9             | 14                | 1                          | 1467.0     | —          | —          |
| 362110.0          | 85.4             | 14                | 3                          | 1998.0     | 1171.0     | 1845.0     |
| 556450.0          | 72.9             | 14                | 2                          | 1091.0     | 1728.0     | —          |
| 750075.0          | 82.1             | 14                | 2                          | 1454.0     | 1064.0     | —          |
| 146041.0          | 74.4             | 14                | 2                          | 1046.0     | 1287.0     | —          |
| 338988.0          | 85.4             | 14                | 3                          | 1420.0     | 1001.0     | 1117.0     |
| 533250.0          | 61.0             | 14                | 1                          | 1899.0     | —          | —          |
| 724577.0          | 96.7             | 14                | 3                          | 1099.0     | 1665.0     | 1592.0     |
| 122202.0          | 70.3             | 14                | 2                          | 1286.0     | 1110.0     | —          |
| 315174.0          | 74.3             | 14                | 2                          | 1673.0     | 1914.0     | —          |
| 507816.0          | 93.6             | 14                | 3                          | 1674.0     | 1246.0     | 1471.0     |
| 703327.0          | 54.9             | 14                | 1                          | 1495.0     | —          | —          |
| 98170.0           | 99.0             | 14                | 3                          | 1421.0     | 1290.0     | 1340.0     |
| 291068.0          | 85.7             | 14                | 3                          | 1332.0     | 1669.0     | 1444.0     |
| 484790.0          | 81.9             | 14                | 2                          | 1853.0     | 1320.0     | —          |

## Type 5 Radar Waveform\_26

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 679427.0          | 58.5             | 13                | 1                          | 1549.0     | -          | -          |
| 74375.0           | 84.6             | 13                | 3                          | 1501.0     | 1574.0     | 1146.0     |
| 267707.0          | 66.9             | 13                | 2                          | 1520.0     | 1718.0     | -          |
| 459833.0          | 88.5             | 13                | 3                          | 1848.0     | 1456.0     | 1859.0     |
| 653921.0          | 80.9             | 13                | 2                          | 1621.0     | 1942.0     | -          |
| 50577.0           | 83.8             | 13                | 3                          | 1418.0     | 1438.0     | 1761.0     |
| 244106.0          | 74.5             | 13                | 2                          | 1504.0     | 1078.0     | -          |
| 437533.0          | 77.7             | 13                | 2                          | 1026.0     | 1503.0     | -          |
| 631790.0          | 64.5             | 13                | 1                          | 1461.0     | -          | -          |
| 26815.0           | 93.4             | 13                | 3                          | 1435.0     | 1317.0     | 1872.0     |
| 219622.0          | 97.9             | 13                | 3                          | 1411.0     | 1935.0     | 1627.0     |
| 413166.0          | 67.4             | 13                | 2                          | 1747.0     | 1830.0     | -          |
| 605510.0          | 99.1             | 13                | 3                          | 1611.0     | 1815.0     | 1219.0     |
| 3066.0            | 52.7             | 13                | 1                          | 1493.0     | -          | -          |
| 196633.0          | 62.8             | 13                | 1                          | 1884.0     | -          | -          |

## Type 5 Radar Waveform\_27

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 449395.0          | 77.0             | 12                | 2                          | 1977.0     | 1908.0     | -          |
| 672746.0          | 96.0             | 12                | 3                          | 1135.0     | 1063.0     | 1116.0     |
| 895811.0          | 88.8             | 12                | 3                          | 1088.0     | 1173.0     | 1059.0     |
| 199508.0          | 63.2             | 12                | 1                          | 1547.0     | -          | -          |
| 422827.0          | 56.3             | 12                | 1                          | 1941.0     | -          | -          |
| 646751.0          | 55.8             | 12                | 1                          | 1201.0     | -          | -          |
| 867426.0          | 92.8             | 12                | 3                          | 1500.0     | 1264.0     | 1518.0     |
| 171938.0          | 61.6             | 12                | 1                          | 1763.0     | -          | -          |
| 395383.0          | 65.4             | 12                | 1                          | 1769.0     | -          | -          |
| 619218.0          | 60.5             | 12                | 1                          | 1189.0     | -          | -          |
| 840530.0          | 75.2             | 12                | 2                          | 1783.0     | 1895.0     | -          |
| 144016.0          | 98.0             | 12                | 3                          | 1230.0     | 1256.0     | 1819.0     |
| 367354.0          | 79.1             | 12                | 2                          | 1731.0     | 1304.0     | -          |

## Type 5 Radar Waveform\_28

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 698310.0          | 75.4             | 9                 | 2                          | 1003.0     | 1876.0     | -          |
| 962532.0          | 77.1             | 9                 | 2                          | 1065.0     | 1429.0     | -          |
| 138018.0          | 77.1             | 9                 | 2                          | 1098.0     | 1973.0     | -          |
| 401755.0          | 75.5             | 9                 | 2                          | 1490.0     | 1846.0     | -          |
| 666885.0          | 56.3             | 9                 | 1                          | 1115.0     | -          | -          |
| 930191.0          | 73.8             | 9                 | 2                          | 1034.0     | 1255.0     | -          |
| 105697.0          | 58.2             | 9                 | 1                          | 1244.0     | -          | -          |
| 368672.0          | 86.4             | 9                 | 3                          | 1343.0     | 1997.0     | 1740.0     |
| 632317.0          | 96.6             | 9                 | 3                          | 1243.0     | 1969.0     | 1358.0     |
| 898145.0          | 51.3             | 9                 | 1                          | 1713.0     | -          | -          |
| 72955.0           | 89.0             | 9                 | 3                          | 1388.0     | 1237.0     | 1427.0     |

## Type 5 Radar Waveform\_29

| Burst Offset (us) | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
|-------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| 247185.0          | 59.8             | 14                | 1                          | 1745.0     | —          | —          |
| 439466.0          | 87.5             | 14                | 3                          | 1558.0     | 1328.0     | 1251.0     |
| 634387.0          | 57.6             | 14                | 1                          | 1748.0     | —          | —          |
| 29738.0           | 58.3             | 14                | 1                          | 1688.0     | —          | —          |
| 222482.0          | 88.8             | 14                | 3                          | 1377.0     | 1716.0     | 1708.0     |
| 416243.0          | 76.5             | 14                | 2                          | 1960.0     | 1118.0     | —          |
| 609601.0          | 68.0             | 14                | 2                          | 1042.0     | 1933.0     | —          |
| 5890.0            | 61.9             | 14                | 1                          | 1499.0     | —          | —          |
| 198809.0          | 94.0             | 14                | 3                          | 1005.0     | 1978.0     | 1487.0     |
| 393371.0          | 57.5             | 14                | 1                          | 1178.0     | —          | —          |
| 585132.0          | 97.3             | 14                | 3                          | 1316.0     | 1440.0     | 1114.0     |
| 777827.0          | 97.6             | 14                | 3                          | 1466.0     | 1483.0     | 1322.0     |
| 175749.0          | 66.1             | 14                | 1                          | 1265.0     | —          | —          |
| 367717.0          | 85.8             | 14                | 3                          | 1650.0     | 1502.0     | 1897.0     |
| 562086.0          | 79.4             | 14                | 2                          | 1780.0     | 1043.0     | —          |

| Radar Type 6 - Radar Statistical Performance |                               |         |                               |
|----------------------------------------------|-------------------------------|---------|-------------------------------|
| Trail #                                      | 1=Detection<br>0=No Detection | Trail # | 1=Detection<br>0=No Detection |
| 0                                            | 1                             | 15      | 1                             |
| 1                                            | 1                             | 16      | 1                             |
| 2                                            | 1                             | 17      | 1                             |
| 3                                            | 1                             | 18      | 1                             |
| 4                                            | 1                             | 19      | 1                             |
| 5                                            | 1                             | 20      | 1                             |
| 6                                            | 1                             | 21      | 1                             |
| 7                                            | 1                             | 22      | 1                             |
| 8                                            | 1                             | 23      | 1                             |
| 9                                            | 1                             | 24      | 1                             |
| 10                                           | 1                             | 25      | 1                             |
| 11                                           | 1                             | 26      | 1                             |
| 12                                           | 1                             | 27      | 1                             |
| 13                                           | 1                             | 28      | 1                             |
| 14                                           | 1                             | 29      | 1                             |
| Detection Percentage (%)                     |                               | 100%    |                               |

Type 6 Radar Waveform\_0

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5332 | 5656 | 5269 | 5514 | 5418 |
| 5                    | 5295 | 5693 | 5445 | 5648 | 5552 |
| 10                   | 5391 | 5441 | 5504 | 5654 | 5278 |
| 15                   | 5376 | 5547 | 5584 | 5487 | 5287 |
| 20                   | 5454 | 5650 | 5299 | 5674 | 5659 |
| 25                   | 5399 | 5435 | 5428 | 5671 | 5526 |
| 30                   | 5591 | 5449 | 5318 | 5329 | 5476 |
| 35                   | 5327 | 5383 | 5306 | 5702 | 5565 |
| 40                   | 5344 | 5706 | 5645 | 5536 | 5459 |
| 45                   | 5595 | 5458 | 5367 | 5571 | 5267 |
| 50                   | 5532 | 5473 | 5708 | 5603 | 5353 |
| 55                   | 5317 | 5486 | 5469 | 5544 | 5260 |
| 60                   | 5567 | 5606 | 5687 | 5672 | 5402 |
| 65                   | 5586 | 5296 | 5625 | 5298 | 5414 |
| 70                   | 5510 | 5447 | 5360 | 5291 | 5379 |
| 75                   | 5564 | 5465 | 5314 | 5666 | 5582 |
| 80                   | 5341 | 5466 | 5537 | 5701 | 5409 |
| 85                   | 5566 | 5639 | 5670 | 5408 | 5652 |
| 90                   | 5599 | 5350 | 5305 | 5589 | 5404 |
| 95                   | 5259 | 5509 | 5467 | 5620 | 5675 |

Type 6 Radar Waveform\_1

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5490 | 5420 | 5680 | 5578 | 5638 |
| 5                    | 5337 | 5618 | 5520 | 5336 | 5284 |
| 10                   | 5322 | 5327 | 5545 | 5374 | 5299 |
| 15                   | 5367 | 5405 | 5553 | 5629 | 5679 |
| 20                   | 5673 | 5523 | 5591 | 5291 | 5251 |
| 25                   | 5465 | 5511 | 5602 | 5539 | 5462 |
| 30                   | 5713 | 5512 | 5548 | 5567 | 5527 |
| 35                   | 5518 | 5418 | 5654 | 5459 | 5616 |
| 40                   | 5501 | 5524 | 5547 | 5410 | 5533 |
| 45                   | 5388 | 5575 | 5541 | 5425 | 5624 |
| 50                   | 5408 | 5649 | 5692 | 5651 | 5261 |
| 55                   | 5674 | 5423 | 5551 | 5363 | 5706 |
| 60                   | 5599 | 5296 | 5632 | 5504 | 5703 |
| 65                   | 5532 | 5497 | 5574 | 5334 | 5313 |
| 70                   | 5519 | 5346 | 5294 | 5540 | 5424 |
| 75                   | 5283 | 5311 | 5461 | 5563 | 5431 |
| 80                   | 5451 | 5721 | 5600 | 5698 | 5604 |
| 85                   | 5469 | 5633 | 5650 | 5279 | 5293 |
| 90                   | 5391 | 5576 | 5637 | 5255 | 5586 |
| 95                   | 5587 | 5693 | 5607 | 5380 | 5481 |

Type 6 Radar Waveform\_2

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5270 | 5659 | 5616 | 5264 | 5480 |
| 5                    | 5476 | 5640 | 5595 | 5499 | 5491 |
| 10                   | 5253 | 5591 | 5586 | 5569 | 5320 |
| 15                   | 5455 | 5532 | 5656 | 5674 | 5396 |
| 20                   | 5681 | 5689 | 5380 | 5699 | 5353 |
| 25                   | 5460 | 5330 | 5265 | 5496 | 5377 |
| 30                   | 5401 | 5505 | 5307 | 5719 | 5347 |
| 35                   | 5657 | 5509 | 5547 | 5612 | 5627 |
| 40                   | 5340 | 5607 | 5485 | 5650 | 5530 |
| 45                   | 5695 | 5555 | 5721 | 5483 | 5677 |
| 50                   | 5419 | 5662 | 5350 | 5335 | 5403 |
| 55                   | 5474 | 5583 | 5387 | 5266 | 5560 |
| 60                   | 5461 | 5577 | 5336 | 5529 | 5575 |
| 65                   | 5698 | 5620 | 5273 | 5456 | 5312 |
| 70                   | 5688 | 5429 | 5297 | 5552 | 5383 |
| 75                   | 5630 | 5431 | 5507 | 5544 | 5683 |
| 80                   | 5464 | 5502 | 5697 | 5663 | 5324 |
| 85                   | 5469 | 5420 | 5596 | 5317 | 5604 |
| 90                   | 5274 | 5323 | 5444 | 5416 | 5327 |
| 95                   | 5685 | 5654 | 5310 | 5484 | 5321 |

Type 6 Radar Waveform\_3

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5525 | 5423 | 5552 | 5425 | 5700 |
| 5                    | 5518 | 5565 | 5670 | 5320 | 5562 |
| 10                   | 5380 | 5627 | 5667 | 5341 | 5543 |
| 15                   | 5659 | 5284 | 5622 | 5588 | 5689 |
| 20                   | 5570 | 5372 | 5672 | 5716 | 5312 |
| 25                   | 5436 | 5369 | 5530 | 5419 | 5290 |
| 30                   | 5462 | 5522 | 5493 | 5545 | 5321 |
| 35                   | 5600 | 5343 | 5387 | 5541 | 5654 |
| 40                   | 5690 | 5318 | 5527 | 5624 | 5535 |
| 45                   | 5329 | 5444 | 5255 | 5306 | 5538 |
| 50                   | 5526 | 5386 | 5492 | 5675 | 5575 |
| 55                   | 5331 | 5456 | 5379 | 5648 | 5382 |
| 60                   | 5626 | 5643 | 5452 | 5521 | 5569 |
| 65                   | 5309 | 5288 | 5582 | 5394 | 5285 |
| 70                   | 5415 | 5397 | 5304 | 5395 | 5342 |
| 75                   | 5599 | 5454 | 5650 | 5363 | 5574 |
| 80                   | 5283 | 5251 | 5595 | 5616 | 5359 |
| 85                   | 5656 | 5412 | 5353 | 5558 | 5609 |
| 90                   | 5519 | 5264 | 5533 | 5697 | 5671 |
| 95                   | 5365 | 5681 | 5448 | 5327 | 5625 |

Type 6 Radar Waveform\_4

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5305 | 5284 | 5488 | 5586 | 5542 |
| 5                    | 5560 | 5587 | 5270 | 5253 | 5527 |
| 10                   | 5493 | 5644 | 5668 | 5387 | 5362 |
| 15                   | 5631 | 5311 | 5667 | 5600 | 5449 |
| 20                   | 5511 | 5461 | 5645 | 5507 | 5261 |
| 25                   | 5639 | 5473 | 5564 | 5276 | 5419 |
| 30                   | 5262 | 5365 | 5460 | 5313 | 5614 |
| 35                   | 5540 | 5455 | 5298 | 5361 | 5558 |
| 40                   | 5524 | 5553 | 5515 | 5412 | 5502 |
| 45                   | 5308 | 5571 | 5414 | 5702 | 5437 |
| 50                   | 5581 | 5498 | 5374 | 5288 | 5285 |
| 55                   | 5646 | 5673 | 5522 | 5316 | 5572 |
| 60                   | 5278 | 5467 | 5722 | 5518 | 5345 |
| 65                   | 5474 | 5672 | 5454 | 5401 | 5400 |
| 70                   | 5628 | 5371 | 5301 | 5568 | 5574 |
| 75                   | 5318 | 5506 | 5615 | 5539 | 5550 |
| 80                   | 5411 | 5592 | 5336 | 5275 | 5676 |
| 85                   | 5619 | 5604 | 5609 | 5295 | 5341 |
| 90                   | 5299 | 5525 | 5415 | 5331 | 5310 |
| 95                   | 5420 | 5287 | 5280 | 5330 | 5430 |

Type 6 Radar Waveform\_5

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5560 | 5523 | 5424 | 5272 | 5287 |
| 5                    | 5602 | 5512 | 5345 | 5416 | 5259 |
| 10                   | 5433 | 5709 | 5582 | 5383 | 5719 |
| 15                   | 5341 | 5490 | 5712 | 5594 | 5608 |
| 20                   | 5615 | 5452 | 5453 | 5618 | 5395 |
| 25                   | 5588 | 5367 | 5577 | 5598 | 5503 |
| 30                   | 5640 | 5376 | 5380 | 5419 | 5563 |
| 35                   | 5502 | 5404 | 5507 | 5693 | 5466 |
| 40                   | 5429 | 5478 | 5299 | 5323 | 5385 |
| 45                   | 5398 | 5495 | 5361 | 5458 | 5668 |
| 50                   | 5403 | 5488 | 5670 | 5321 | 5318 |
| 55                   | 5379 | 5714 | 5492 | 5493 | 5481 |
| 60                   | 5509 | 5676 | 5510 | 5545 | 5467 |
| 65                   | 5284 | 5330 | 5269 | 5475 | 5526 |
| 70                   | 5484 | 5500 | 5477 | 5347 | 5260 |
| 75                   | 5440 | 5694 | 5364 | 5584 | 5392 |
| 80                   | 5697 | 5320 | 5617 | 5474 | 5589 |
| 85                   | 5531 | 5275 | 5518 | 5679 | 5699 |
| 90                   | 5661 | 5543 | 5539 | 5464 | 5710 |
| 95                   | 5675 | 5327 | 5271 | 5653 | 5309 |

Type 6 Radar Waveform\_6

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5718 | 5287 | 5360 | 5433 | 5604 |
| 5                    | 5266 | 5534 | 5420 | 5579 | 5563 |
| 10                   | 5258 | 5319 | 5275 | 5302 | 5404 |
| 15                   | 5710 | 5468 | 5496 | 5282 | 5311 |
| 20                   | 5616 | 5684 | 5393 | 5542 | 5591 |
| 25                   | 5661 | 5440 | 5570 | 5303 | 5632 |
| 30                   | 5642 | 5529 | 5333 | 5595 | 5571 |
| 35                   | 5383 | 5641 | 5495 | 5380 | 5268 |
| 40                   | 5561 | 5712 | 5615 | 5314 | 5378 |
| 45                   | 5578 | 5521 | 5317 | 5723 | 5544 |
| 50                   | 5482 | 5539 | 5381 | 5619 | 5640 |
| 55                   | 5567 | 5668 | 5551 | 5689 | 5464 |
| 60                   | 5294 | 5646 | 5454 | 5711 | 5502 |
| 65                   | 5456 | 5271 | 5416 | 5320 | 5540 |
| 70                   | 5656 | 5598 | 5470 | 5503 | 5326 |
| 75                   | 5323 | 5694 | 5409 | 5339 | 5507 |
| 80                   | 5565 | 5644 | 5332 | 5576 | 5306 |
| 85                   | 5537 | 5586 | 5251 | 5653 | 5457 |
| 90                   | 5614 | 5316 | 5359 | 5629 | 5269 |
| 95                   | 5557 | 5452 | 5344 | 5530 | 5255 |

Type 6 Radar Waveform\_7

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5498 | 5526 | 5296 | 5594 | 5349 |
| 5                    | 5308 | 5459 | 5495 | 5645 | 5295 |
| 10                   | 5664 | 5583 | 5413 | 5497 | 5425 |
| 15                   | 5323 | 5595 | 5599 | 5705 | 5503 |
| 20                   | 5527 | 5375 | 5431 | 5534 | 5564 |
| 25                   | 5549 | 5389 | 5298 | 5407 | 5666 |
| 30                   | 5684 | 5515 | 5290 | 5335 | 5345 |
| 35                   | 5678 | 5305 | 5586 | 5574 | 5621 |
| 40                   | 5294 | 5582 | 5644 | 5650 | 5706 |
| 45                   | 5612 | 5358 | 5661 | 5579 | 5370 |
| 50                   | 5610 | 5420 | 5658 | 5590 | 5470 |
| 55                   | 5584 | 5280 | 5622 | 5266 | 5508 |
| 60                   | 5435 | 5326 | 5336 | 5399 | 5543 |
| 65                   | 5328 | 5402 | 5569 | 5365 | 5259 |
| 70                   | 5372 | 5292 | 5456 | 5603 | 5553 |
| 75                   | 5299 | 5653 | 5281 | 5546 | 5421 |
| 80                   | 5357 | 5697 | 5556 | 5702 | 5608 |
| 85                   | 5494 | 5568 | 5557 | 5319 | 5640 |
| 90                   | 5681 | 5439 | 5561 | 5361 | 5585 |
| 95                   | 5264 | 5694 | 5710 | 5396 | 5607 |

Type 6 Radar Waveform\_8

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5278 | 5290 | 5707 | 5658 | 5666 |
| 5                    | 5350 | 5481 | 5570 | 5333 | 5502 |
| 10                   | 5498 | 5372 | 5454 | 5595 | 5446 |
| 15                   | 5411 | 5722 | 5702 | 5275 | 5695 |
| 20                   | 5535 | 5444 | 5623 | 5537 | 5340 |
| 25                   | 5716 | 5404 | 5511 | 5603 | 5251 |
| 30                   | 5550 | 5497 | 5401 | 5677 | 5370 |
| 35                   | 5299 | 5683 | 5421 | 5252 | 5491 |
| 40                   | 5471 | 5609 | 5338 | 5269 | 5637 |
| 45                   | 5423 | 5400 | 5296 | 5359 | 5641 |
| 50                   | 5559 | 5643 | 5431 | 5468 | 5576 |
| 55                   | 5327 | 5309 | 5455 | 5501 | 5441 |
| 60                   | 5375 | 5445 | 5295 | 5314 | 5582 |
| 65                   | 5701 | 5262 | 5364 | 5442 | 5606 |
| 70                   | 5402 | 5653 | 5612 | 5250 | 5482 |
| 75                   | 5696 | 5527 | 5673 | 5613 | 5634 |
| 80                   | 5285 | 5483 | 5263 | 5556 | 5616 |
| 85                   | 5665 | 5703 | 5362 | 5619 | 5715 |
| 90                   | 5377 | 5484 | 5646 | 5699 | 5670 |
| 95                   | 5475 | 5640 | 5320 | 5624 | 5367 |

Type 6 Radar Waveform\_9

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5533 | 5529 | 5643 | 5344 | 5411 |
| 5                    | 5392 | 5406 | 5645 | 5496 | 5331 |
| 10                   | 5429 | 5636 | 5495 | 5315 | 5467 |
| 15                   | 5499 | 5374 | 5330 | 5320 | 5412 |
| 20                   | 5543 | 5610 | 5313 | 5615 | 5510 |
| 25                   | 5703 | 5665 | 5607 | 5637 | 5390 |
| 30                   | 5679 | 5668 | 5271 | 5696 | 5486 |
| 35                   | 5293 | 5263 | 5549 | 5694 | 5260 |
| 40                   | 5432 | 5711 | 5606 | 5479 | 5318 |
| 45                   | 5352 | 5598 | 5476 | 5287 | 5550 |
| 50                   | 5535 | 5692 | 5648 | 5466 | 5375 |
| 55                   | 5656 | 5433 | 5524 | 5280 | 5584 |
| 60                   | 5666 | 5386 | 5304 | 5552 | 5391 |
| 65                   | 5414 | 5593 | 5540 | 5525 | 5706 |
| 70                   | 5251 | 5629 | 5571 | 5597 | 5602 |
| 75                   | 5267 | 5508 | 5353 | 5565 | 5394 |
| 80                   | 5701 | 5348 | 5480 | 5458 | 5459 |
| 85                   | 5555 | 5250 | 5420 | 5327 | 5573 |
| 90                   | 5488 | 5575 | 5649 | 5652 | 5581 |
| 95                   | 5682 | 5492 | 5695 | 5342 | 5506 |

Type 6 Radar Waveform\_10

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5691 | 5293 | 5579 | 5505 | 5631 |
| 5                    | 5531 | 5428 | 5720 | 5659 | 5538 |
| 10                   | 5360 | 5425 | 5536 | 5510 | 5488 |
| 15                   | 5490 | 5404 | 5433 | 5268 | 5604 |
| 20                   | 5454 | 5679 | 5351 | 5704 | 5483 |
| 25                   | 5591 | 5517 | 5335 | 5341 | 5671 |
| 30                   | 5432 | 5279 | 5636 | 5408 | 5423 |
| 35                   | 5419 | 5625 | 5481 | 5534 | 5702 |
| 40                   | 5608 | 5515 | 5367 | 5379 | 5700 |
| 45                   | 5311 | 5298 | 5435 | 5656 | 5529 |
| 50                   | 5552 | 5426 | 5711 | 5359 | 5289 |
| 55                   | 5697 | 5369 | 5387 | 5264 | 5343 |
| 60                   | 5251 | 5713 | 5356 | 5331 | 5611 |
| 65                   | 5378 | 5337 | 5319 | 5687 | 5270 |
| 70                   | 5624 | 5388 | 5605 | 5511 | 5709 |
| 75                   | 5575 | 5530 | 5566 | 5722 | 5410 |
| 80                   | 5489 | 5578 | 5650 | 5390 | 5411 |
| 85                   | 5477 | 5653 | 5459 | 5397 | 5688 |
| 90                   | 5670 | 5261 | 5395 | 5339 | 5658 |
| 95                   | 5686 | 5366 | 5316 | 5509 | 5275 |

Type 6 Radar Waveform\_11

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5471 | 5532 | 5515 | 5666 | 5473 |
| 5                    | 5573 | 5353 | 5320 | 5250 | 5270 |
| 10                   | 5669 | 5311 | 5577 | 5705 | 5509 |
| 15                   | 5578 | 5531 | 5439 | 5313 | 5321 |
| 20                   | 5462 | 5370 | 5292 | 5696 | 5456 |
| 25                   | 5382 | 5369 | 5538 | 5445 | 5474 |
| 30                   | 5643 | 5593 | 5623 | 5672 | 5714 |
| 35                   | 5289 | 5572 | 5330 | 5380 | 5522 |
| 40                   | 5510 | 5598 | 5305 | 5619 | 5697 |
| 45                   | 5715 | 5656 | 5518 | 5582 | 5302 |
| 50                   | 5412 | 5319 | 5448 | 5587 | 5641 |
| 55                   | 5460 | 5341 | 5454 | 5637 | 5600 |
| 60                   | 5367 | 5521 | 5373 | 5443 | 5301 |
| 65                   | 5283 | 5520 | 5636 | 5306 | 5658 |
| 70                   | 5524 | 5299 | 5497 | 5712 | 5424 |
| 75                   | 5581 | 5489 | 5438 | 5553 | 5470 |
| 80                   | 5688 | 5431 | 5554 | 5571 | 5362 |
| 85                   | 5273 | 5707 | 5635 | 5504 | 5664 |
| 90                   | 5720 | 5723 | 5328 | 5526 | 5613 |
| 95                   | 5676 | 5564 | 5701 | 5674 | 5266 |

Type 6 Radar Waveform\_12

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5251 | 5296 | 5548 | 5352 | 5693 |
| 5                    | 5615 | 5375 | 5395 | 5413 | 5574 |
| 10                   | 5600 | 5575 | 5618 | 5425 | 5530 |
| 15                   | 5666 | 5658 | 5542 | 5358 | 5513 |
| 20                   | 5470 | 5439 | 5708 | 5310 | 5429 |
| 25                   | 5270 | 5318 | 5266 | 5549 | 5264 |
| 30                   | 5613 | 5629 | 5550 | 5363 | 5349 |
| 35                   | 5437 | 5331 | 5663 | 5698 | 5630 |
| 40                   | 5533 | 5303 | 5718 | 5384 | 5694 |
| 45                   | 5547 | 5636 | 5601 | 5297 | 5538 |
| 50                   | 5704 | 5653 | 5588 | 5370 | 5537 |
| 55                   | 5313 | 5488 | 5648 | 5295 | 5644 |
| 60                   | 5456 | 5571 | 5399 | 5686 | 5275 |
| 65                   | 5602 | 5326 | 5343 | 5585 | 5342 |
| 70                   | 5327 | 5371 | 5483 | 5337 | 5651 |
| 75                   | 5557 | 5448 | 5407 | 5390 | 5599 |
| 80                   | 5451 | 5634 | 5323 | 5687 | 5471 |
| 85                   | 5665 | 5265 | 5711 | 5424 | 5503 |
| 90                   | 5282 | 5669 | 5292 | 5657 | 5508 |
| 95                   | 5543 | 5385 | 5353 | 5608 | 5346 |

Type 6 Radar Waveform\_13

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5506 | 5535 | 5484 | 5513 | 5657 |
| 5                    | 5300 | 5470 | 5576 | 5306 | 5531 |
| 10                   | 5364 | 5659 | 5523 | 5551 | 5279 |
| 15                   | 5310 | 5645 | 5403 | 5327 | 5381 |
| 20                   | 5605 | 5271 | 5302 | 5402 | 5536 |
| 25                   | 5372 | 5653 | 5298 | 5655 | 5518 |
| 30                   | 5507 | 5481 | 5598 | 5257 | 5494 |
| 35                   | 5308 | 5447 | 5663 | 5386 | 5656 |
| 40                   | 5624 | 5691 | 5476 | 5616 | 5684 |
| 45                   | 5258 | 5591 | 5432 | 5289 | 5421 |
| 50                   | 5626 | 5611 | 5361 | 5724 | 5359 |
| 55                   | 5542 | 5528 | 5376 | 5263 | 5582 |
| 60                   | 5525 | 5272 | 5544 | 5534 | 5281 |
| 65                   | 5498 | 5345 | 5540 | 5566 | 5340 |
| 70                   | 5500 | 5533 | 5407 | 5510 | 5267 |
| 75                   | 5411 | 5336 | 5468 | 5697 | 5385 |
| 80                   | 5265 | 5495 | 5296 | 5519 | 5583 |
| 85                   | 5530 | 5390 | 5546 | 5440 | 5434 |
| 90                   | 5703 | 5521 | 5650 | 5664 | 5330 |
| 95                   | 5490 | 5622 | 5346 | 5312 | 5652 |

Type 6 Radar Waveform\_14

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5286 | 5299 | 5420 | 5674 | 5280 |
| 5                    | 5321 | 5322 | 5545 | 5264 | 5513 |
| 10                   | 5365 | 5628 | 5700 | 5718 | 5572 |
| 15                   | 5270 | 5437 | 5273 | 5351 | 5519 |
| 20                   | 5389 | 5296 | 5687 | 5391 | 5375 |
| 25                   | 5424 | 5594 | 5575 | 5379 | 5332 |
| 30                   | 5697 | 5407 | 5464 | 5696 | 5275 |
| 35                   | 5552 | 5609 | 5370 | 5290 | 5461 |
| 40                   | 5361 | 5599 | 5469 | 5292 | 5688 |
| 45                   | 5405 | 5596 | 5316 | 5644 | 5381 |
| 50                   | 5308 | 5465 | 5472 | 5715 | 5434 |
| 55                   | 5279 | 5549 | 5678 | 5657 | 5541 |
| 60                   | 5683 | 5511 | 5693 | 5367 | 5483 |
| 65                   | 5317 | 5708 | 5712 | 5408 | 5612 |
| 70                   | 5440 | 5349 | 5412 | 5366 | 5723 |
| 75                   | 5630 | 5313 | 5413 | 5566 | 5446 |
| 80                   | 5724 | 5474 | 5285 | 5368 | 5580 |
| 85                   | 5643 | 5259 | 5711 | 5336 | 5634 |
| 90                   | 5303 | 5431 | 5524 | 5304 | 5272 |
| 95                   | 5558 | 5495 | 5418 | 5404 | 5682 |

Type 6 Radar Waveform\_15

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5444 | 5538 | 5356 | 5263 | 5597 |
| 5                    | 5363 | 5722 | 5620 | 5427 | 5342 |
| 10                   | 5296 | 5417 | 5438 | 5593 | 5358 |
| 15                   | 5467 | 5376 | 5396 | 5711 | 5397 |
| 20                   | 5365 | 5628 | 5383 | 5348 | 5690 |
| 25                   | 5446 | 5303 | 5483 | 5366 | 5361 |
| 30                   | 5393 | 5421 | 5436 | 5524 | 5275 |
| 35                   | 5273 | 5558 | 5561 | 5372 | 5552 |
| 40                   | 5532 | 5685 | 5712 | 5576 | 5375 |
| 45                   | 5374 | 5697 | 5268 | 5659 | 5641 |
| 50                   | 5523 | 5426 | 5257 | 5698 | 5262 |
| 55                   | 5632 | 5642 | 5291 | 5387 | 5311 |
| 60                   | 5328 | 5250 | 5343 | 5652 | 5261 |
| 65                   | 5568 | 5432 | 5256 | 5540 | 5507 |
| 70                   | 5686 | 5684 | 5443 | 5673 | 5388 |
| 75                   | 5325 | 5692 | 5456 | 5491 | 5459 |
| 80                   | 5505 | 5638 | 5445 | 5300 | 5546 |
| 85                   | 5276 | 5319 | 5331 | 5301 | 5588 |
| 90                   | 5551 | 5629 | 5689 | 5310 | 5662 |
| 95                   | 5667 | 5691 | 5550 | 5402 | 5302 |

Type 6 Radar Waveform\_16

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5699 | 5302 | 5292 | 5424 | 5342 |
| 5                    | 5405 | 5269 | 5695 | 5493 | 5549 |
| 10                   | 5702 | 5303 | 5404 | 5633 | 5614 |
| 15                   | 5446 | 5594 | 5382 | 5441 | 5428 |
| 20                   | 5308 | 5531 | 5666 | 5472 | 5321 |
| 25                   | 5578 | 5298 | 5506 | 5587 | 5400 |
| 30                   | 5403 | 5282 | 5378 | 5651 | 5676 |
| 35                   | 5570 | 5315 | 5649 | 5454 | 5389 |
| 40                   | 5286 | 5277 | 5257 | 5373 | 5297 |
| 45                   | 5304 | 5641 | 5556 | 5458 | 5335 |
| 50                   | 5275 | 5533 | 5535 | 5574 | 5515 |
| 55                   | 5545 | 5450 | 5586 | 5357 | 5488 |
| 60                   | 5358 | 5440 | 5670 | 5650 | 5575 |
| 65                   | 5682 | 5391 | 5381 | 5399 | 5392 |
| 70                   | 5524 | 5543 | 5425 | 5364 | 5284 |
| 75                   | 5564 | 5395 | 5502 | 5595 | 5569 |
| 80                   | 5327 | 5508 | 5362 | 5495 | 5546 |
| 85                   | 5593 | 5523 | 5644 | 5542 | 5352 |
| 90                   | 5379 | 5413 | 5599 | 5414 | 5301 |
| 95                   | 5708 | 5605 | 5483 | 5675 | 5716 |

Type 6 Radar Waveform\_17

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5479 | 5541 | 5703 | 5585 | 5659 |
| 5                    | 5447 | 5669 | 5295 | 5656 | 5281 |
| 10                   | 5536 | 5567 | 5445 | 5353 | 5635 |
| 15                   | 5534 | 5721 | 5485 | 5486 | 5620 |
| 20                   | 5316 | 5600 | 5607 | 5464 | 5294 |
| 25                   | 5466 | 5722 | 5709 | 5691 | 5434 |
| 30                   | 5268 | 5335 | 5450 | 5293 | 5454 |
| 35                   | 5265 | 5250 | 5542 | 5675 | 5591 |
| 40                   | 5340 | 5311 | 5537 | 5301 | 5473 |
| 45                   | 5439 | 5393 | 5328 | 5420 | 5314 |
| 50                   | 5518 | 5625 | 5604 | 5489 | 5638 |
| 55                   | 5540 | 5547 | 5307 | 5329 | 5569 |
| 60                   | 5658 | 5615 | 5482 | 5401 | 5628 |
| 65                   | 5592 | 5330 | 5582 | 5670 | 5546 |
| 70                   | 5274 | 5718 | 5533 | 5418 | 5645 |
| 75                   | 5453 | 5372 | 5679 | 5394 | 5571 |
| 80                   | 5359 | 5312 | 5449 | 5532 | 5720 |
| 85                   | 5715 | 5609 | 5593 | 5475 | 5647 |
| 90                   | 5544 | 5419 | 5633 | 5674 | 5313 |
| 95                   | 5347 | 5660 | 5467 | 5573 | 5425 |

Type 6 Radar Waveform\_18

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5259 | 5305 | 5639 | 5271 | 5404 |
| 5                    | 5586 | 5691 | 5370 | 5344 | 5488 |
| 10                   | 5467 | 5356 | 5486 | 5451 | 5656 |
| 15                   | 5525 | 5373 | 5588 | 5434 | 5337 |
| 20                   | 5324 | 5291 | 5548 | 5553 | 5267 |
| 25                   | 5257 | 5574 | 5437 | 5417 | 5468 |
| 30                   | 5487 | 5632 | 5292 | 5509 | 5602 |
| 35                   | 5593 | 5521 | 5695 | 5686 | 5430 |
| 40                   | 5423 | 5724 | 5680 | 5298 | 5402 |
| 45                   | 5419 | 5624 | 5381 | 5685 | 5665 |
| 50                   | 5694 | 5676 | 5693 | 5579 | 5336 |
| 55                   | 5254 | 5494 | 5262 | 5601 | 5300 |
| 60                   | 5348 | 5560 | 5411 | 5702 | 5318 |
| 65                   | 5279 | 5317 | 5464 | 5473 | 5619 |
| 70                   | 5646 | 5598 | 5316 | 5677 | 5405 |
| 75                   | 5538 | 5692 | 5323 | 5558 | 5256 |
| 80                   | 5507 | 5352 | 5374 | 5335 | 5477 |
| 85                   | 5547 | 5723 | 5709 | 5425 | 5570 |
| 90                   | 5556 | 5422 | 5364 | 5715 | 5568 |
| 95                   | 5447 | 5280 | 5285 | 5582 | 5313 |

Type 6 Radar Waveform\_19

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5417 | 5641 | 5575 | 5432 | 5721 |
| 5                    | 5628 | 5616 | 5445 | 5507 | 5317 |
| 10                   | 5301 | 5620 | 5527 | 5646 | 5677 |
| 15                   | 5613 | 5500 | 5691 | 5479 | 5529 |
| 20                   | 5710 | 5360 | 5489 | 5545 | 5715 |
| 25                   | 5523 | 5543 | 5521 | 5502 | 5626 |
| 30                   | 5724 | 5376 | 5311 | 5635 | 5447 |
| 35                   | 5414 | 5470 | 5600 | 5366 | 5603 |
| 40                   | 5662 | 5295 | 5331 | 5399 | 5707 |
| 45                   | 5412 | 5337 | 5572 | 5541 | 5395 |
| 50                   | 5252 | 5404 | 5402 | 5280 | 5442 |
| 55                   | 5448 | 5452 | 5420 | 5649 | 5255 |
| 60                   | 5513 | 5602 | 5718 | 5625 | 5617 |
| 65                   | 5703 | 5303 | 5624 | 5356 | 5276 |
| 70                   | 5579 | 5670 | 5636 | 5374 | 5658 |
| 75                   | 5359 | 5415 | 5304 | 5327 | 5722 |
| 80                   | 5319 | 5256 | 5702 | 5352 | 5268 |
| 85                   | 5598 | 5496 | 5665 | 5431 | 5604 |
| 90                   | 5438 | 5531 | 5381 | 5435 | 5466 |
| 95                   | 5383 | 5550 | 5478 | 5655 | 5497 |

Type 6 Radar Waveform\_20

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5672 | 5405 | 5511 | 5593 | 5466 |
| 5                    | 5670 | 5638 | 5520 | 5573 | 5524 |
| 10                   | 5707 | 5409 | 5568 | 5366 | 5698 |
| 15                   | 5701 | 5530 | 5319 | 5721 | 5718 |
| 20                   | 5526 | 5527 | 5634 | 5688 | 5411 |
| 25                   | 5375 | 5271 | 5625 | 5536 | 5668 |
| 30                   | 5507 | 5681 | 5464 | 5606 | 5299 |
| 35                   | 5538 | 5685 | 5623 | 5514 | 5680 |
| 40                   | 5686 | 5600 | 5292 | 5379 | 5315 |
| 45                   | 5470 | 5390 | 5362 | 5320 | 5571 |
| 50                   | 5303 | 5493 | 5603 | 5602 | 5630 |
| 55                   | 5402 | 5642 | 5617 | 5620 | 5384 |
| 60                   | 5678 | 5547 | 5550 | 5451 | 5563 |
| 65                   | 5342 | 5652 | 5717 | 5359 | 5626 |
| 70                   | 5554 | 5385 | 5662 | 5296 | 5646 |
| 75                   | 5595 | 5502 | 5396 | 5556 | 5437 |
| 80                   | 5360 | 5382 | 5253 | 5422 | 5255 |
| 85                   | 5328 | 5719 | 5310 | 5552 | 5269 |
| 90                   | 5388 | 5564 | 5543 | 5398 | 5350 |
| 95                   | 5516 | 5364 | 5265 | 5653 | 5676 |

Type 6 Radar Waveform\_21

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5452 | 5644 | 5447 | 5279 | 5308 |
| 5                    | 5334 | 5563 | 5595 | 5261 | 5256 |
| 10                   | 5638 | 5295 | 5609 | 5561 | 5719 |
| 15                   | 5314 | 5657 | 5325 | 5569 | 5535 |
| 20                   | 5251 | 5468 | 5626 | 5661 | 5299 |
| 25                   | 5702 | 5474 | 5254 | 5570 | 5710 |
| 30                   | 5396 | 5582 | 5302 | 5426 | 5438 |
| 35                   | 5481 | 5301 | 5525 | 5519 | 5294 |
| 40                   | 5538 | 5353 | 5386 | 5567 | 5359 |
| 45                   | 5398 | 5528 | 5443 | 5724 | 5671 |
| 50                   | 5272 | 5354 | 5546 | 5343 | 5259 |
| 55                   | 5357 | 5436 | 5591 | 5513 | 5368 |
| 60                   | 5492 | 5382 | 5374 | 5509 | 5640 |
| 65                   | 5601 | 5278 | 5666 | 5518 | 5260 |
| 70                   | 5457 | 5648 | 5277 | 5523 | 5622 |
| 75                   | 5554 | 5690 | 5326 | 5548 | 5377 |
| 80                   | 5333 | 5450 | 5616 | 5478 | 5445 |
| 85                   | 5250 | 5617 | 5633 | 5472 | 5291 |
| 90                   | 5339 | 5275 | 5603 | 5517 | 5683 |
| 95                   | 5540 | 5575 | 5580 | 5652 | 5512 |

Type 6 Radar Waveform\_22

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5707 | 5408 | 5383 | 5440 | 5528 |
| 5                    | 5376 | 5585 | 5670 | 5424 | 5560 |
| 10                   | 5472 | 5559 | 5650 | 5281 | 5265 |
| 15                   | 5305 | 5309 | 5428 | 5517 | 5252 |
| 20                   | 5637 | 5286 | 5409 | 5715 | 5634 |
| 25                   | 5565 | 5651 | 5677 | 5358 | 5604 |
| 30                   | 5374 | 5285 | 5595 | 5322 | 5551 |
| 35                   | 5624 | 5577 | 5342 | 5277 | 5439 |
| 40                   | 5377 | 5476 | 5593 | 5399 | 5339 |
| 45                   | 5481 | 5489 | 5496 | 5514 | 5547 |
| 50                   | 5448 | 5405 | 5671 | 5724 | 5393 |
| 55                   | 5531 | 5688 | 5255 | 5562 | 5642 |
| 60                   | 5533 | 5437 | 5689 | 5675 | 5552 |
| 65                   | 5366 | 5550 | 5314 | 5401 | 5313 |
| 70                   | 5538 | 5626 | 5280 | 5372 | 5598 |
| 75                   | 5513 | 5659 | 5446 | 5691 | 5397 |
| 80                   | 5605 | 5722 | 5434 | 5633 | 5411 |
| 85                   | 5351 | 5618 | 5557 | 5290 | 5406 |
| 90                   | 5419 | 5546 | 5609 | 5365 | 5664 |
| 95                   | 5529 | 5460 | 5484 | 5635 | 5601 |

Type 6 Radar Waveform\_23

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5487 | 5647 | 5319 | 5504 | 5370 |
| 5                    | 5418 | 5607 | 5270 | 5587 | 5292 |
| 10                   | 5403 | 5348 | 5313 | 5379 | 5286 |
| 15                   | 5393 | 5436 | 5531 | 5562 | 5444 |
| 20                   | 5645 | 5355 | 5447 | 5707 | 5453 |
| 25                   | 5503 | 5405 | 5559 | 5638 | 5416 |
| 30                   | 5271 | 5552 | 5537 | 5703 | 5619 |
| 35                   | 5433 | 5704 | 5353 | 5294 | 5557 |
| 40                   | 5317 | 5358 | 5380 | 5328 | 5564 |
| 45                   | 5547 | 5549 | 5401 | 5423 | 5624 |
| 50                   | 5456 | 5382 | 5337 | 5719 | 5642 |
| 55                   | 5640 | 5452 | 5674 | 5698 | 5479 |
| 60                   | 5618 | 5501 | 5498 | 5664 | 5499 |
| 65                   | 5253 | 5708 | 5583 | 5341 | 5620 |
| 70                   | 5696 | 5574 | 5472 | 5566 | 5262 |
| 75                   | 5339 | 5362 | 5670 | 5653 | 5331 |
| 80                   | 5668 | 5629 | 5536 | 5314 | 5626 |
| 85                   | 5608 | 5441 | 5701 | 5584 | 5546 |
| 90                   | 5722 | 5298 | 5515 | 5565 | 5533 |
| 95                   | 5580 | 5417 | 5366 | 5395 | 5517 |

Type 6 Radar Waveform\_24

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5645 | 5411 | 5255 | 5665 | 5590 |
| 5                    | 5460 | 5532 | 5345 | 5653 | 5499 |
| 10                   | 5334 | 5612 | 5354 | 5574 | 5307 |
| 15                   | 5481 | 5563 | 5634 | 5607 | 5636 |
| 20                   | 5521 | 5388 | 5321 | 5580 | 5341 |
| 25                   | 5452 | 5511 | 5663 | 5672 | 5458 |
| 30                   | 5635 | 5509 | 5277 | 5477 | 5642 |
| 35                   | 5283 | 5524 | 5441 | 5382 | 5364 |
| 40                   | 5608 | 5640 | 5598 | 5377 | 5677 |
| 45                   | 5647 | 5605 | 5602 | 5666 | 5325 |
| 50                   | 5507 | 5471 | 5273 | 5659 | 5335 |
| 55                   | 5596 | 5355 | 5271 | 5407 | 5328 |
| 60                   | 5424 | 5450 | 5444 | 5390 | 5448 |
| 65                   | 5289 | 5443 | 5475 | 5619 | 5392 |
| 70                   | 5703 | 5383 | 5545 | 5550 | 5431 |
| 75                   | 5500 | 5686 | 5405 | 5417 | 5614 |
| 80                   | 5683 | 5531 | 5495 | 5256 | 5349 |
| 85                   | 5439 | 5570 | 5374 | 5343 | 5451 |
| 90                   | 5562 | 5689 | 5274 | 5558 | 5604 |
| 95                   | 5473 | 5549 | 5462 | 5712 | 5461 |

Type 6 Radar Waveform\_25

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5425 | 5650 | 5666 | 5351 | 5432 |
| 5                    | 5599 | 5554 | 5420 | 5341 | 5328 |
| 10                   | 5643 | 5401 | 5395 | 5294 | 5569 |
| 15                   | 5593 | 5262 | 5555 | 5353 | 5564 |
| 20                   | 5687 | 5329 | 5313 | 5553 | 5607 |
| 25                   | 5304 | 5714 | 5292 | 5706 | 5597 |
| 30                   | 5524 | 5466 | 5629 | 5462 | 5422 |
| 35                   | 5615 | 5712 | 5632 | 5278 | 5447 |
| 40                   | 5723 | 5668 | 5266 | 5374 | 5657 |
| 45                   | 5255 | 5566 | 5558 | 5501 | 5560 |
| 50                   | 5571 | 5603 | 5523 | 5550 | 5545 |
| 55                   | 5565 | 5378 | 5457 | 5369 | 5282 |
| 60                   | 5250 | 5390 | 5591 | 5397 | 5703 |
| 65                   | 5275 | 5270 | 5464 | 5689 | 5483 |
| 70                   | 5297 | 5429 | 5372 | 5331 | 5451 |
| 75                   | 5398 | 5318 | 5312 | 5562 | 5416 |
| 80                   | 5616 | 5544 | 5439 | 5509 | 5337 |
| 85                   | 5535 | 5613 | 5719 | 5661 | 5517 |
| 90                   | 5389 | 5419 | 5580 | 5528 | 5533 |
| 95                   | 5426 | 5441 | 5693 | 5435 | 5556 |

Type 6 Radar Waveform\_26

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5680 | 5414 | 5602 | 5512 | 5652 |
| 5                    | 5641 | 5479 | 5495 | 5504 | 5535 |
| 10                   | 5574 | 5665 | 5436 | 5489 | 5349 |
| 15                   | 5560 | 5720 | 5268 | 5600 | 5545 |
| 20                   | 5572 | 5281 | 5367 | 5402 | 5526 |
| 25                   | 5631 | 5442 | 5396 | 5265 | 5639 |
| 30                   | 5510 | 5423 | 5610 | 5403 | 5660 |
| 35                   | 5464 | 5328 | 5605 | 5310 | 5667 |
| 40                   | 5286 | 5331 | 5606 | 5506 | 5468 |
| 45                   | 5493 | 5637 | 5338 | 5624 | 5611 |
| 50                   | 5343 | 5429 | 5677 | 5609 | 5649 |
| 55                   | 5394 | 5450 | 5711 | 5260 | 5384 |
| 60                   | 5586 | 5718 | 5411 | 5589 | 5551 |
| 65                   | 5433 | 5346 | 5264 | 5485 | 5603 |
| 70                   | 5536 | 5675 | 5486 | 5621 | 5405 |
| 75                   | 5252 | 5341 | 5354 | 5594 | 5379 |
| 80                   | 5546 | 5568 | 5251 | 5613 | 5361 |
| 85                   | 5342 | 5351 | 5397 | 5630 | 5284 |
| 90                   | 5567 | 5710 | 5604 | 5271 | 5528 |
| 95                   | 5694 | 5583 | 5614 | 5324 | 5323 |

Type 6 Radar Waveform\_27

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5460 | 5653 | 5538 | 5673 | 5494 |
| 5                    | 5683 | 5501 | 5570 | 5667 | 5267 |
| 10                   | 5408 | 5551 | 5477 | 5684 | 5370 |
| 15                   | 5648 | 5372 | 5371 | 5645 | 5262 |
| 20                   | 5580 | 5447 | 5308 | 5394 | 5499 |
| 25                   | 5286 | 5597 | 5677 | 5681 | 5399 |
| 30                   | 5380 | 5350 | 5555 | 5480 | 5603 |
| 35                   | 5419 | 5401 | 5463 | 5678 | 5600 |
| 40                   | 5511 | 5544 | 5271 | 5465 | 5325 |
| 45                   | 5617 | 5421 | 5682 | 5664 | 5705 |
| 50                   | 5305 | 5378 | 5660 | 5263 | 5692 |
| 55                   | 5424 | 5458 | 5450 | 5581 | 5698 |
| 60                   | 5715 | 5356 | 5474 | 5379 | 5615 |
| 65                   | 5295 | 5300 | 5317 | 5432 | 5406 |
| 70                   | 5661 | 5489 | 5470 | 5381 | 5686 |
| 75                   | 5688 | 5640 | 5360 | 5323 | 5441 |
| 80                   | 5349 | 5415 | 5542 | 5610 | 5556 |
| 85                   | 5720 | 5668 | 5347 | 5627 | 5618 |
| 90                   | 5483 | 5294 | 5488 | 5531 | 5637 |
| 95                   | 5711 | 5638 | 5598 | 5697 | 5302 |

Type 6 Radar Waveform\_28

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5618 | 5417 | 5474 | 5359 | 5714 |
| 5                    | 5250 | 5426 | 5645 | 5258 | 5571 |
| 10                   | 5339 | 5340 | 5518 | 5307 | 5391 |
| 15                   | 5261 | 5499 | 5690 | 5454 | 5491 |
| 20                   | 5516 | 5724 | 5483 | 5472 | 5649 |
| 25                   | 5432 | 5373 | 5701 | 5711 | 5345 |
| 30                   | 5385 | 5337 | 5565 | 5329 | 5300 |
| 35                   | 5267 | 5510 | 5672 | 5713 | 5592 |
| 40                   | 5536 | 5594 | 5482 | 5511 | 5462 |
| 45                   | 5254 | 5597 | 5504 | 5643 | 5717 |
| 50                   | 5495 | 5559 | 5554 | 5449 | 5418 |
| 55                   | 5716 | 5612 | 5412 | 5640 | 5400 |
| 60                   | 5669 | 5369 | 5573 | 5301 | 5350 |
| 65                   | 5325 | 5438 | 5341 | 5527 | 5702 |
| 70                   | 5684 | 5302 | 5269 | 5589 | 5319 |
| 75                   | 5357 | 5657 | 5308 | 5575 | 5551 |
| 80                   | 5605 | 5579 | 5607 | 5276 | 5720 |
| 85                   | 5420 | 5442 | 5572 | 5256 | 5460 |
| 90                   | 5459 | 5679 | 5522 | 5413 | 5253 |
| 95                   | 5693 | 5582 | 5595 | 5281 | 5430 |

Type 6 Radar Waveform\_29

| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
|----------------------|------|------|------|------|------|
| 0                    | 5398 | 5656 | 5410 | 5520 | 5556 |
| 5                    | 5389 | 5448 | 5720 | 5421 | 5303 |
| 10                   | 5270 | 5604 | 5559 | 5502 | 5412 |
| 15                   | 5349 | 5626 | 5577 | 5638 | 5268 |
| 20                   | 5499 | 5682 | 5287 | 5475 | 5445 |
| 25                   | 5440 | 5381 | 5479 | 5330 | 5387 |
| 30                   | 5274 | 5294 | 5683 | 5481 | 5498 |
| 35                   | 5406 | 5601 | 5468 | 5391 | 5506 |
| 40                   | 5375 | 5677 | 5420 | 5654 | 5459 |
| 45                   | 5561 | 5587 | 5701 | 5295 | 5382 |
| 50                   | 5435 | 5255 | 5538 | 5716 | 5660 |
| 55                   | 5325 | 5366 | 5355 | 5694 | 5640 |
| 60                   | 5401 | 5263 | 5721 | 5657 | 5698 |
| 65                   | 5368 | 5639 | 5290 | 5275 | 5359 |
| 70                   | 5594 | 5487 | 5471 | 5592 | 5643 |
| 75                   | 5333 | 5529 | 5714 | 5451 | 5322 |
| 80                   | 5352 | 5564 | 5386 | 5646 | 5507 |
| 85                   | 5623 | 5449 | 5383 | 5634 | 5460 |
| 90                   | 5526 | 5504 | 5658 | 5624 | 5685 |
| 95                   | 5673 | 5283 | 5273 | 5663 | 5493 |

## **Appendix B – Test Setup Photograph**

Refer to “2308RSU067-UT” file.

## **Appendix C – EUT Photograph**

Refer to “2308RSU067-UE” file.

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The End

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