

# Dynamic Frequency Selection (DFS)

## Test Report

Product Name : Tablet  
Brand Name : MiTAC  
Model No. : Cappuccino-Tablet  
FCC ID : 2ADL6-CAPPUCCINO

Applicant : MITAC COMPUTING TECHNOLOGY  
CORPORATION

Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist.,  
TAOYUAN, 33383 Taiwan

Date of Receipt : Jan. 26, 2022  
Issued Date : Mar. 16, 2022  
Report No. : 2210786R-RFUSDFSV01-A  
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

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# Test Report Certification



Product Name : Tablet  
Applicant : MITAC COMPUTING TECHNOLOGY CORPORATION  
Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., TAOYUAN, 33383  
Taiwan  
Manufacturer : MITAC COMPUTING TECHNOLOGY CORPORATION  
Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., TAOYUAN, 33383  
Taiwan  
Model No. : Cappuccino-Tablet  
FCC ID : 2ADL6-CAPPUCCINO  
EUT Voltage : AC 120 ~ 240V, 50-60Hz (Adapter)  
DC 7.6V (Battery)  
Testing Voltage : AC 120V/60Hz  
Brand Name : MITAC  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407  
ANSI C63.10: 2013  
Laboratory Name : Hsin Chu Laboratory  
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu  
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Test Result : Complied

Documented By :



( Hailey Peng / Senior Engineer )

Approved By :



( Louis Hsu / Deputy Manager )

The test results relate only to the samples tested.

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### Revision History

| Version | Description             | Issued Date   |
|---------|-------------------------|---------------|
| V1.0    | Initial issue of report | Mar. 16, 2022 |
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## TABLE OF CONTENTS

| Description                                                                                                                | Page      |
|----------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>1. GENERAL INFORMATION .....</b>                                                                                        | <b>5</b>  |
| 1.1. EUT Description.....                                                                                                  | 5         |
| 1.2. Standard Requirement.....                                                                                             | 8         |
| 1.3. UNII Device Description.....                                                                                          | 8         |
| 1.4. Test Facility.....                                                                                                    | 9         |
| 1.5. Test Equipment.....                                                                                                   | 10        |
| 1.6. Measurement Uncertainty .....                                                                                         | 10        |
| 1.7. Test Setup .....                                                                                                      | 11        |
| 1.8. DFS Detection Thresholds.....                                                                                         | 11        |
| 1.9. Radar Test Waveforms .....                                                                                            | 13        |
| 1.10. Radar Waveform Calibration.....                                                                                      | 17        |
| 1.11. Radar Waveform Calibration Result.....                                                                               | 18        |
| 1.12. Master Data Traffic Plot Result .....                                                                                | 24        |
| <b>2. IN-SERVICE MONITORING FOR CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD .....</b> | <b>27</b> |
| 2.1. Test Procedure .....                                                                                                  | 27        |
| 2.2. Test Requirement .....                                                                                                | 27        |
| 2.3. Uncertainty.....                                                                                                      | 27        |
| 2.4. Test Result of Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period.....                  | 28        |
| <b>3. STATISTICAL PERFORMANCE CHECK .....</b>                                                                              | <b>40</b> |
| 3.1. Test Procedure .....                                                                                                  | 40        |
| 3.2. Test Requirement .....                                                                                                | 40        |
| 3.3. Test Result of Statistical Performance Check.....                                                                     | 42        |
| <b>APPENDIX A .....</b>                                                                                                    | <b>78</b> |
| <input type="checkbox"/> Test Setup Photograph .....                                                                       | 78        |

## 1. General Information

### 1.1. EUT Description

|                                                 |                                                   |                                                                                                  |
|-------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Product Name                                    | Tablet                                            |                                                                                                  |
| Brand Name                                      | MiTAC                                             |                                                                                                  |
| Model No.                                       | Cappuccino-Tablet                                 |                                                                                                  |
| DFS Frequency Range /<br>Number of DFS Channels | IEEE 802.11a /                                    | 5260 ~ 5320 MHz / 4 Channels<br>5500 ~ 5700 MHz / 11 Channels                                    |
|                                                 | IEEE 802.11n (20 MHz) /<br>IEEE 802.11ac (20 MHz) |                                                                                                  |
|                                                 | IEEE 802.11n (40 MHz) /<br>IEEE 802.11ac (40 MHz) | 5270 ~ 5310 MHz / 2 Channels<br>5510 ~ 5670 MHz / 5 Channels                                     |
|                                                 | IEEE 802.11ac (80 MHz)                            | 5290 MHz / 1 Channel<br>5530 ~ 5610 MHz / 2 Channels                                             |
|                                                 |                                                   |                                                                                                  |
| Type of Modulation                              | IEEE 802.11a/n/ac                                 | OFDM                                                                                             |
| Data Rate                                       | IEEE 802.11a                                      | 6, 9, 12, 18, 24, 36, 48, 54 Mbps                                                                |
|                                                 | IEEE 802.11n                                      | Support a subset of the combination of GI,<br>MCS 0 ~ MCS 15 and bandwidth defined in<br>802.11n |
|                                                 | IEEE 802.11ac                                     | Support a subset of the combination of GI,<br>MCS 0 ~ MCS 9 and bandwidth defined in<br>802.11ac |
| Channel Control                                 | Auto                                              |                                                                                                  |
| Channel Bandwidth                               | 20/40/80MHz                                       |                                                                                                  |
| DFS Function                                    | <input type="checkbox"/>                          | Master                                                                                           |
|                                                 | <input type="checkbox"/>                          | Client with radar detection                                                                      |
|                                                 | <input checked="" type="checkbox"/>               | Client without radar detection                                                                   |
| TPC Function                                    | <input type="checkbox"/>                          | With TPC Function                                                                                |
|                                                 | <input checked="" type="checkbox"/>               | Without TPC Function                                                                             |
| Weather Band (5600~5650MHz)                     | <input checked="" type="checkbox"/>               | With 5600~5650MHz                                                                                |
|                                                 | <input type="checkbox"/>                          | Without 5600~5650MHz                                                                             |
| Communication Mode                              | <input checked="" type="checkbox"/>               | IP Based Systems                                                                                 |
|                                                 | <input type="checkbox"/>                          | Frame Based System                                                                               |
|                                                 | <input type="checkbox"/>                          | Other System                                                                                     |

| Accessories Information |                                                        |            |                    |                                                                                                                         |
|-------------------------|--------------------------------------------------------|------------|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| No.                     | Equipment Name                                         | Brand Name | Model No.          | Rating                                                                                                                  |
| 1                       | Power Adapter with power cord (for EUT)                | APD        | NB65B19            | INPUT: 100 ~ 240V,50/60Hz, 1.6A<br>OUTPUT: 19V, 3.42A<br>Cable In: Non-Shielded, 0.9 m<br>Cable Out: Non-Shielded, 1.7m |
| 2                       | Power Adapter (for Docking Station or Extension Cover) | DELTA      | DPS-180AB-21       | INPUT: 100 ~ 240V,50/60Hz, 3-1.5A<br>OUTPUT: 24V, 7.5A<br>Cable Out: Non-Shielded, 1.2m with 2 ferrite cores            |
| 3                       | Power cord (for Docking Station or Extension Cover)    | DELTA      | CCBL-0317          | Cable In: Non-Shielded, 1.7 m                                                                                           |
| 4                       | Battery                                                | Getac      | BP-CAP-21/2570 VKB | 7.6V, 2570mAh, 19.532Wh                                                                                                 |
| No.                     | Equipment Name                                         | Brand Name |                    | Model No.                                                                                                               |
| 5                       | Docking Station                                        | Cappuccino |                    | Cappuccino-Docking Station                                                                                              |
| 6                       | Extension Cover                                        | Cappuccino |                    | Cappuccino-Extension Cover                                                                                              |
| 7                       | Charging Cradle                                        | Cappuccino |                    | Cappuccino-Charging Cradle                                                                                              |
| No.                     | Equipment Name                                         | Remark     |                    |                                                                                                                         |
| 8                       | Strap                                                  | 1Pcs       |                    |                                                                                                                         |

| Antenna Information |            |                   |              |                    |                            |                        |
|---------------------|------------|-------------------|--------------|--------------------|----------------------------|------------------------|
| Ant.                | Brand Name | Model No.         | Type         | Antenna Gain (dBi) | Maximum Antenna Gain (dBi) | Directional Gain (dBi) |
| 0                   | ARISTOTLE  | RFA-25-AP957-MAIN | PIFA Antenna | 4.06               | 4.06                       | 7.01                   |
| 1                   | ARISTOTLE  | RFA-25-AP957-AUX  | PIFA Antenna | 3.94               |                            |                        |

**For IEEE 802.11a/n/ac Mode: (2TX, 2RX)**

Both Ant. 0 and Ant. 1 can be used as transmitting/receiving antennas, and them can transmit/receive signal simultaneously.

**Channel List****IEEE 802.11a & IEEE 802.11n/ac (20 MHz)**

| Working Frequency of Each Channel |           |         |           |         |           |         |           |
|-----------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                           | Frequency | 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  | -       | -         |

**IEEE 802.11n/ac (40 MHz)**

| Working Frequency of Each Channel |           |         |           |         |           |         |           |
|-----------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                           | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 54                                | 5270MHz   | 62      | 5310 MHz  | 102     | 5510 MHz  | 110     | 5550 MHz  |
| 118                               | 5590MHz   | 126     | 5630 MHz  | 134     | 5670 MHz  | -       | -         |

**IEEE 802.11ac (80 MHz)**

| Working Frequency of Each Channel: |           |         |           |         |           |         |           |
|------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                            | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 58                                 | 5290 MHz  | 106     | 5530 MHz  | 122     | 5610 MHz  | -       | -         |

|           |                     |
|-----------|---------------------|
| Test Mode | Mode 1: Normal Link |
|-----------|---------------------|

**Note:**

1. The above EUT information is declared by the manufacturer.
2. This product is an extension of original one reported under DEKRA project number: 2040094R.  
Adding 5GHz band 2~band 3 for the changed of the product with respect to the original one, and it was performance checked for all test items.

## 1.2. Standard Requirement

### FCC Part 15.407:

U-NII devices operating in the 5.25 ~ 5.35 GHz band and the 5.47 ~ 5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an E.I.R.P. of less than 500mW.

U-NII devices operating in the 5.25 ~ 5.35 GHz and 5.47 ~ 5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

## 1.3. UNII Device Description

(1) The EUT operates in the following DFS band:

1. 5250 ~ 5350 MHz
2. 5470 ~ 5725 MHz

(2) The U-NII device maximum power is 14.417 dBm (E.I.R.P.).

Below are the available 50 ohm antenna assemblies and their corresponding gains. 0dBi gain was used to set the -63 dBm threshold level (-64dBm +1 dB) during calibration of the test setup.

(3) WLAN traffic is generated by the test software "Lan Tx Rx Test Utility Version 2.0.0.2" from the Master device to the Slave device in the transfer data rate >17%.

(4) For the 5250 ~ 5350 MHz and 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.

#### 1.4. Test Facility

**USA** : FCC Registration Number: TW3024  
**Canada** CAB identifier : TW3024

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

|                                                                                                                                      |                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Laboratory                                                                                                                      | DEKRA Testing and Certification Co., Ltd.                                                                                                                                              |
| Address                                                                                                                              | 1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.<br>2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. |
| Phone number                                                                                                                         | 1. +886-3-582-8001<br>2. +886-3-582-8001                                                                                                                                               |
| Fax number                                                                                                                           | 1. +886-3-582-8958<br>2. +886-3-582-8958                                                                                                                                               |
| E mail address                                                                                                                       | <a href="mailto:info.tw@dekra.com">info.tw@dekra.com</a>                                                                                                                               |
| Website                                                                                                                              | <a href="http://www.dekra.com.tw">http://www.dekra.com.tw</a>                                                                                                                          |
| Note: Test site number for address 1 includes SR2-H. Test site number for address 2 includes CB2-H, CB3-H, CB4-H, SR10-H and SR12-H. |                                                                                                                                                                                        |

| Test Condition | Test Site No. | Test Engineer | Test Environment (°C / %) | Test Date |
|----------------|---------------|---------------|---------------------------|-----------|
| DFS            | SR10-H        | Neil Yeh      | 19.7 / 67                 | 2022/2/14 |

## 1.5. Test Equipment

SR10-H

| Instrument                  | Manufacturer | Model No.  | Serial No. | Cal. Date  | Next Cal. Date |
|-----------------------------|--------------|------------|------------|------------|----------------|
| Spectrum Analyzer           | Agilent      | N9010A     | US47140172 | 2021/05/28 | 2022/05/27     |
| ESG Vector Signal Generator | Agilent      | E4438C     | MY45095759 | 2021/04/23 | 2022/04/22     |
| MXG Vector Signal Generator | Keysight     | N5182B     | MY53052548 | 2022/01/17 | 2023/01/16     |
| Horn Antenna                | Schwarzbeck  | BBHA 9120D | 639        | 2021/05/17 | 2022/05/16     |
| Horn Antenna                | Schwarzbeck  | BBHA 9120D | 01656      | 2021/09/29 | 2022/09/28     |
| EXA Signal Analyzer         | Keysight     | N9010A     | MY51440132 | 2022/01/07 | 2023/01/06     |
| Spectrum Analyzer           | Keysight     | N9030B     | MY57140404 | 2021/05/14 | 2022/05/13     |
| Signal & Spectrum Analyzer  | R&S          | FSV40      | 101049     | 2021/03/31 | 2022/03/30     |

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

| Instrument        | Manufacturer  | Type No.         | Serial No    | FCC ID       |
|-------------------|---------------|------------------|--------------|--------------|
| Laptop PC         | DELL          | Vostro A860      | CD8BMH1      | --           |
| Laptop PC         | ASUS          | K45VD            | 0343G3110M   | --           |
| Wireless Router   | ASUS          | RT-AX88U         | JCITHP000063 | MSQ-RTAXHP00 |
| ATT (Qty: 3)      | Mini-Circuits | BW-S3W2 DC-18GHz | 0025         | --           |
| RF Cable (Qty: 6) | Schaffner     |                  | 25494/6      | --           |

| Software                               | Manufacturer | Function                         |
|----------------------------------------|--------------|----------------------------------|
| Agilent Signal Studio for DFS_V1.0.0   | Agilent      | Radar Signal Generation Software |
| Lan Tx Rx Test Utility Version 2.0.0.2 | -            | LanTest2.0                       |
| Device Firmware Version                | MITAC        | 12.0.0.927                       |

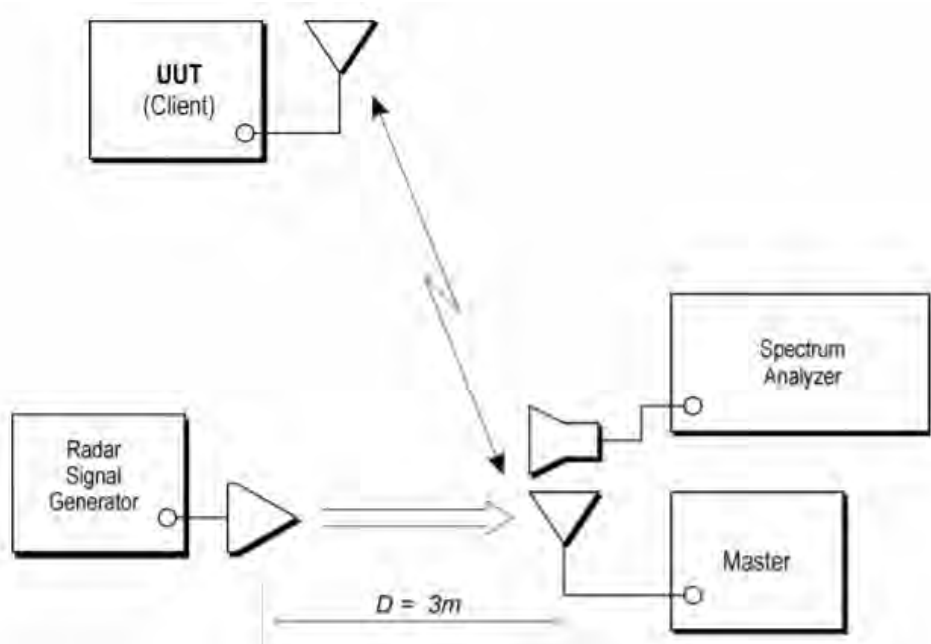
## 1.6. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2).

| Test item | Uncertainty   |
|-----------|---------------|
| DFS       | $\pm 0.74$ dB |

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 1.7. Test Setup



## 1.8. DFS Detection Thresholds

### (1) Interference Threshold value, Master or Client incorporating In-Service Monitoring

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Value (see note) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| $\geq 200$ milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -64dBm           |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                           | -62dBm           |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement                                                                                                                                                                                                                                                                                                                                                                                                                           | -64dBm           |
| Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna<br>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.<br>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01. |                  |

**(2) DFS Response requirement values**

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Value                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Non-Occupancy Period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Minimum 30 Minutes                                                                                     |
| Channel Availability Check Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60 Seconds                                                                                             |
| Channel Move Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 Seconds<br>(See Note 1)                                                                             |
| Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period<br>(See Note 1 and Note 2) |
| U-NII Detection Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Minimum 100% of the 99% power bandwidth<br>(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> |                                                                                                        |

## 1.9. Radar Test Waveforms

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

### (1) Short Pulse Radar Test Waveforms

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

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

**(2) Long Pulse Radar Test Signal**

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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the long pulse radar test signal. If more than 30 waveforms are used for the long pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.

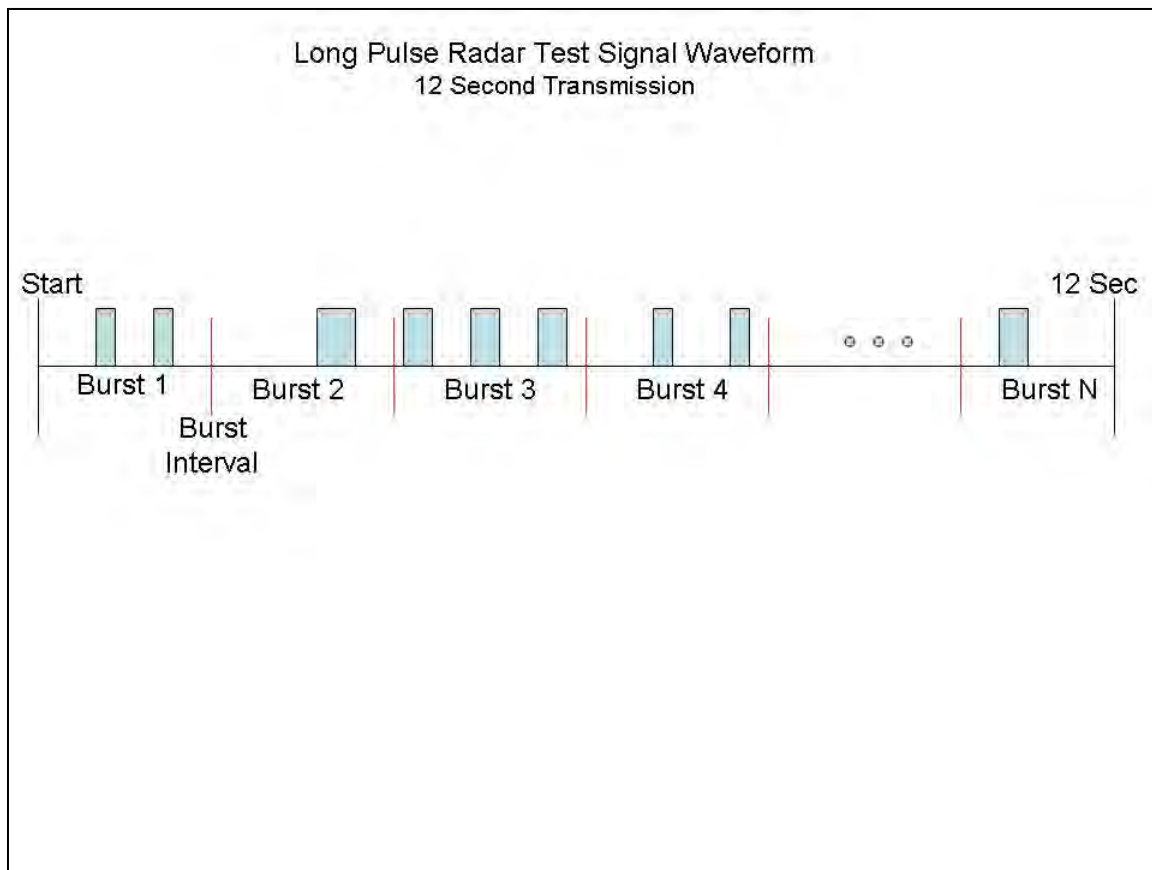
**Each waveform is defined as follows:**

- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst\_Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- 5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- 6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst\_Count. Each interval is of length  $(12,000,000 / \text{Burst\_Count})$  microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and  $[(12,000,000 / \text{Burst\_Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$  microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

**A representative example of a Long Pulse radar test waveform:**

- 1) The total test signal length is 12 seconds.
- 2) 8 Bursts are randomly generated for the Burst\_Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 – 5.
- 7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

### Graphical Representation of a Long Pulse radar Test Waveform



### (3) Frequency Hopping Radar Test Signal

| Radar Waveform | Pulse Width ( $\mu\text{sec}$ ) | PRI ( $\mu\text{sec}$ ) | Hopping Sequence Length (msec) | Pulses Per Hop | Hopping Rate (kHz) | Minimum Percentage of Successful Detection | Minimum Trials |
|----------------|---------------------------------|-------------------------|--------------------------------|----------------|--------------------|--------------------------------------------|----------------|
| 6              | 1                               | 333                     | 300                            | 9              | 0.333              | 70%                                        | 30             |

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

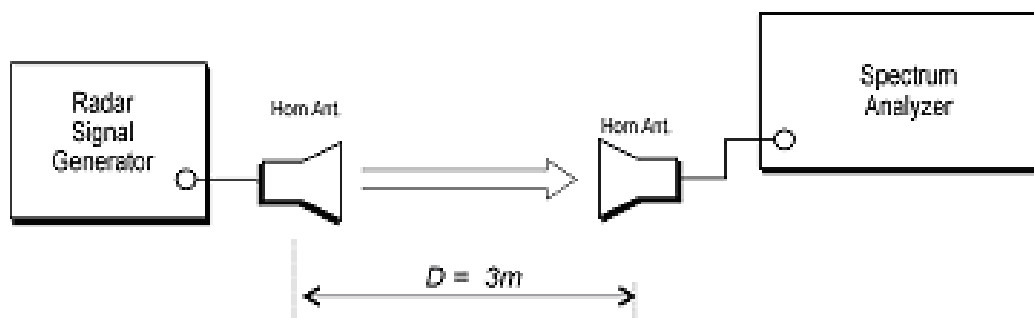
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues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

### 1.10. Radar Waveform Calibration

The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 50ohm terminal from 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 utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 1MHz and 1MHz.

The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -63dBm due to the interference threshold level is not required.

#### Radiated Calibration Setup

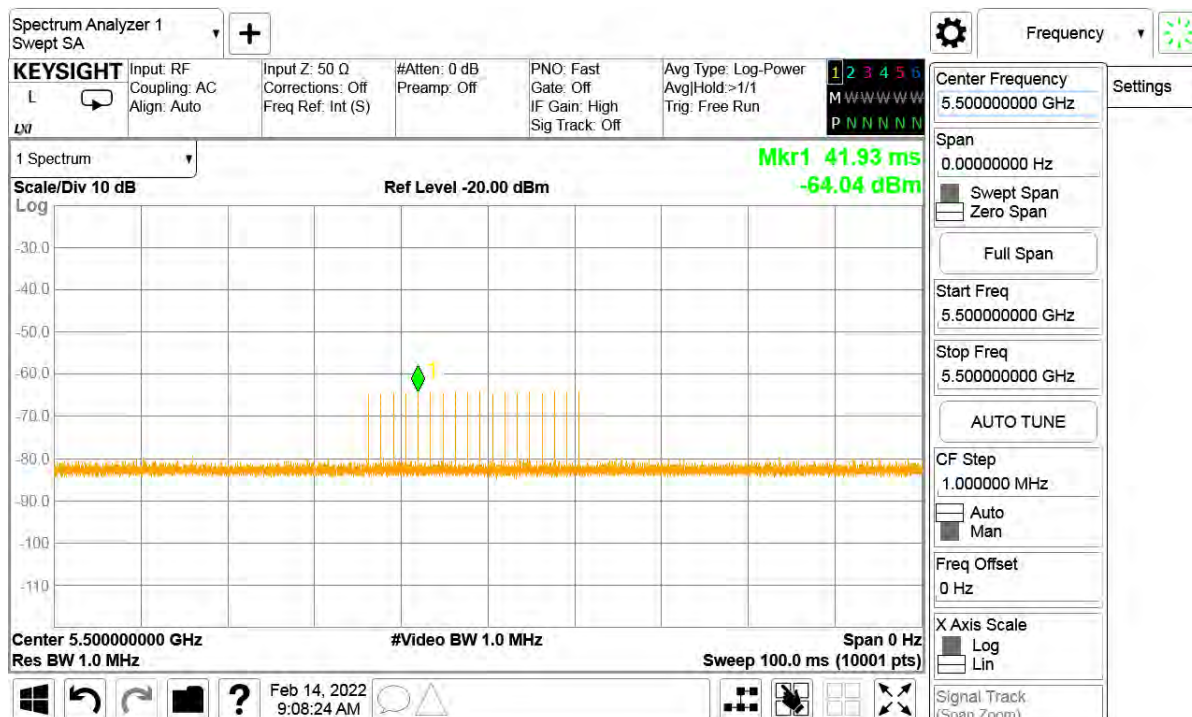


## 1.11. Radar Waveform Calibration Result



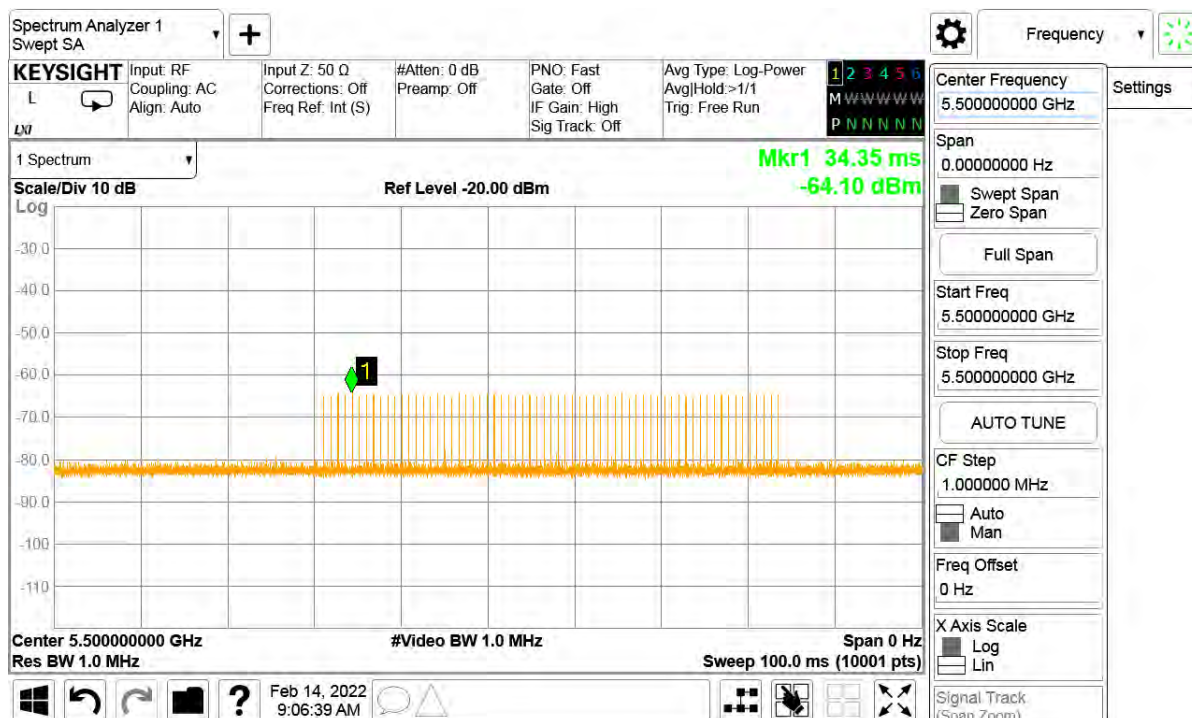
## Radar Type 0

## Calibration Plot - 802.11ac (20 MHz), 5500 MHz



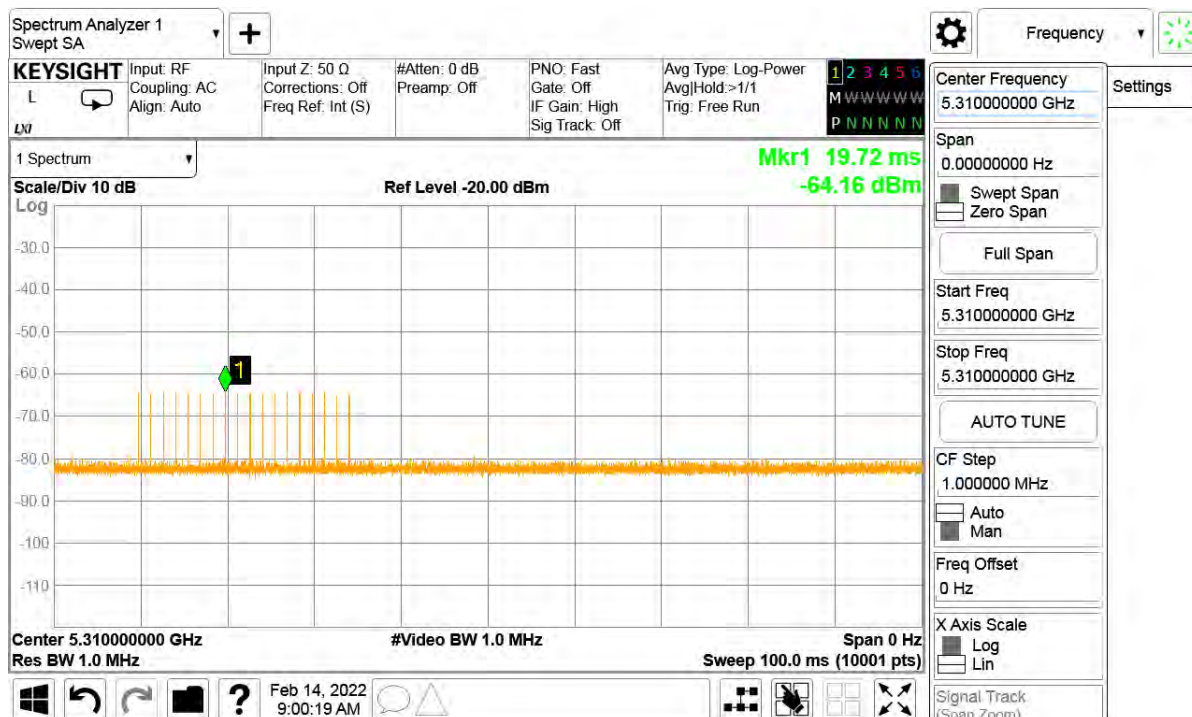
## Radar Type 1

## Calibration Plot - 802.11ac (20 MHz), 5500 MHz



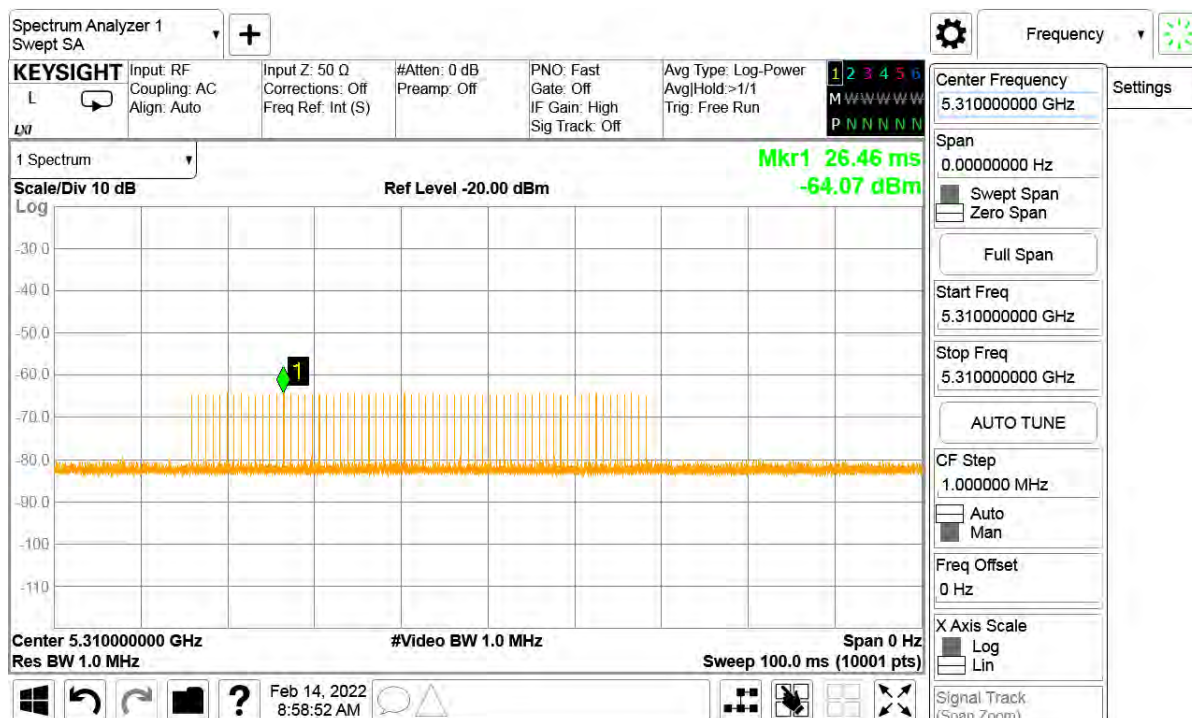
## Radar Type 0

## Calibration Plot - 802.11ac (40 MHz), 5310 MHz



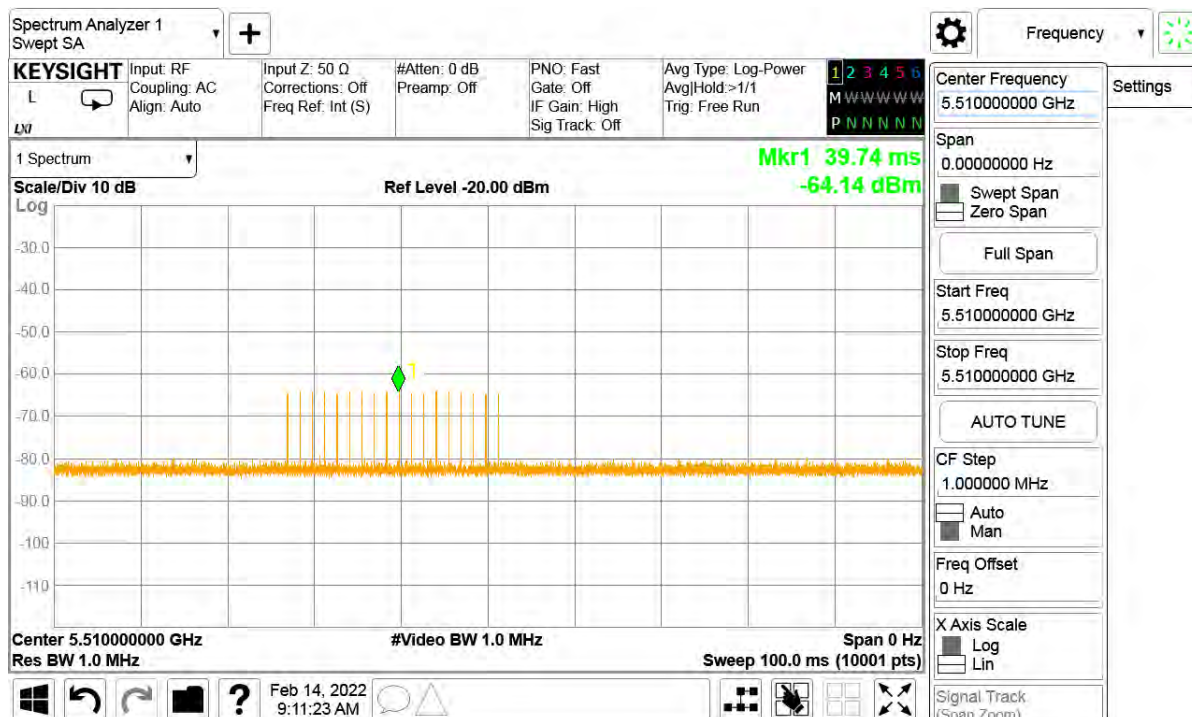
## Radar Type 1

## Calibration Plot - 802.11ac (40 MHz), 5310 MHz



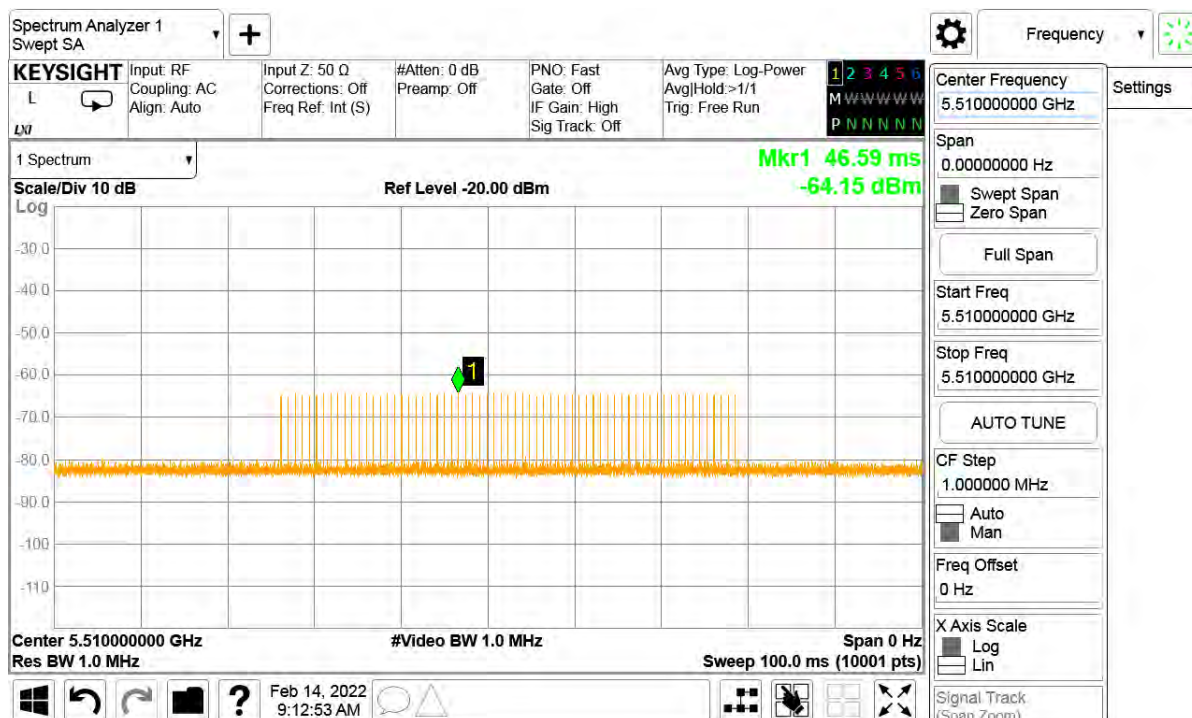
## Radar Type 0

## Calibration Plot - 802.11ac (40 MHz), 5510 MHz



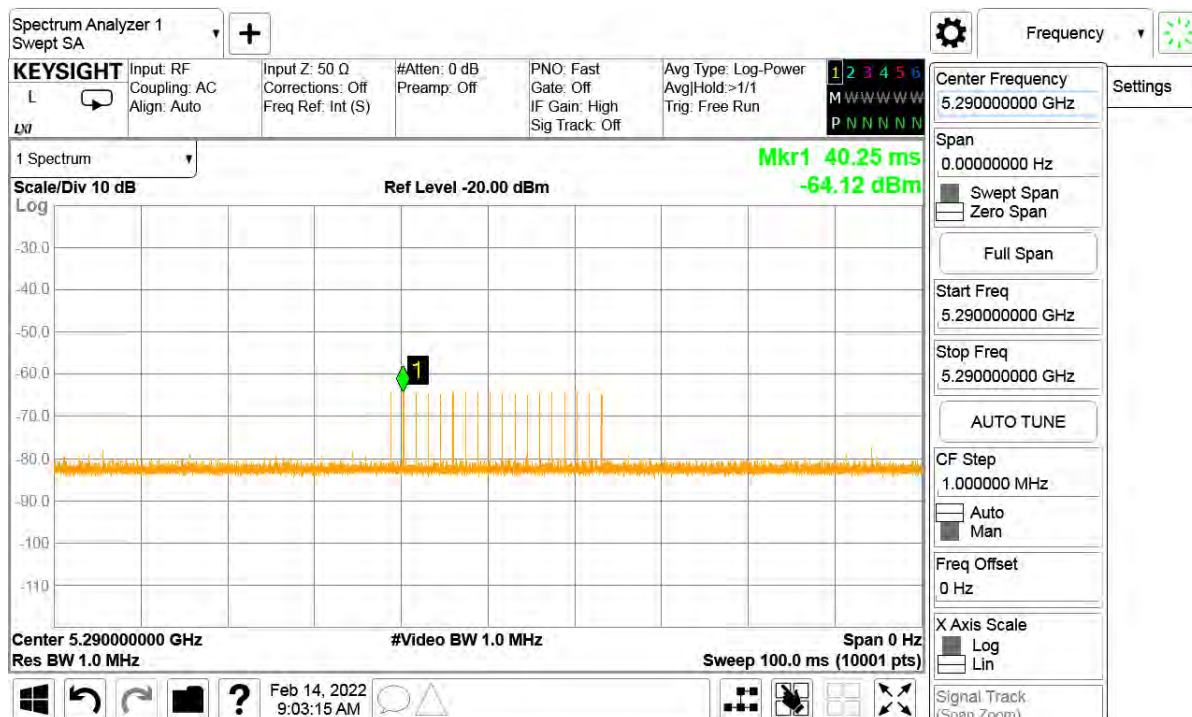
## Radar Type 1

## Calibration Plot - 802.11ac (40 MHz), 5510 MHz



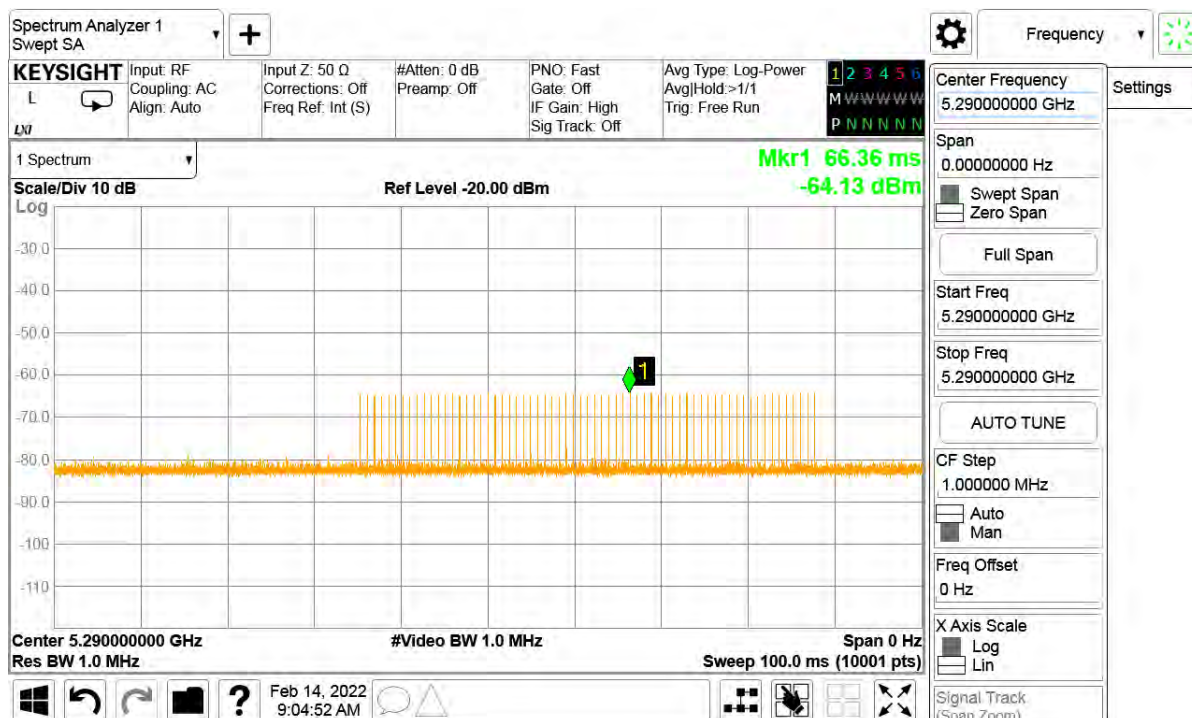
## Radar Type 0

## Calibration Plot - 802.11ac (80 MHz), 5290 MHz



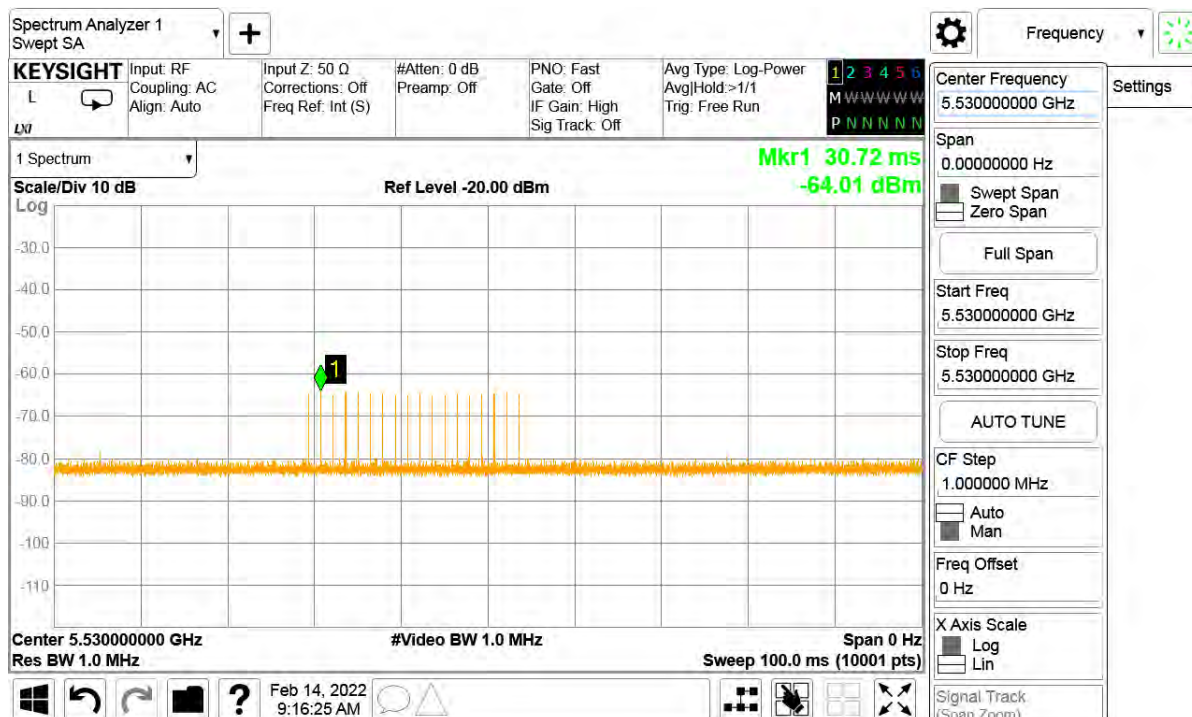
## Radar Type 1

## Calibration Plot - 802.11ac (80 MHz), 5290 MHz



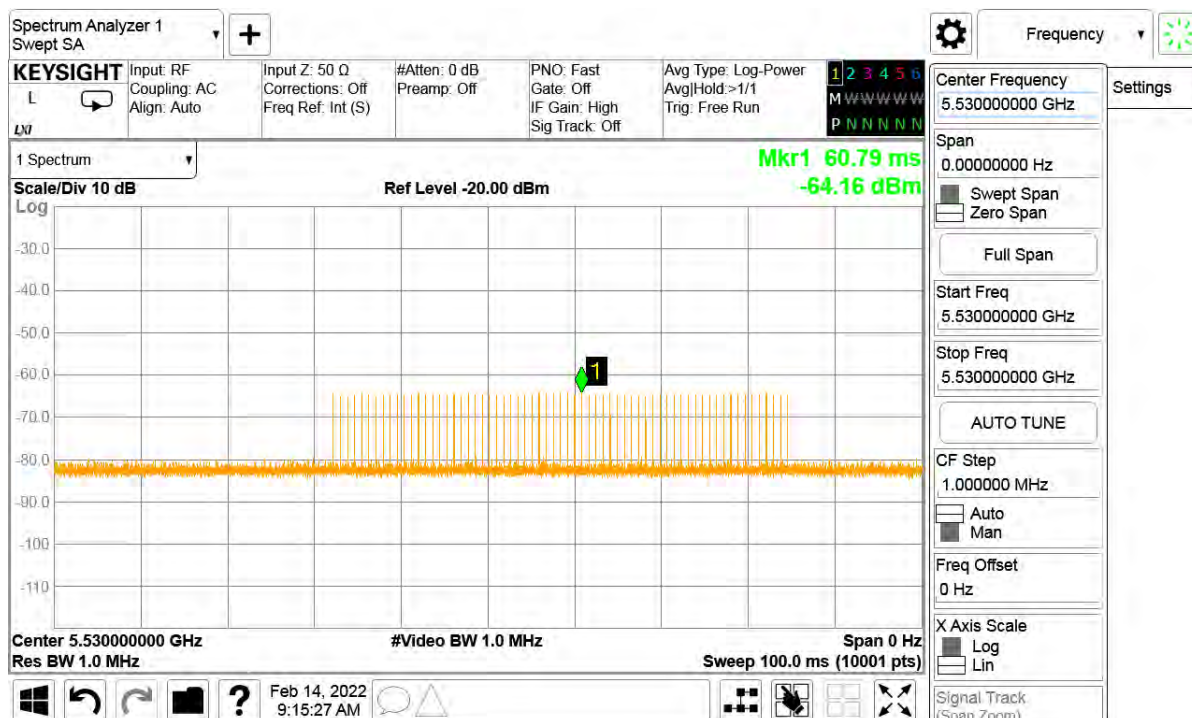
## Radar Type 0

## Calibration Plot - 802.11ac (80 MHz), 5530 MHz



## Radar Type 1

## Calibration Plot - 802.11ac (80 MHz), 5530 MHz



## 1.12. Master Data Traffic Plot Result

Plot of WLAN Traffic - 802.11ac (20 MHz), 5300 MHz



| Channel loading | Requirement loading |
|-----------------|---------------------|
| 21.72%          | >17%                |

Plot of WLAN Traffic - 802.11ac (20 MHz), 5500 MHz



| Channel loading | Requirement loading |
|-----------------|---------------------|
| 23.77%          | >17%                |

## Plot of WLAN Traffic - 802.11ac (40 MHz), 5310 MHz



## Channel loading

18.30%

## Requirement loading

&gt;17%

## Plot of WLAN Traffic - 802.11ac (40 MHz), 5510 MHz



## Channel loading

18.42%

## Requirement loading

&gt;17%

## Plot of WLAN Traffic - 802.11ac (80 MHz), 5290 MHz



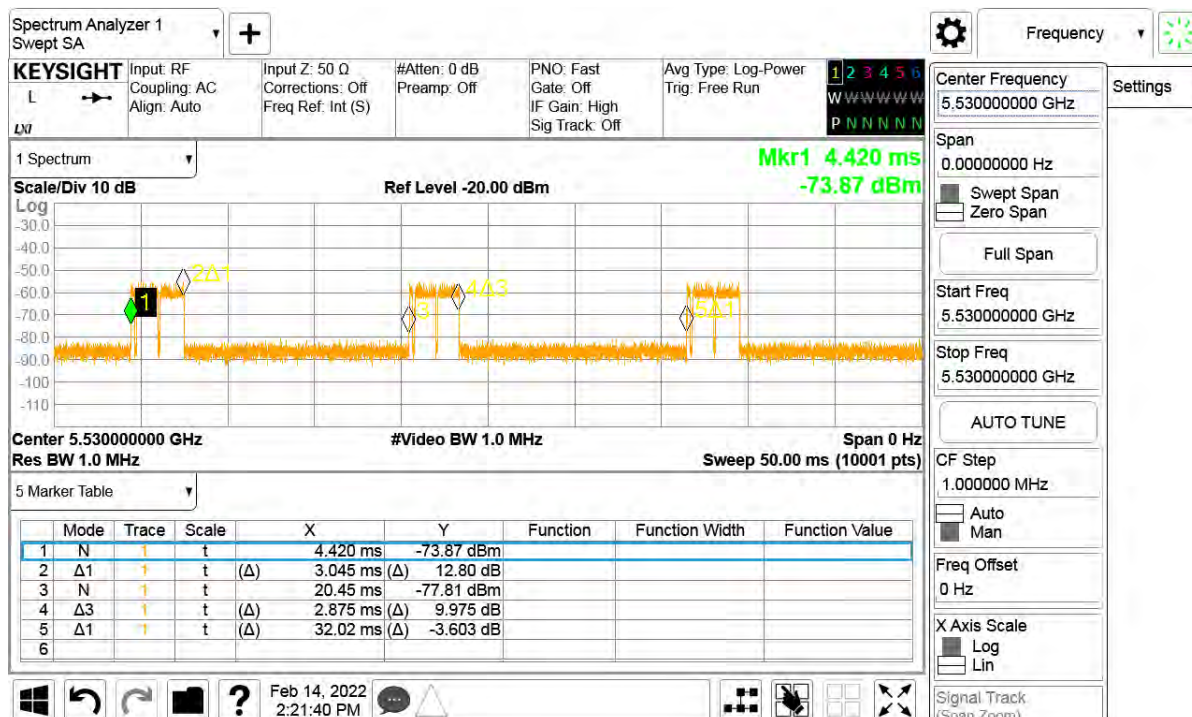
## Channel loading

18.73%

## Requirement loading

&gt;17%

## Plot of WLAN Traffic - 802.11ac (80 MHz), 5530 MHz



## Channel loading

18.49%

## Requirement loading

&gt;17%

## 2. In-Service Monitoring for Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period

### 2.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D02 for compliance to FCC 47CFR 15.407 requirements.

These tests define how the following DFS parameters are verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period. The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63 dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5300 MHz/ 5510 MHz and 5630 MHz.

Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at -63 dBm. Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time results to the limit defined in the DFS Response requirement values table.

Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.

### 2.2. Test Requirement

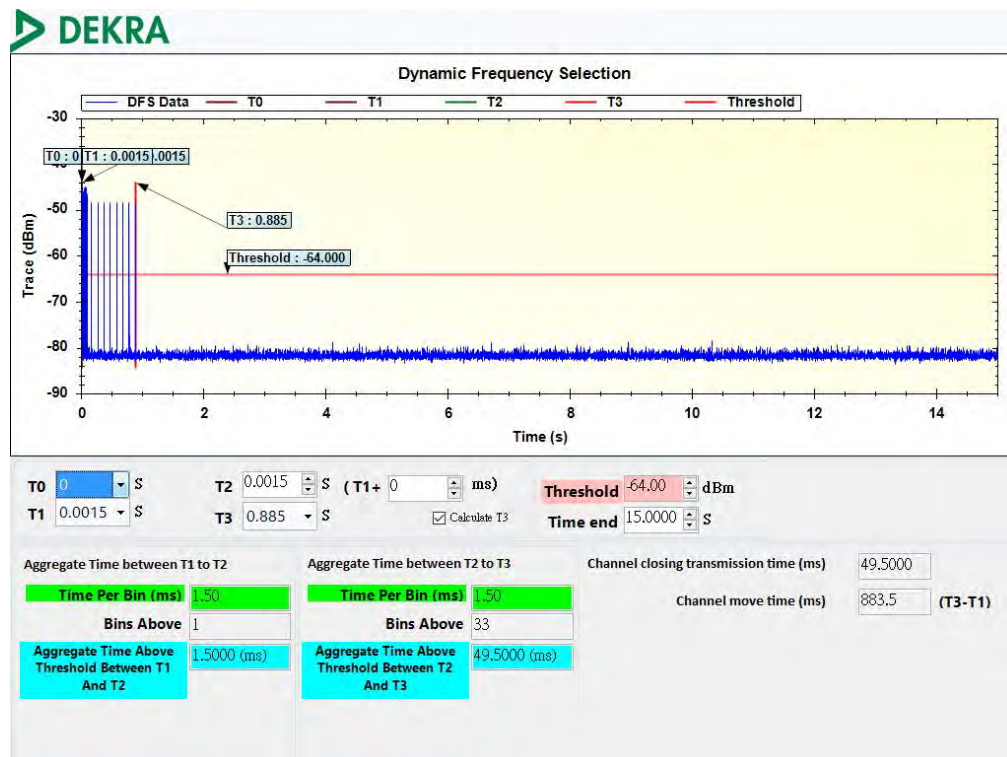
| Parameter                         | Value                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------|
| Channel Move Time                 | 10 Seconds                                                                  |
| Channel Closing Transmission Time | 200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period |
| Non-Occupancy Period              | Minimum 30 minutes                                                          |

### 2.3. Uncertainty

± 1 ms.

## 2.4. Test Result of Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period

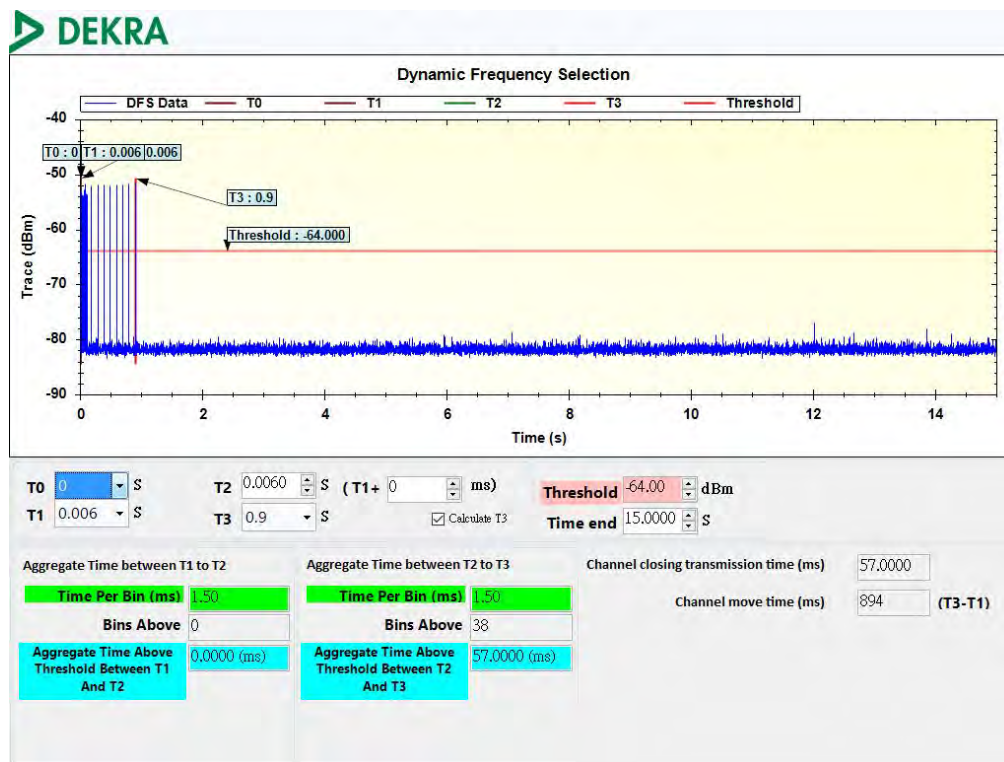
Channel Move Time and Channel Closing Transmission Time - 802.11ac (20 MHz), 5300 MHz



| Test Item                    | Test Result (Sec) | Limit (Sec)                                                                 |
|------------------------------|-------------------|-----------------------------------------------------------------------------|
| Channel Closing Transmission | 0.049             | 200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period |
| Channel Move Time            | 0.883             | 10                                                                          |

The results showed that after radar signal injected the channel move time was less than 10 seconds and channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

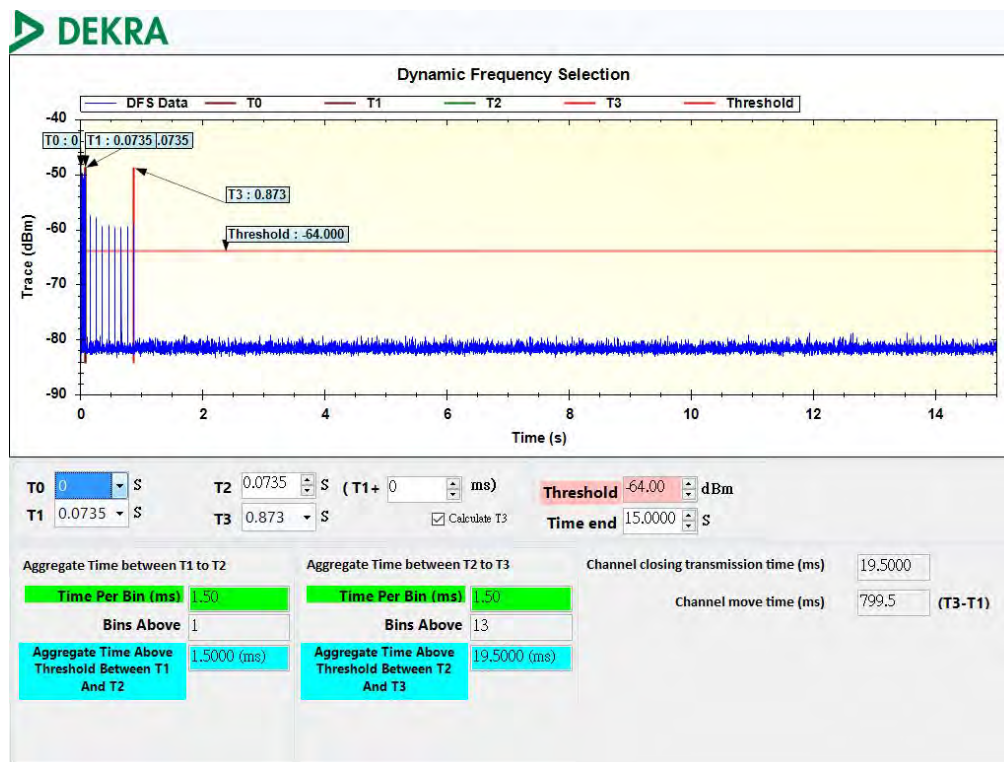
### Channel Move Time and Channel Closing Transmission Time - 802.11ac (20 MHz), 5500 MHz



| Test Item                    | Test Result (Sec) | Limit (Sec)                                                                 |
|------------------------------|-------------------|-----------------------------------------------------------------------------|
| Channel Closing Transmission | 0.057             | 200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period |
| Channel Move Time            | 0.894             | 10                                                                          |

The results showed that after radar signal injected the channel move time was less than 10 seconds and channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

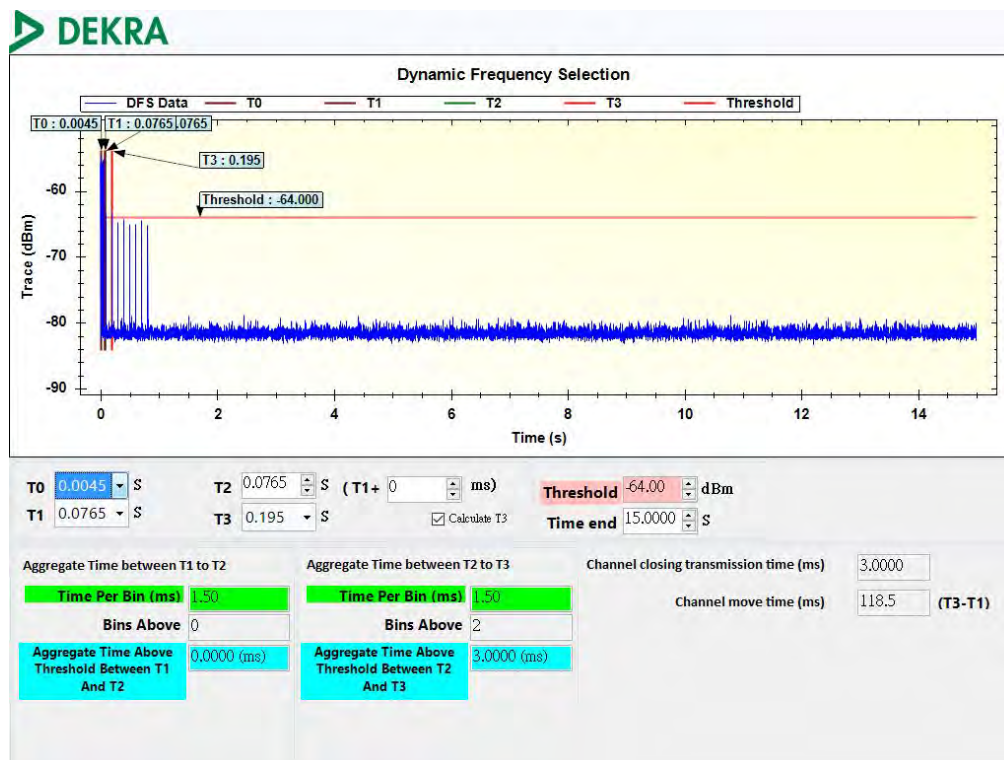
### Channel Move Time and Channel Closing Transmission Time - 802.11ac (80 MHz), 5290 MHz



| Test Item                    | Test Result (Sec) | Limit (Sec)                                                                 |
|------------------------------|-------------------|-----------------------------------------------------------------------------|
| Channel Closing Transmission | 0.019             | 200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period |
| Channel Move Time            | 0.799             | 10                                                                          |

The results showed that after radar signal injected the channel move time was less than 10 seconds and channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

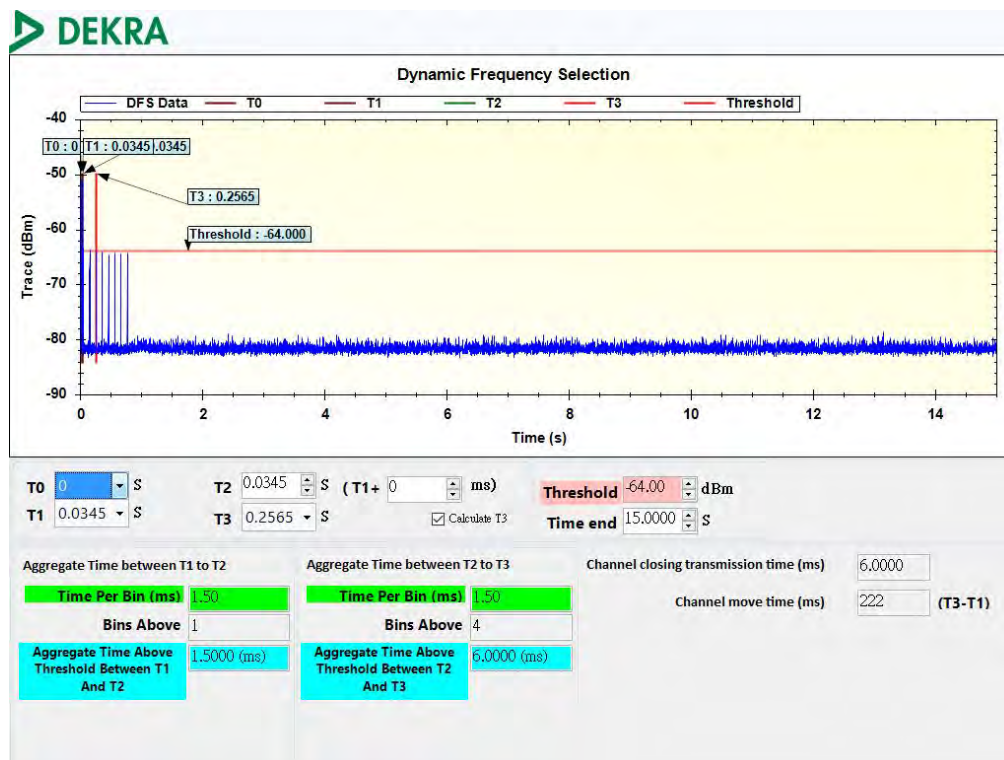
### Channel Move Time and Channel Closing Transmission Time - 802.11ac (80 MHz), 5530 MHz



| Test Item                    | Test Result (Sec) | Limit (Sec)                                                                 |
|------------------------------|-------------------|-----------------------------------------------------------------------------|
| Channel Closing Transmission | 0.003             | 200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period |
| Channel Move Time            | 0.118             | 10                                                                          |

The results showed that after radar signal injected the channel move time was less than 10 seconds and channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

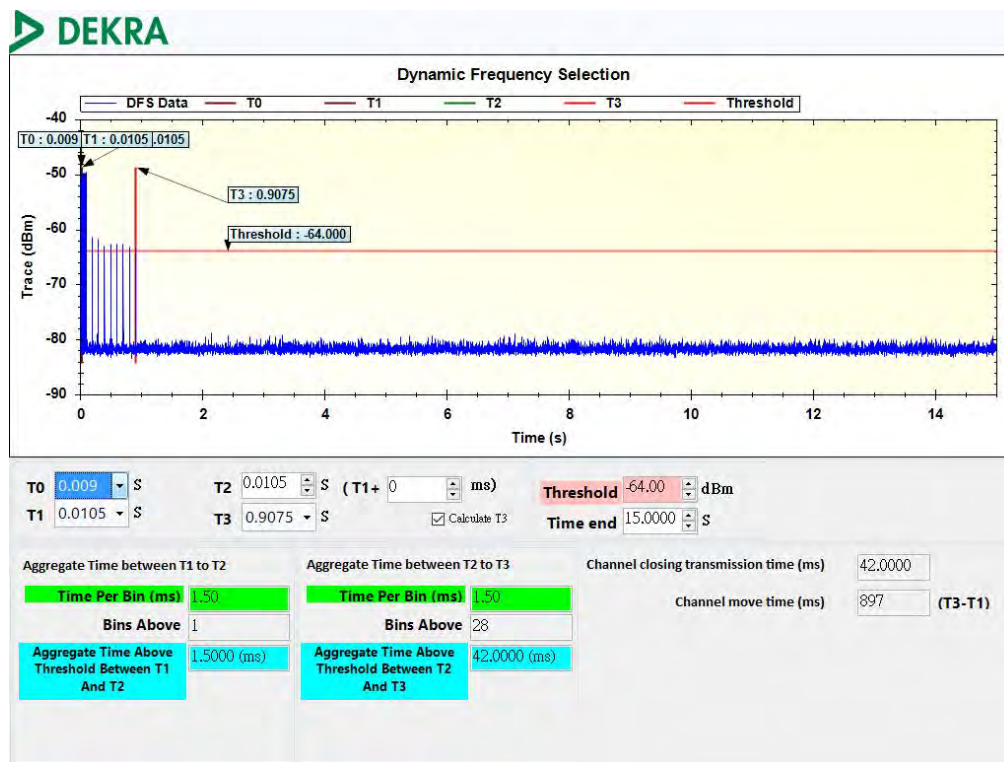
### Channel Move Time and Channel Closing Transmission Time - 802.11ac (40 MHz), 5310 MHz



| Test Item                    | Test Result (Sec) | Limit (Sec)                                                                 |
|------------------------------|-------------------|-----------------------------------------------------------------------------|
| Channel Closing Transmission | 0.006             | 200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period |
| Channel Move Time            | 0.222             | 10                                                                          |

The results showed that after radar signal injected the channel move time was less than 10 seconds and channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

### Channel Move Time and Channel Closing Transmission Time - 802.11ac (40 MHz), 5510 MHz



| Test Item                    | Test Result (Sec) | Limit (Sec)                                                                 |
|------------------------------|-------------------|-----------------------------------------------------------------------------|
| Channel Closing Transmission | 0.042             | 200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period |
| Channel Move Time            | 0.897             | 10                                                                          |

The results showed that after radar signal injected the channel move time was less than 10 seconds and channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.

## Non-Occupancy Period - 802.11ac (20 MHz), 5300 MHz



| Test Item            | Test Result<br>(Minutes) | Limit<br>(Minutes) |
|----------------------|--------------------------|--------------------|
| Non-Occupancy Period | >30                      | >30                |

\*No EUT transmissions were observed on the test channel during 30 minutes observation time.

## Non-Occupancy Period - 802.11ac (20 MHz), 5500 MHz



| Test Item            | Test Result (Minutes) | Limit (Minutes) |
|----------------------|-----------------------|-----------------|
| Non-Occupancy Period | >30                   | >30             |

\*No EUT transmissions were observed on the test channel during 30 minutes observation time.

## Non-Occupancy Period - 802.11ac (40 MHz), 5310 MHz



| Test Item            | Test Result (Minutes) | Limit (Minutes) |
|----------------------|-----------------------|-----------------|
| Non-Occupancy Period | >30                   | >30             |

\*No EUT transmissions were observed on the test channel during 30 minutes observation time.

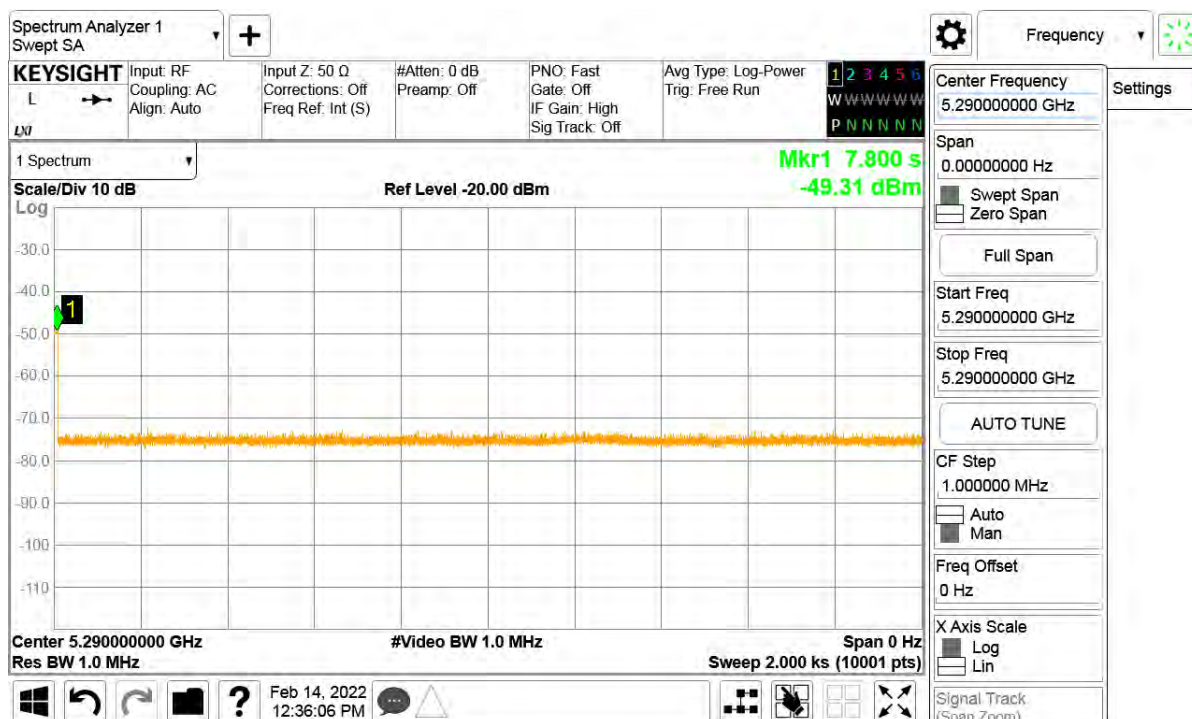
## Non-Occupancy Period - 802.11ac (40 MHz), 5510 MHz



| Test Item            | Test Result<br>(Minutes) | Limit<br>(Minutes) |
|----------------------|--------------------------|--------------------|
| Non-Occupancy Period | >30                      | >30                |

\*No EUT transmissions were observed on the test channel during 30 minutes observation time.

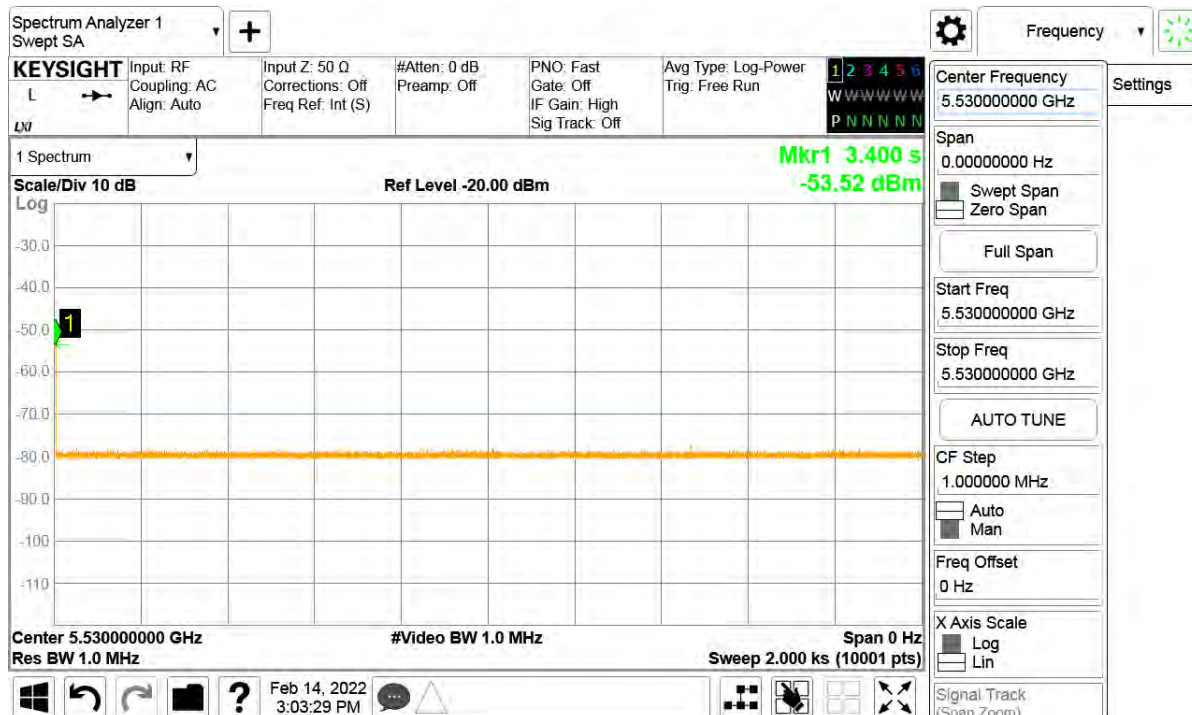
## Non-Occupancy Period - 802.11ac (80 MHz), 5290 MHz



| Test Item            | Test Result<br>(Minutes) | Limit<br>(Minutes) |
|----------------------|--------------------------|--------------------|
| Non-Occupancy Period | >30                      | >30                |

\*No EUT transmissions were observed on the test channel during 30 minutes observation time.

## Non-Occupancy Period - 802.11ac (80 MHz), 5530 MHz



| Test Item            | Test Result<br>(Minutes) | Limit<br>(Minutes) |
|----------------------|--------------------------|--------------------|
| Non-Occupancy Period | >30                      | >30                |

\*No EUT transmissions were observed on the test channel during 30 minutes observation time.

### 3. Statistical Performance Check

#### 3.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB905462 D02 for compliance to FCC 47CFR 15.407 requirements.

The steps below define the procedure to determine the minimum percentage of detection when a radar burst with a level equal to the DFS Detection Threshold + 1dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5300 MHz ~ 5510 MHz and 5630 MHz.

Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

The Radar Waveform generator sends the individual waveform for each of the radar types 1-6 at -63 dBm.

Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

#### 3.2. Test Requirement

The 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.

##### Minimum percentage of successful detections

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

The percentage of successful detection is calculated by:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

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

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4}$$

### 3.3. Test Result of Statistical Performance Check

#### 802.11ac (20 MHz), 5300 MHz

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 1     | 1                | 658      | 81               | 53298                |
| 1        | Type 1     | 1                | 798      | 67               | 53466                |
| 2        | Type 1     | 1                | 738      | 72               | 53136                |
| 3        | Type 1     | 1                | 938      | 57               | 53466                |
| 4        | Type 1     | 1                | 558      | 95               | 53010                |
| 5        | Type 1     | 1                | 518      | 102              | 52836                |
| 6        | Type 1     | 1                | 3066     | 18               | 55188                |
| 7        | Type 1     | 1                | 878      | 61               | 53558                |
| 8        | Type 1     | 1                | 718      | 74               | 53132                |
| 9        | Type 1     | 1                | 678      | 78               | 52884                |
| 10       | Type 1     | 1                | 918      | 58               | 53244                |
| 11       | Type 1     | 1                | 898      | 59               | 52982                |
| 12       | Type 1     | 1                | 638      | 83               | 52954                |
| 13       | Type 1     | 1                | 618      | 86               | 53148                |
| 14       | Type 1     | 1                | 598      | 89               | 53222                |
| 15       | Type 1     | 1                | 1182     | 45               | 53190                |
| 16       | Type 1     | 1                | 909      | 59               | 53631                |
| 17       | Type 1     | 1                | 530      | 100              | 53000                |
| 18       | Type 1     | 1                | 1946     | 28               | 54488                |
| 19       | Type 1     | 1                | 2259     | 24               | 54216                |
| 20       | Type 1     | 1                | 2009     | 27               | 54243                |
| 21       | Type 1     | 1                | 865      | 62               | 53630                |
| 22       | Type 1     | 1                | 2218     | 24               | 53232                |
| 23       | Type 1     | 1                | 1480     | 36               | 53280                |
| 24       | Type 1     | 1                | 2523     | 21               | 52983                |
| 25       | Type 1     | 1                | 2876     | 19               | 54644                |
| 26       | Type 1     | 1                | 2496     | 22               | 54912                |
| 27       | Type 1     | 1                | 3046     | 18               | 54828                |
| 28       | Type 1     | 1                | 2057     | 26               | 53482                |
| 29       | Type 1     | 1                | 2719     | 20               | 54380                |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 2     | 4.8              | 218      | 29               | 6322                 |
| 1        | Type 2     | 2.1              | 206      | 24               | 4944                 |
| 2        | Type 2     | 1.9              | 201      | 24               | 4824                 |
| 3        | Type 2     | 3.4              | 226      | 27               | 6102                 |
| 4        | Type 2     | 4.1              | 192      | 28               | 5376                 |
| 5        | Type 2     | 4.4              | 221      | 28               | 6188                 |
| 6        | Type 2     | 4.1              | 172      | 28               | 4816                 |
| 7        | Type 2     | 3.5              | 150      | 27               | 4050                 |
| 8        | Type 2     | 3.6              | 186      | 27               | 5022                 |
| 9        | Type 2     | 4.7              | 154      | 29               | 4466                 |
| 10       | Type 2     | 1.3              | 194      | 23               | 4462                 |
| 11       | Type 2     | 1                | 166      | 23               | 3818                 |
| 12       | Type 2     | 3.6              | 212      | 27               | 5724                 |
| 13       | Type 2     | 3                | 228      | 26               | 5928                 |
| 14       | Type 2     | 4                | 211      | 28               | 5908                 |
| 15       | Type 2     | 4.7              | 151      | 29               | 4379                 |
| 16       | Type 2     | 1.1              | 179      | 23               | 4117                 |
| 17       | Type 2     | 2.7              | 175      | 25               | 4375                 |
| 18       | Type 2     | 1.5              | 165      | 24               | 3960                 |
| 19       | Type 2     | 1.6              | 167      | 24               | 4008                 |
| 20       | Type 2     | 4.8              | 173      | 29               | 5017                 |
| 21       | Type 2     | 3.7              | 189      | 27               | 5103                 |
| 22       | Type 2     | 5                | 185      | 29               | 5365                 |
| 23       | Type 2     | 4.7              | 215      | 29               | 6235                 |
| 24       | Type 2     | 3.8              | 159      | 27               | 4293                 |
| 25       | Type 2     | 2.3              | 170      | 25               | 4250                 |
| 26       | Type 2     | 4.8              | 168      | 29               | 4872                 |
| 27       | Type 2     | 1.9              | 213      | 24               | 5112                 |
| 28       | Type 2     | 1.3              | 190      | 23               | 4370                 |
| 29       | Type 2     | 1.5              | 205      | 23               | 4715                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 3     | 9.8              | 265      | 18               | 4770                 |
| 1        | Type 3     | 7.1              | 240      | 16               | 3840                 |
| 2        | Type 3     | 6.9              | 299      | 16               | 4784                 |
| 3        | Type 3     | 8.4              | 262      | 17               | 4454                 |
| 4        | Type 3     | 9.1              | 446      | 18               | 8028                 |
| 5        | Type 3     | 9.4              | 223      | 18               | 4014                 |
| 6        | Type 3     | 9.1              | 224      | 18               | 4032                 |
| 7        | Type 3     | 8.5              | 493      | 17               | 8381                 |
| 8        | Type 3     | 8.6              | 443      | 17               | 7531                 |
| 9        | Type 3     | 9.7              | 403      | 18               | 7254                 |
| 10       | Type 3     | 6.3              | 471      | 16               | 7536                 |
| 11       | Type 3     | 6                | 248      | 16               | 3968                 |
| 12       | Type 3     | 8.6              | 454      | 17               | 7718                 |
| 13       | Type 3     | 8                | 227      | 17               | 3859                 |
| 14       | Type 3     | 9                | 448      | 18               | 8064                 |
| 15       | Type 3     | 9.7              | 300      | 18               | 5400                 |
| 16       | Type 3     | 6.1              | 400      | 16               | 6400                 |
| 17       | Type 3     | 7.7              | 467      | 17               | 7939                 |
| 18       | Type 3     | 6.5              | 222      | 16               | 3552                 |
| 19       | Type 3     | 6.6              | 252      | 16               | 4032                 |
| 20       | Type 3     | 9.8              | 412      | 18               | 7416                 |
| 21       | Type 3     | 8.7              | 294      | 18               | 5292                 |
| 22       | Type 3     | 10               | 413      | 18               | 7434                 |
| 23       | Type 3     | 9.7              | 386      | 18               | 6948                 |
| 24       | Type 3     | 8.8              | 317      | 18               | 5706                 |
| 25       | Type 3     | 7.3              | 472      | 17               | 8024                 |
| 26       | Type 3     | 9.8              | 258      | 18               | 4644                 |
| 27       | Type 3     | 6.9              | 250      | 16               | 4000                 |
| 28       | Type 3     | 6.3              | 447      | 16               | 7152                 |
| 29       | Type 3     | 6.5              | 314      | 16               | 5024                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 4     | 19.4             | 265      | 16               | 4240                 |
| 1        | Type 4     | 13.4             | 240      | 13               | 3120                 |
| 2        | Type 4     | 13.1             | 299      | 13               | 3887                 |
| 3        | Type 4     | 16.4             | 262      | 15               | 3930                 |
| 4        | Type 4     | 18               | 446      | 15               | 6690                 |
| 5        | Type 4     | 18.5             | 223      | 16               | 3568                 |
| 6        | Type 4     | 17.9             | 224      | 15               | 3360                 |
| 7        | Type 4     | 16.5             | 493      | 15               | 7395                 |
| 8        | Type 4     | 16.8             | 443      | 15               | 6645                 |
| 9        | Type 4     | 19.2             | 403      | 16               | 6448                 |
| 10       | Type 4     | 11.7             | 471      | 12               | 5652                 |
| 11       | Type 4     | 11.1             | 248      | 12               | 2976                 |
| 12       | Type 4     | 16.9             | 454      | 15               | 6810                 |
| 13       | Type 4     | 15.4             | 227      | 14               | 3178                 |
| 14       | Type 4     | 17.7             | 448      | 15               | 6720                 |
| 15       | Type 4     | 19.3             | 300      | 16               | 4800                 |
| 16       | Type 4     | 11.3             | 400      | 12               | 4800                 |
| 17       | Type 4     | 14.8             | 467      | 14               | 6538                 |
| 18       | Type 4     | 12.3             | 222      | 12               | 2664                 |
| 19       | Type 4     | 12.3             | 252      | 12               | 3024                 |
| 20       | Type 4     | 19.4             | 412      | 16               | 6592                 |
| 21       | Type 4     | 17               | 294      | 15               | 4410                 |
| 22       | Type 4     | 19.9             | 413      | 16               | 6608                 |
| 23       | Type 4     | 19.2             | 386      | 16               | 6176                 |
| 24       | Type 4     | 17.4             | 317      | 15               | 4755                 |
| 25       | Type 4     | 14               | 472      | 13               | 6136                 |
| 26       | Type 4     | 19.4             | 258      | 16               | 4128                 |
| 27       | Type 4     | 13.2             | 250      | 13               | 3250                 |
| 28       | Type 4     | 11.7             | 447      | 12               | 5364                 |
| 29       | Type 4     | 12.2             | 314      | 12               | 3768                 |

| Trial Id | Radar Type | Number of Bursts | Burst Period(s) | Waveform Length(s) | Center Frequency (GHz) |
|----------|------------|------------------|-----------------|--------------------|------------------------|
| 0        | Type 5     | 20               | 0.6             | 12                 | 5.3                    |
| 1        | Type 5     | 11               | 1.090909        | 12                 | 5.3                    |
| 2        | Type 5     | 11               | 1.090909        | 12                 | 5.3                    |
| 3        | Type 5     | 15               | 0.8             | 12                 | 5.3                    |
| 4        | Type 5     | 18               | 0.666667        | 12                 | 5.3                    |
| 5        | Type 5     | 18               | 0.666667        | 12                 | 5.3                    |
| 6        | Type 5     | 17               | 0.705882        | 12                 | 5.3                    |
| 7        | Type 5     | 15               | 0.8             | 12                 | 5.3                    |
| 8        | Type 5     | 16               | 0.75            | 12                 | 5.3                    |
| 9        | Type 5     | 19               | 0.631579        | 12                 | 5.3                    |
| 10       | Type 5     | 9                | 1.333333        | 12                 | 5.292                  |
| 11       | Type 5     | 8                | 1.5             | 12                 | 5.292                  |
| 12       | Type 5     | 16               | 0.75            | 12                 | 5.296                  |
| 13       | Type 5     | 14               | 0.857143        | 12                 | 5.295                  |
| 14       | Type 5     | 17               | 0.705882        | 12                 | 5.296                  |
| 15       | Type 5     | 19               | 0.631579        | 12                 | 5.298                  |
| 16       | Type 5     | 8                | 1.5             | 12                 | 5.292                  |
| 17       | Type 5     | 13               | 0.923077        | 12                 | 5.294                  |
| 18       | Type 5     | 9                | 1.333333        | 12                 | 5.293                  |
| 19       | Type 5     | 9                | 1.333333        | 12                 | 5.293                  |
| 20       | Type 5     | 20               | 0.6             | 12                 | 5.302                  |
| 21       | Type 5     | 16               | 0.75            | 12                 | 5.304                  |
| 22       | Type 5     | 20               | 0.6             | 12                 | 5.302                  |
| 23       | Type 5     | 19               | 0.631579        | 12                 | 5.302                  |
| 24       | Type 5     | 17               | 0.705882        | 12                 | 5.304                  |
| 25       | Type 5     | 12               | 1               | 12                 | 5.306                  |
| 26       | Type 5     | 20               | 0.6             | 12                 | 5.302                  |
| 27       | Type 5     | 11               | 1.090909        | 12                 | 5.307                  |
| 28       | Type 5     | 9                | 1.333333        | 12                 | 5.308                  |
| 29       | Type 5     | 9                | 1.333333        | 12                 | 5.307                  |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Pulses per Hop | Hopping Rate (KHz) | Hopping Sequence Length (ms) | Visible Frequency Number |
|----------|------------|------------------|----------|----------------|--------------------|------------------------------|--------------------------|
| 0        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 1        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 2        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 3        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 4        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 1                        |
| 5        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 6        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 7        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 8        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 9        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 10       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 11       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 12       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 13       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |
| 14       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 15       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 16       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 17       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 18       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 19       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 20       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 21       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 22       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |
| 23       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 24       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 25       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |
| 26       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 27       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 28       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 29       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |

**802.11ac (20 MHz), 5500 MHz**

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 1     | 1                | 658      | 81               | 53298                |
| 1        | Type 1     | 1                | 798      | 67               | 53466                |
| 2        | Type 1     | 1                | 738      | 72               | 53136                |
| 3        | Type 1     | 1                | 938      | 57               | 53466                |
| 4        | Type 1     | 1                | 558      | 95               | 53010                |
| 5        | Type 1     | 1                | 518      | 102              | 52836                |
| 6        | Type 1     | 1                | 3066     | 18               | 55188                |
| 7        | Type 1     | 1                | 878      | 61               | 53558                |
| 8        | Type 1     | 1                | 718      | 74               | 53132                |
| 9        | Type 1     | 1                | 678      | 78               | 52884                |
| 10       | Type 1     | 1                | 918      | 58               | 53244                |
| 11       | Type 1     | 1                | 898      | 59               | 52982                |
| 12       | Type 1     | 1                | 638      | 83               | 52954                |
| 13       | Type 1     | 1                | 618      | 86               | 53148                |
| 14       | Type 1     | 1                | 598      | 89               | 53222                |
| 15       | Type 1     | 1                | 1182     | 45               | 53190                |
| 16       | Type 1     | 1                | 909      | 59               | 53631                |
| 17       | Type 1     | 1                | 530      | 100              | 53000                |
| 18       | Type 1     | 1                | 1946     | 28               | 54488                |
| 19       | Type 1     | 1                | 2259     | 24               | 54216                |
| 20       | Type 1     | 1                | 2009     | 27               | 54243                |
| 21       | Type 1     | 1                | 865      | 62               | 53630                |
| 22       | Type 1     | 1                | 2218     | 24               | 53232                |
| 23       | Type 1     | 1                | 1480     | 36               | 53280                |
| 24       | Type 1     | 1                | 2523     | 21               | 52983                |
| 25       | Type 1     | 1                | 2876     | 19               | 54644                |
| 26       | Type 1     | 1                | 2496     | 22               | 54912                |
| 27       | Type 1     | 1                | 3046     | 18               | 54828                |
| 28       | Type 1     | 1                | 2057     | 26               | 53482                |
| 29       | Type 1     | 1                | 2719     | 20               | 54380                |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 2     | 4.8              | 218      | 29               | 6322                 |
| 1        | Type 2     | 2.1              | 206      | 24               | 4944                 |
| 2        | Type 2     | 1.9              | 201      | 24               | 4824                 |
| 3        | Type 2     | 3.4              | 226      | 27               | 6102                 |
| 4        | Type 2     | 4.1              | 192      | 28               | 5376                 |
| 5        | Type 2     | 4.4              | 221      | 28               | 6188                 |
| 6        | Type 2     | 4.1              | 172      | 28               | 4816                 |
| 7        | Type 2     | 3.5              | 150      | 27               | 4050                 |
| 8        | Type 2     | 3.6              | 186      | 27               | 5022                 |
| 9        | Type 2     | 4.7              | 154      | 29               | 4466                 |
| 10       | Type 2     | 1.3              | 194      | 23               | 4462                 |
| 11       | Type 2     | 1                | 166      | 23               | 3818                 |
| 12       | Type 2     | 3.6              | 212      | 27               | 5724                 |
| 13       | Type 2     | 3                | 228      | 26               | 5928                 |
| 14       | Type 2     | 4                | 211      | 28               | 5908                 |
| 15       | Type 2     | 4.7              | 151      | 29               | 4379                 |
| 16       | Type 2     | 1.1              | 179      | 23               | 4117                 |
| 17       | Type 2     | 2.7              | 175      | 25               | 4375                 |
| 18       | Type 2     | 1.5              | 165      | 24               | 3960                 |
| 19       | Type 2     | 1.6              | 167      | 24               | 4008                 |
| 20       | Type 2     | 4.8              | 173      | 29               | 5017                 |
| 21       | Type 2     | 3.7              | 189      | 27               | 5103                 |
| 22       | Type 2     | 5                | 185      | 29               | 5365                 |
| 23       | Type 2     | 4.7              | 215      | 29               | 6235                 |
| 24       | Type 2     | 3.8              | 159      | 27               | 4293                 |
| 25       | Type 2     | 2.3              | 170      | 25               | 4250                 |
| 26       | Type 2     | 4.8              | 168      | 29               | 4872                 |
| 27       | Type 2     | 1.9              | 213      | 24               | 5112                 |
| 28       | Type 2     | 1.3              | 190      | 23               | 4370                 |
| 29       | Type 2     | 1.5              | 205      | 23               | 4715                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 3     | 9.8              | 265      | 18               | 4770                 |
| 1        | Type 3     | 7.1              | 240      | 16               | 3840                 |
| 2        | Type 3     | 6.9              | 299      | 16               | 4784                 |
| 3        | Type 3     | 8.4              | 262      | 17               | 4454                 |
| 4        | Type 3     | 9.1              | 446      | 18               | 8028                 |
| 5        | Type 3     | 9.4              | 223      | 18               | 4014                 |
| 6        | Type 3     | 9.1              | 224      | 18               | 4032                 |
| 7        | Type 3     | 8.5              | 493      | 17               | 8381                 |
| 8        | Type 3     | 8.6              | 443      | 17               | 7531                 |
| 9        | Type 3     | 9.7              | 403      | 18               | 7254                 |
| 10       | Type 3     | 6.3              | 471      | 16               | 7536                 |
| 11       | Type 3     | 6                | 248      | 16               | 3968                 |
| 12       | Type 3     | 8.6              | 454      | 17               | 7718                 |
| 13       | Type 3     | 8                | 227      | 17               | 3859                 |
| 14       | Type 3     | 9                | 448      | 18               | 8064                 |
| 15       | Type 3     | 9.7              | 300      | 18               | 5400                 |
| 16       | Type 3     | 6.1              | 400      | 16               | 6400                 |
| 17       | Type 3     | 7.7              | 467      | 17               | 7939                 |
| 18       | Type 3     | 6.5              | 222      | 16               | 3552                 |
| 19       | Type 3     | 6.6              | 252      | 16               | 4032                 |
| 20       | Type 3     | 9.8              | 412      | 18               | 7416                 |
| 21       | Type 3     | 8.7              | 294      | 18               | 5292                 |
| 22       | Type 3     | 10               | 413      | 18               | 7434                 |
| 23       | Type 3     | 9.7              | 386      | 18               | 6948                 |
| 24       | Type 3     | 8.8              | 317      | 18               | 5706                 |
| 25       | Type 3     | 7.3              | 472      | 17               | 8024                 |
| 26       | Type 3     | 9.8              | 258      | 18               | 4644                 |
| 27       | Type 3     | 6.9              | 250      | 16               | 4000                 |
| 28       | Type 3     | 6.3              | 447      | 16               | 7152                 |
| 29       | Type 3     | 6.5              | 314      | 16               | 5024                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 4     | 19.4             | 265      | 16               | 4240                 |
| 1        | Type 4     | 13.4             | 240      | 13               | 3120                 |
| 2        | Type 4     | 13.1             | 299      | 13               | 3887                 |
| 3        | Type 4     | 16.4             | 262      | 15               | 3930                 |
| 4        | Type 4     | 18               | 446      | 15               | 6690                 |
| 5        | Type 4     | 18.5             | 223      | 16               | 3568                 |
| 6        | Type 4     | 17.9             | 224      | 15               | 3360                 |
| 7        | Type 4     | 16.5             | 493      | 15               | 7395                 |
| 8        | Type 4     | 16.8             | 443      | 15               | 6645                 |
| 9        | Type 4     | 19.2             | 403      | 16               | 6448                 |
| 10       | Type 4     | 11.7             | 471      | 12               | 5652                 |
| 11       | Type 4     | 11.1             | 248      | 12               | 2976                 |
| 12       | Type 4     | 16.9             | 454      | 15               | 6810                 |
| 13       | Type 4     | 15.4             | 227      | 14               | 3178                 |
| 14       | Type 4     | 17.7             | 448      | 15               | 6720                 |
| 15       | Type 4     | 19.3             | 300      | 16               | 4800                 |
| 16       | Type 4     | 11.3             | 400      | 12               | 4800                 |
| 17       | Type 4     | 14.8             | 467      | 14               | 6538                 |
| 18       | Type 4     | 12.3             | 222      | 12               | 2664                 |
| 19       | Type 4     | 12.3             | 252      | 12               | 3024                 |
| 20       | Type 4     | 19.4             | 412      | 16               | 6592                 |
| 21       | Type 4     | 17               | 294      | 15               | 4410                 |
| 22       | Type 4     | 19.9             | 413      | 16               | 6608                 |
| 23       | Type 4     | 19.2             | 386      | 16               | 6176                 |
| 24       | Type 4     | 17.4             | 317      | 15               | 4755                 |
| 25       | Type 4     | 14               | 472      | 13               | 6136                 |
| 26       | Type 4     | 19.4             | 258      | 16               | 4128                 |
| 27       | Type 4     | 13.2             | 250      | 13               | 3250                 |
| 28       | Type 4     | 11.7             | 447      | 12               | 5364                 |
| 29       | Type 4     | 12.2             | 314      | 12               | 3768                 |

| Trial Id | Radar Type | Number of Bursts | Burst Period(s) | Waveform Length(s) | Center Frequency (GHz) |
|----------|------------|------------------|-----------------|--------------------|------------------------|
| 0        | Type 5     | 20               | 0.6             | 12                 | 5.5                    |
| 1        | Type 5     | 11               | 1.090909        | 12                 | 5.5                    |
| 2        | Type 5     | 11               | 1.090909        | 12                 | 5.5                    |
| 3        | Type 5     | 15               | 0.8             | 12                 | 5.5                    |
| 4        | Type 5     | 18               | 0.666667        | 12                 | 5.5                    |
| 5        | Type 5     | 18               | 0.666667        | 12                 | 5.5                    |
| 6        | Type 5     | 17               | 0.705882        | 12                 | 5.5                    |
| 7        | Type 5     | 15               | 0.8             | 12                 | 5.5                    |
| 8        | Type 5     | 16               | 0.75            | 12                 | 5.5                    |
| 9        | Type 5     | 19               | 0.631579        | 12                 | 5.5                    |
| 10       | Type 5     | 9                | 1.333333        | 12                 | 5.492                  |
| 11       | Type 5     | 8                | 1.5             | 12                 | 5.492                  |
| 12       | Type 5     | 16               | 0.75            | 12                 | 5.496                  |
| 13       | Type 5     | 14               | 0.857143        | 12                 | 5.495                  |
| 14       | Type 5     | 17               | 0.705882        | 12                 | 5.496                  |
| 15       | Type 5     | 19               | 0.631579        | 12                 | 5.498                  |
| 16       | Type 5     | 8                | 1.5             | 12                 | 5.492                  |
| 17       | Type 5     | 13               | 0.923077        | 12                 | 5.494                  |
| 18       | Type 5     | 9                | 1.333333        | 12                 | 5.493                  |
| 19       | Type 5     | 9                | 1.333333        | 12                 | 5.493                  |
| 20       | Type 5     | 20               | 0.6             | 12                 | 5.502                  |
| 21       | Type 5     | 16               | 0.75            | 12                 | 5.504                  |
| 22       | Type 5     | 20               | 0.6             | 12                 | 5.502                  |
| 23       | Type 5     | 19               | 0.631579        | 12                 | 5.502                  |
| 24       | Type 5     | 17               | 0.705882        | 12                 | 5.504                  |
| 25       | Type 5     | 12               | 1               | 12                 | 5.506                  |
| 26       | Type 5     | 20               | 0.6             | 12                 | 5.502                  |
| 27       | Type 5     | 11               | 1.090909        | 12                 | 5.507                  |
| 28       | Type 5     | 9                | 1.333333        | 12                 | 5.508                  |
| 29       | Type 5     | 9                | 1.333333        | 12                 | 5.507                  |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Pulses per Hop | Hopping Rate (KHz) | Hopping Sequence Length (ms) | Visible Frequency Number |
|----------|------------|------------------|----------|----------------|--------------------|------------------------------|--------------------------|
| 0        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 1        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 2        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 1                        |
| 3        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 4        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 1                        |
| 5        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 6        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 7        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |
| 8        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 9        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 10       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |
| 11       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 12       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 13       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 8                        |
| 14       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 15       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 16       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 17       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 18       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 19       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 20       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 21       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 22       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 23       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |
| 24       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 25       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 26       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 27       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 28       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 3                        |
| 29       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |

**802.11ac (40 MHz), 5310 MHz**

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 1     | 1                | 658      | 81               | 53298                |
| 1        | Type 1     | 1                | 798      | 67               | 53466                |
| 2        | Type 1     | 1                | 738      | 72               | 53136                |
| 3        | Type 1     | 1                | 938      | 57               | 53466                |
| 4        | Type 1     | 1                | 558      | 95               | 53010                |
| 5        | Type 1     | 1                | 518      | 102              | 52836                |
| 6        | Type 1     | 1                | 3066     | 18               | 55188                |
| 7        | Type 1     | 1                | 878      | 61               | 53558                |
| 8        | Type 1     | 1                | 718      | 74               | 53132                |
| 9        | Type 1     | 1                | 678      | 78               | 52884                |
| 10       | Type 1     | 1                | 918      | 58               | 53244                |
| 11       | Type 1     | 1                | 898      | 59               | 52982                |
| 12       | Type 1     | 1                | 638      | 83               | 52954                |
| 13       | Type 1     | 1                | 618      | 86               | 53148                |
| 14       | Type 1     | 1                | 598      | 89               | 53222                |
| 15       | Type 1     | 1                | 1182     | 45               | 53190                |
| 16       | Type 1     | 1                | 909      | 59               | 53631                |
| 17       | Type 1     | 1                | 530      | 100              | 53000                |
| 18       | Type 1     | 1                | 1946     | 28               | 54488                |
| 19       | Type 1     | 1                | 2259     | 24               | 54216                |
| 20       | Type 1     | 1                | 2009     | 27               | 54243                |
| 21       | Type 1     | 1                | 865      | 62               | 53630                |
| 22       | Type 1     | 1                | 2218     | 24               | 53232                |
| 23       | Type 1     | 1                | 1480     | 36               | 53280                |
| 24       | Type 1     | 1                | 2523     | 21               | 52983                |
| 25       | Type 1     | 1                | 2876     | 19               | 54644                |
| 26       | Type 1     | 1                | 2496     | 22               | 54912                |
| 27       | Type 1     | 1                | 3046     | 18               | 54828                |
| 28       | Type 1     | 1                | 2057     | 26               | 53482                |
| 29       | Type 1     | 1                | 2719     | 20               | 54380                |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 2     | 4.8              | 218      | 29               | 6322                 |
| 1        | Type 2     | 2.1              | 206      | 24               | 4944                 |
| 2        | Type 2     | 1.9              | 201      | 24               | 4824                 |
| 3        | Type 2     | 3.4              | 226      | 27               | 6102                 |
| 4        | Type 2     | 4.1              | 192      | 28               | 5376                 |
| 5        | Type 2     | 4.4              | 221      | 28               | 6188                 |
| 6        | Type 2     | 4.1              | 172      | 28               | 4816                 |
| 7        | Type 2     | 3.5              | 150      | 27               | 4050                 |
| 8        | Type 2     | 3.6              | 186      | 27               | 5022                 |
| 9        | Type 2     | 4.7              | 154      | 29               | 4466                 |
| 10       | Type 2     | 1.3              | 194      | 23               | 4462                 |
| 11       | Type 2     | 1                | 166      | 23               | 3818                 |
| 12       | Type 2     | 3.6              | 212      | 27               | 5724                 |
| 13       | Type 2     | 3                | 228      | 26               | 5928                 |
| 14       | Type 2     | 4                | 211      | 28               | 5908                 |
| 15       | Type 2     | 4.7              | 151      | 29               | 4379                 |
| 16       | Type 2     | 1.1              | 179      | 23               | 4117                 |
| 17       | Type 2     | 2.7              | 175      | 25               | 4375                 |
| 18       | Type 2     | 1.5              | 165      | 24               | 3960                 |
| 19       | Type 2     | 1.6              | 167      | 24               | 4008                 |
| 20       | Type 2     | 4.8              | 173      | 29               | 5017                 |
| 21       | Type 2     | 3.7              | 189      | 27               | 5103                 |
| 22       | Type 2     | 5                | 185      | 29               | 5365                 |
| 23       | Type 2     | 4.7              | 215      | 29               | 6235                 |
| 24       | Type 2     | 3.8              | 159      | 27               | 4293                 |
| 25       | Type 2     | 2.3              | 170      | 25               | 4250                 |
| 26       | Type 2     | 4.8              | 168      | 29               | 4872                 |
| 27       | Type 2     | 1.9              | 213      | 24               | 5112                 |
| 28       | Type 2     | 1.3              | 190      | 23               | 4370                 |
| 29       | Type 2     | 1.5              | 205      | 23               | 4715                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 3     | 9.8              | 265      | 18               | 4770                 |
| 1        | Type 3     | 7.1              | 240      | 16               | 3840                 |
| 2        | Type 3     | 6.9              | 299      | 16               | 4784                 |
| 3        | Type 3     | 8.4              | 262      | 17               | 4454                 |
| 4        | Type 3     | 9.1              | 446      | 18               | 8028                 |
| 5        | Type 3     | 9.4              | 223      | 18               | 4014                 |
| 6        | Type 3     | 9.1              | 224      | 18               | 4032                 |
| 7        | Type 3     | 8.5              | 493      | 17               | 8381                 |
| 8        | Type 3     | 8.6              | 443      | 17               | 7531                 |
| 9        | Type 3     | 9.7              | 403      | 18               | 7254                 |
| 10       | Type 3     | 6.3              | 471      | 16               | 7536                 |
| 11       | Type 3     | 6                | 248      | 16               | 3968                 |
| 12       | Type 3     | 8.6              | 454      | 17               | 7718                 |
| 13       | Type 3     | 8                | 227      | 17               | 3859                 |
| 14       | Type 3     | 9                | 448      | 18               | 8064                 |
| 15       | Type 3     | 9.7              | 300      | 18               | 5400                 |
| 16       | Type 3     | 6.1              | 400      | 16               | 6400                 |
| 17       | Type 3     | 7.7              | 467      | 17               | 7939                 |
| 18       | Type 3     | 6.5              | 222      | 16               | 3552                 |
| 19       | Type 3     | 6.6              | 252      | 16               | 4032                 |
| 20       | Type 3     | 9.8              | 412      | 18               | 7416                 |
| 21       | Type 3     | 8.7              | 294      | 18               | 5292                 |
| 22       | Type 3     | 10               | 413      | 18               | 7434                 |
| 23       | Type 3     | 9.7              | 386      | 18               | 6948                 |
| 24       | Type 3     | 8.8              | 317      | 18               | 5706                 |
| 25       | Type 3     | 7.3              | 472      | 17               | 8024                 |
| 26       | Type 3     | 9.8              | 258      | 18               | 4644                 |
| 27       | Type 3     | 6.9              | 250      | 16               | 4000                 |
| 28       | Type 3     | 6.3              | 447      | 16               | 7152                 |
| 29       | Type 3     | 6.5              | 314      | 16               | 5024                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 4     | 19.4             | 265      | 16               | 4240                 |
| 1        | Type 4     | 13.4             | 240      | 13               | 3120                 |
| 2        | Type 4     | 13.1             | 299      | 13               | 3887                 |
| 3        | Type 4     | 16.4             | 262      | 15               | 3930                 |
| 4        | Type 4     | 18               | 446      | 15               | 6690                 |
| 5        | Type 4     | 18.5             | 223      | 16               | 3568                 |
| 6        | Type 4     | 17.9             | 224      | 15               | 3360                 |
| 7        | Type 4     | 16.5             | 493      | 15               | 7395                 |
| 8        | Type 4     | 16.8             | 443      | 15               | 6645                 |
| 9        | Type 4     | 19.2             | 403      | 16               | 6448                 |
| 10       | Type 4     | 11.7             | 471      | 12               | 5652                 |
| 11       | Type 4     | 11.1             | 248      | 12               | 2976                 |
| 12       | Type 4     | 16.9             | 454      | 15               | 6810                 |
| 13       | Type 4     | 15.4             | 227      | 14               | 3178                 |
| 14       | Type 4     | 17.7             | 448      | 15               | 6720                 |
| 15       | Type 4     | 19.3             | 300      | 16               | 4800                 |
| 16       | Type 4     | 11.3             | 400      | 12               | 4800                 |
| 17       | Type 4     | 14.8             | 467      | 14               | 6538                 |
| 18       | Type 4     | 12.3             | 222      | 12               | 2664                 |
| 19       | Type 4     | 12.3             | 252      | 12               | 3024                 |
| 20       | Type 4     | 19.4             | 412      | 16               | 6592                 |
| 21       | Type 4     | 17               | 294      | 15               | 4410                 |
| 22       | Type 4     | 19.9             | 413      | 16               | 6608                 |
| 23       | Type 4     | 19.2             | 386      | 16               | 6176                 |
| 24       | Type 4     | 17.4             | 317      | 15               | 4755                 |
| 25       | Type 4     | 14               | 472      | 13               | 6136                 |
| 26       | Type 4     | 19.4             | 258      | 16               | 4128                 |
| 27       | Type 4     | 13.2             | 250      | 13               | 3250                 |
| 28       | Type 4     | 11.7             | 447      | 12               | 5364                 |
| 29       | Type 4     | 12.2             | 314      | 12               | 3768                 |

| Trial Id | Radar Type | Number of Bursts | Burst Period(s) | Waveform Length(s) | Center Frequency (GHz) |
|----------|------------|------------------|-----------------|--------------------|------------------------|
| 0        | Type 5     | 20               | 0.6             | 12                 | 5.31                   |
| 1        | Type 5     | 11               | 1.090909        | 12                 | 5.31                   |
| 2        | Type 5     | 11               | 1.090909        | 12                 | 5.31                   |
| 3        | Type 5     | 15               | 0.8             | 12                 | 5.31                   |
| 4        | Type 5     | 18               | 0.666667        | 12                 | 5.31                   |
| 5        | Type 5     | 18               | 0.666667        | 12                 | 5.31                   |
| 6        | Type 5     | 17               | 0.705882        | 12                 | 5.31                   |
| 7        | Type 5     | 15               | 0.8             | 12                 | 5.31                   |
| 8        | Type 5     | 16               | 0.75            | 12                 | 5.31                   |
| 9        | Type 5     | 19               | 0.631579        | 12                 | 5.31                   |
| 10       | Type 5     | 9                | 1.333333        | 12                 | 5.293                  |
| 11       | Type 5     | 8                | 1.5             | 12                 | 5.293                  |
| 12       | Type 5     | 16               | 0.75            | 12                 | 5.297                  |
| 13       | Type 5     | 14               | 0.857143        | 12                 | 5.296                  |
| 14       | Type 5     | 17               | 0.705882        | 12                 | 5.297                  |
| 15       | Type 5     | 19               | 0.631579        | 12                 | 5.299                  |
| 16       | Type 5     | 8                | 1.5             | 12                 | 5.293                  |
| 17       | Type 5     | 13               | 0.923077        | 12                 | 5.295                  |
| 18       | Type 5     | 9                | 1.333333        | 12                 | 5.294                  |
| 19       | Type 5     | 9                | 1.333333        | 12                 | 5.294                  |
| 20       | Type 5     | 20               | 0.6             | 12                 | 5.321                  |
| 21       | Type 5     | 16               | 0.75            | 12                 | 5.323                  |
| 22       | Type 5     | 20               | 0.6             | 12                 | 5.321                  |
| 23       | Type 5     | 19               | 0.631579        | 12                 | 5.321                  |
| 24       | Type 5     | 17               | 0.705882        | 12                 | 5.323                  |
| 25       | Type 5     | 12               | 1               | 12                 | 5.325                  |
| 26       | Type 5     | 20               | 0.6             | 12                 | 5.321                  |
| 27       | Type 5     | 11               | 1.090909        | 12                 | 5.326                  |
| 28       | Type 5     | 9                | 1.333333        | 12                 | 5.327                  |
| 29       | Type 5     | 9                | 1.333333        | 12                 | 5.326                  |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Pulses per Hop | Hopping Rate (KHz) | Hopping Sequence Length (ms) | Visible Frequency Number |
|----------|------------|------------------|----------|----------------|--------------------|------------------------------|--------------------------|
| 0        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 1        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |
| 2        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 12                       |
| 3        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 8                        |
| 4        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 5        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 6        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 7        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 8        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |
| 9        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 10       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 11                       |
| 11       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 12       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 13       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 14       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 15       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 16       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 17       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |
| 18       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 19       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 20       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 21       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 8                        |
| 22       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 23       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 24       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 25       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 4                        |
| 26       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 27       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 28       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 29       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |

**802.11ac (40 MHz), 5510 MHz**

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 1     | 1                | 658      | 81               | 53298                |
| 1        | Type 1     | 1                | 798      | 67               | 53466                |
| 2        | Type 1     | 1                | 738      | 72               | 53136                |
| 3        | Type 1     | 1                | 938      | 57               | 53466                |
| 4        | Type 1     | 1                | 558      | 95               | 53010                |
| 5        | Type 1     | 1                | 518      | 102              | 52836                |
| 6        | Type 1     | 1                | 3066     | 18               | 55188                |
| 7        | Type 1     | 1                | 878      | 61               | 53558                |
| 8        | Type 1     | 1                | 718      | 74               | 53132                |
| 9        | Type 1     | 1                | 678      | 78               | 52884                |
| 10       | Type 1     | 1                | 918      | 58               | 53244                |
| 11       | Type 1     | 1                | 898      | 59               | 52982                |
| 12       | Type 1     | 1                | 638      | 83               | 52954                |
| 13       | Type 1     | 1                | 618      | 86               | 53148                |
| 14       | Type 1     | 1                | 598      | 89               | 53222                |
| 15       | Type 1     | 1                | 1182     | 45               | 53190                |
| 16       | Type 1     | 1                | 909      | 59               | 53631                |
| 17       | Type 1     | 1                | 530      | 100              | 53000                |
| 18       | Type 1     | 1                | 1946     | 28               | 54488                |
| 19       | Type 1     | 1                | 2259     | 24               | 54216                |
| 20       | Type 1     | 1                | 2009     | 27               | 54243                |
| 21       | Type 1     | 1                | 865      | 62               | 53630                |
| 22       | Type 1     | 1                | 2218     | 24               | 53232                |
| 23       | Type 1     | 1                | 1480     | 36               | 53280                |
| 24       | Type 1     | 1                | 2523     | 21               | 52983                |
| 25       | Type 1     | 1                | 2876     | 19               | 54644                |
| 26       | Type 1     | 1                | 2496     | 22               | 54912                |
| 27       | Type 1     | 1                | 3046     | 18               | 54828                |
| 28       | Type 1     | 1                | 2057     | 26               | 53482                |
| 29       | Type 1     | 1                | 2719     | 20               | 54380                |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 2     | 4.8              | 218      | 29               | 6322                 |
| 1        | Type 2     | 2.1              | 206      | 24               | 4944                 |
| 2        | Type 2     | 1.9              | 201      | 24               | 4824                 |
| 3        | Type 2     | 3.4              | 226      | 27               | 6102                 |
| 4        | Type 2     | 4.1              | 192      | 28               | 5376                 |
| 5        | Type 2     | 4.4              | 221      | 28               | 6188                 |
| 6        | Type 2     | 4.1              | 172      | 28               | 4816                 |
| 7        | Type 2     | 3.5              | 150      | 27               | 4050                 |
| 8        | Type 2     | 3.6              | 186      | 27               | 5022                 |
| 9        | Type 2     | 4.7              | 154      | 29               | 4466                 |
| 10       | Type 2     | 1.3              | 194      | 23               | 4462                 |
| 11       | Type 2     | 1                | 166      | 23               | 3818                 |
| 12       | Type 2     | 3.6              | 212      | 27               | 5724                 |
| 13       | Type 2     | 3                | 228      | 26               | 5928                 |
| 14       | Type 2     | 4                | 211      | 28               | 5908                 |
| 15       | Type 2     | 4.7              | 151      | 29               | 4379                 |
| 16       | Type 2     | 1.1              | 179      | 23               | 4117                 |
| 17       | Type 2     | 2.7              | 175      | 25               | 4375                 |
| 18       | Type 2     | 1.5              | 165      | 24               | 3960                 |
| 19       | Type 2     | 1.6              | 167      | 24               | 4008                 |
| 20       | Type 2     | 4.8              | 173      | 29               | 5017                 |
| 21       | Type 2     | 3.7              | 189      | 27               | 5103                 |
| 22       | Type 2     | 5                | 185      | 29               | 5365                 |
| 23       | Type 2     | 4.7              | 215      | 29               | 6235                 |
| 24       | Type 2     | 3.8              | 159      | 27               | 4293                 |
| 25       | Type 2     | 2.3              | 170      | 25               | 4250                 |
| 26       | Type 2     | 4.8              | 168      | 29               | 4872                 |
| 27       | Type 2     | 1.9              | 213      | 24               | 5112                 |
| 28       | Type 2     | 1.3              | 190      | 23               | 4370                 |
| 29       | Type 2     | 1.5              | 205      | 23               | 4715                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 3     | 9.8              | 265      | 18               | 4770                 |
| 1        | Type 3     | 7.1              | 240      | 16               | 3840                 |
| 2        | Type 3     | 6.9              | 299      | 16               | 4784                 |
| 3        | Type 3     | 8.4              | 262      | 17               | 4454                 |
| 4        | Type 3     | 9.1              | 446      | 18               | 8028                 |
| 5        | Type 3     | 9.4              | 223      | 18               | 4014                 |
| 6        | Type 3     | 9.1              | 224      | 18               | 4032                 |
| 7        | Type 3     | 8.5              | 493      | 17               | 8381                 |
| 8        | Type 3     | 8.6              | 443      | 17               | 7531                 |
| 9        | Type 3     | 9.7              | 403      | 18               | 7254                 |
| 10       | Type 3     | 6.3              | 471      | 16               | 7536                 |
| 11       | Type 3     | 6                | 248      | 16               | 3968                 |
| 12       | Type 3     | 8.6              | 454      | 17               | 7718                 |
| 13       | Type 3     | 8                | 227      | 17               | 3859                 |
| 14       | Type 3     | 9                | 448      | 18               | 8064                 |
| 15       | Type 3     | 9.7              | 300      | 18               | 5400                 |
| 16       | Type 3     | 6.1              | 400      | 16               | 6400                 |
| 17       | Type 3     | 7.7              | 467      | 17               | 7939                 |
| 18       | Type 3     | 6.5              | 222      | 16               | 3552                 |
| 19       | Type 3     | 6.6              | 252      | 16               | 4032                 |
| 20       | Type 3     | 9.8              | 412      | 18               | 7416                 |
| 21       | Type 3     | 8.7              | 294      | 18               | 5292                 |
| 22       | Type 3     | 10               | 413      | 18               | 7434                 |
| 23       | Type 3     | 9.7              | 386      | 18               | 6948                 |
| 24       | Type 3     | 8.8              | 317      | 18               | 5706                 |
| 25       | Type 3     | 7.3              | 472      | 17               | 8024                 |
| 26       | Type 3     | 9.8              | 258      | 18               | 4644                 |
| 27       | Type 3     | 6.9              | 250      | 16               | 4000                 |
| 28       | Type 3     | 6.3              | 447      | 16               | 7152                 |
| 29       | Type 3     | 6.5              | 314      | 16               | 5024                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 4     | 19.4             | 265      | 16               | 4240                 |
| 1        | Type 4     | 13.4             | 240      | 13               | 3120                 |
| 2        | Type 4     | 13.1             | 299      | 13               | 3887                 |
| 3        | Type 4     | 16.4             | 262      | 15               | 3930                 |
| 4        | Type 4     | 18               | 446      | 15               | 6690                 |
| 5        | Type 4     | 18.5             | 223      | 16               | 3568                 |
| 6        | Type 4     | 17.9             | 224      | 15               | 3360                 |
| 7        | Type 4     | 16.5             | 493      | 15               | 7395                 |
| 8        | Type 4     | 16.8             | 443      | 15               | 6645                 |
| 9        | Type 4     | 19.2             | 403      | 16               | 6448                 |
| 10       | Type 4     | 11.7             | 471      | 12               | 5652                 |
| 11       | Type 4     | 11.1             | 248      | 12               | 2976                 |
| 12       | Type 4     | 16.9             | 454      | 15               | 6810                 |
| 13       | Type 4     | 15.4             | 227      | 14               | 3178                 |
| 14       | Type 4     | 17.7             | 448      | 15               | 6720                 |
| 15       | Type 4     | 19.3             | 300      | 16               | 4800                 |
| 16       | Type 4     | 11.3             | 400      | 12               | 4800                 |
| 17       | Type 4     | 14.8             | 467      | 14               | 6538                 |
| 18       | Type 4     | 12.3             | 222      | 12               | 2664                 |
| 19       | Type 4     | 12.3             | 252      | 12               | 3024                 |
| 20       | Type 4     | 19.4             | 412      | 16               | 6592                 |
| 21       | Type 4     | 17               | 294      | 15               | 4410                 |
| 22       | Type 4     | 19.9             | 413      | 16               | 6608                 |
| 23       | Type 4     | 19.2             | 386      | 16               | 6176                 |
| 24       | Type 4     | 17.4             | 317      | 15               | 4755                 |
| 25       | Type 4     | 14               | 472      | 13               | 6136                 |
| 26       | Type 4     | 19.4             | 258      | 16               | 4128                 |
| 27       | Type 4     | 13.2             | 250      | 13               | 3250                 |
| 28       | Type 4     | 11.7             | 447      | 12               | 5364                 |
| 29       | Type 4     | 12.2             | 314      | 12               | 3768                 |

| Trial Id | Radar Type | Number of Bursts | Burst Period(s) | Waveform Length(s) | Center Frequency (GHz) |
|----------|------------|------------------|-----------------|--------------------|------------------------|
| 0        | Type 5     | 20               | 0.6             | 12                 | 5.51                   |
| 1        | Type 5     | 11               | 1.090909        | 12                 | 5.51                   |
| 2        | Type 5     | 11               | 1.090909        | 12                 | 5.51                   |
| 3        | Type 5     | 15               | 0.8             | 12                 | 5.51                   |
| 4        | Type 5     | 18               | 0.666667        | 12                 | 5.51                   |
| 5        | Type 5     | 18               | 0.666667        | 12                 | 5.51                   |
| 6        | Type 5     | 17               | 0.705882        | 12                 | 5.51                   |
| 7        | Type 5     | 15               | 0.8             | 12                 | 5.51                   |
| 8        | Type 5     | 16               | 0.75            | 12                 | 5.51                   |
| 9        | Type 5     | 19               | 0.631579        | 12                 | 5.51                   |
| 10       | Type 5     | 9                | 1.333333        | 12                 | 5.493                  |
| 11       | Type 5     | 8                | 1.5             | 12                 | 5.493                  |
| 12       | Type 5     | 16               | 0.75            | 12                 | 5.497                  |
| 13       | Type 5     | 14               | 0.857143        | 12                 | 5.496                  |
| 14       | Type 5     | 17               | 0.705882        | 12                 | 5.497                  |
| 15       | Type 5     | 19               | 0.631579        | 12                 | 5.499                  |
| 16       | Type 5     | 8                | 1.5             | 12                 | 5.493                  |
| 17       | Type 5     | 13               | 0.923077        | 12                 | 5.495                  |
| 18       | Type 5     | 9                | 1.333333        | 12                 | 5.494                  |
| 19       | Type 5     | 9                | 1.333333        | 12                 | 5.494                  |
| 20       | Type 5     | 20               | 0.6             | 12                 | 5.521                  |
| 21       | Type 5     | 16               | 0.75            | 12                 | 5.523                  |
| 22       | Type 5     | 20               | 0.6             | 12                 | 5.521                  |
| 23       | Type 5     | 19               | 0.631579        | 12                 | 5.521                  |
| 24       | Type 5     | 17               | 0.705882        | 12                 | 5.523                  |
| 25       | Type 5     | 12               | 1               | 12                 | 5.525                  |
| 26       | Type 5     | 20               | 0.6             | 12                 | 5.521                  |
| 27       | Type 5     | 11               | 1.090909        | 12                 | 5.526                  |
| 28       | Type 5     | 9                | 1.333333        | 12                 | 5.527                  |
| 29       | Type 5     | 9                | 1.333333        | 12                 | 5.526                  |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Pulses per Hop | Hopping Rate (KHz) | Hopping Sequence Length (ms) | Visible Frequency Number |
|----------|------------|------------------|----------|----------------|--------------------|------------------------------|--------------------------|
| 0        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 1        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |
| 2        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 1                        |
| 3        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 12                       |
| 4        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 5        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 11                       |
| 6        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 8                        |
| 7        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |
| 8        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 6                        |
| 9        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 10       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 11       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 11                       |
| 12       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 14                       |
| 13       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 11                       |
| 14       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |
| 15       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 8                        |
| 16       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 17       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 12                       |
| 18       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 19       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |
| 20       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 21       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 7                        |
| 22       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 23       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |
| 24       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 8                        |
| 25       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 26       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 27       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 28       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 5                        |
| 29       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 2                        |

**802.11ac (80 MHz), 5290 MHz**

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 1     | 1                | 658      | 81               | 53298                |
| 1        | Type 1     | 1                | 798      | 67               | 53466                |
| 2        | Type 1     | 1                | 738      | 72               | 53136                |
| 3        | Type 1     | 1                | 938      | 57               | 53466                |
| 4        | Type 1     | 1                | 558      | 95               | 53010                |
| 5        | Type 1     | 1                | 518      | 102              | 52836                |
| 6        | Type 1     | 1                | 3066     | 18               | 55188                |
| 7        | Type 1     | 1                | 878      | 61               | 53558                |
| 8        | Type 1     | 1                | 718      | 74               | 53132                |
| 9        | Type 1     | 1                | 678      | 78               | 52884                |
| 10       | Type 1     | 1                | 918      | 58               | 53244                |
| 11       | Type 1     | 1                | 898      | 59               | 52982                |
| 12       | Type 1     | 1                | 638      | 83               | 52954                |
| 13       | Type 1     | 1                | 618      | 86               | 53148                |
| 14       | Type 1     | 1                | 598      | 89               | 53222                |
| 15       | Type 1     | 1                | 1182     | 45               | 53190                |
| 16       | Type 1     | 1                | 909      | 59               | 53631                |
| 17       | Type 1     | 1                | 530      | 100              | 53000                |
| 18       | Type 1     | 1                | 1946     | 28               | 54488                |
| 19       | Type 1     | 1                | 2259     | 24               | 54216                |
| 20       | Type 1     | 1                | 2009     | 27               | 54243                |
| 21       | Type 1     | 1                | 865      | 62               | 53630                |
| 22       | Type 1     | 1                | 2218     | 24               | 53232                |
| 23       | Type 1     | 1                | 1480     | 36               | 53280                |
| 24       | Type 1     | 1                | 2523     | 21               | 52983                |
| 25       | Type 1     | 1                | 2876     | 19               | 54644                |
| 26       | Type 1     | 1                | 2496     | 22               | 54912                |
| 27       | Type 1     | 1                | 3046     | 18               | 54828                |
| 28       | Type 1     | 1                | 2057     | 26               | 53482                |
| 29       | Type 1     | 1                | 2719     | 20               | 54380                |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 2     | 4.8              | 218      | 29               | 6322                 |
| 1        | Type 2     | 2.1              | 206      | 24               | 4944                 |
| 2        | Type 2     | 1.9              | 201      | 24               | 4824                 |
| 3        | Type 2     | 3.4              | 226      | 27               | 6102                 |
| 4        | Type 2     | 4.1              | 192      | 28               | 5376                 |
| 5        | Type 2     | 4.4              | 221      | 28               | 6188                 |
| 6        | Type 2     | 4.1              | 172      | 28               | 4816                 |
| 7        | Type 2     | 3.5              | 150      | 27               | 4050                 |
| 8        | Type 2     | 3.6              | 186      | 27               | 5022                 |
| 9        | Type 2     | 4.7              | 154      | 29               | 4466                 |
| 10       | Type 2     | 1.3              | 194      | 23               | 4462                 |
| 11       | Type 2     | 1                | 166      | 23               | 3818                 |
| 12       | Type 2     | 3.6              | 212      | 27               | 5724                 |
| 13       | Type 2     | 3                | 228      | 26               | 5928                 |
| 14       | Type 2     | 4                | 211      | 28               | 5908                 |
| 15       | Type 2     | 4.7              | 151      | 29               | 4379                 |
| 16       | Type 2     | 1.1              | 179      | 23               | 4117                 |
| 17       | Type 2     | 2.7              | 175      | 25               | 4375                 |
| 18       | Type 2     | 1.5              | 165      | 24               | 3960                 |
| 19       | Type 2     | 1.6              | 167      | 24               | 4008                 |
| 20       | Type 2     | 4.8              | 173      | 29               | 5017                 |
| 21       | Type 2     | 3.7              | 189      | 27               | 5103                 |
| 22       | Type 2     | 5                | 185      | 29               | 5365                 |
| 23       | Type 2     | 4.7              | 215      | 29               | 6235                 |
| 24       | Type 2     | 3.8              | 159      | 27               | 4293                 |
| 25       | Type 2     | 2.3              | 170      | 25               | 4250                 |
| 26       | Type 2     | 4.8              | 168      | 29               | 4872                 |
| 27       | Type 2     | 1.9              | 213      | 24               | 5112                 |
| 28       | Type 2     | 1.3              | 190      | 23               | 4370                 |
| 29       | Type 2     | 1.5              | 205      | 23               | 4715                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 3     | 9.8              | 265      | 18               | 4770                 |
| 1        | Type 3     | 7.1              | 240      | 16               | 3840                 |
| 2        | Type 3     | 6.9              | 299      | 16               | 4784                 |
| 3        | Type 3     | 8.4              | 262      | 17               | 4454                 |
| 4        | Type 3     | 9.1              | 446      | 18               | 8028                 |
| 5        | Type 3     | 9.4              | 223      | 18               | 4014                 |
| 6        | Type 3     | 9.1              | 224      | 18               | 4032                 |
| 7        | Type 3     | 8.5              | 493      | 17               | 8381                 |
| 8        | Type 3     | 8.6              | 443      | 17               | 7531                 |
| 9        | Type 3     | 9.7              | 403      | 18               | 7254                 |
| 10       | Type 3     | 6.3              | 471      | 16               | 7536                 |
| 11       | Type 3     | 6                | 248      | 16               | 3968                 |
| 12       | Type 3     | 8.6              | 454      | 17               | 7718                 |
| 13       | Type 3     | 8                | 227      | 17               | 3859                 |
| 14       | Type 3     | 9                | 448      | 18               | 8064                 |
| 15       | Type 3     | 9.7              | 300      | 18               | 5400                 |
| 16       | Type 3     | 6.1              | 400      | 16               | 6400                 |
| 17       | Type 3     | 7.7              | 467      | 17               | 7939                 |
| 18       | Type 3     | 6.5              | 222      | 16               | 3552                 |
| 19       | Type 3     | 6.6              | 252      | 16               | 4032                 |
| 20       | Type 3     | 9.8              | 412      | 18               | 7416                 |
| 21       | Type 3     | 8.7              | 294      | 18               | 5292                 |
| 22       | Type 3     | 10               | 413      | 18               | 7434                 |
| 23       | Type 3     | 9.7              | 386      | 18               | 6948                 |
| 24       | Type 3     | 8.8              | 317      | 18               | 5706                 |
| 25       | Type 3     | 7.3              | 472      | 17               | 8024                 |
| 26       | Type 3     | 9.8              | 258      | 18               | 4644                 |
| 27       | Type 3     | 6.9              | 250      | 16               | 4000                 |
| 28       | Type 3     | 6.3              | 447      | 16               | 7152                 |
| 29       | Type 3     | 6.5              | 314      | 16               | 5024                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 4     | 19.4             | 265      | 16               | 4240                 |
| 1        | Type 4     | 13.4             | 240      | 13               | 3120                 |
| 2        | Type 4     | 13.1             | 299      | 13               | 3887                 |
| 3        | Type 4     | 16.4             | 262      | 15               | 3930                 |
| 4        | Type 4     | 18               | 446      | 15               | 6690                 |
| 5        | Type 4     | 18.5             | 223      | 16               | 3568                 |
| 6        | Type 4     | 17.9             | 224      | 15               | 3360                 |
| 7        | Type 4     | 16.5             | 493      | 15               | 7395                 |
| 8        | Type 4     | 16.8             | 443      | 15               | 6645                 |
| 9        | Type 4     | 19.2             | 403      | 16               | 6448                 |
| 10       | Type 4     | 11.7             | 471      | 12               | 5652                 |
| 11       | Type 4     | 11.1             | 248      | 12               | 2976                 |
| 12       | Type 4     | 16.9             | 454      | 15               | 6810                 |
| 13       | Type 4     | 15.4             | 227      | 14               | 3178                 |
| 14       | Type 4     | 17.7             | 448      | 15               | 6720                 |
| 15       | Type 4     | 19.3             | 300      | 16               | 4800                 |
| 16       | Type 4     | 11.3             | 400      | 12               | 4800                 |
| 17       | Type 4     | 14.8             | 467      | 14               | 6538                 |
| 18       | Type 4     | 12.3             | 222      | 12               | 2664                 |
| 19       | Type 4     | 12.3             | 252      | 12               | 3024                 |
| 20       | Type 4     | 19.4             | 412      | 16               | 6592                 |
| 21       | Type 4     | 17               | 294      | 15               | 4410                 |
| 22       | Type 4     | 19.9             | 413      | 16               | 6608                 |
| 23       | Type 4     | 19.2             | 386      | 16               | 6176                 |
| 24       | Type 4     | 17.4             | 317      | 15               | 4755                 |
| 25       | Type 4     | 14               | 472      | 13               | 6136                 |
| 26       | Type 4     | 19.4             | 258      | 16               | 4128                 |
| 27       | Type 4     | 13.2             | 250      | 13               | 3250                 |
| 28       | Type 4     | 11.7             | 447      | 12               | 5364                 |
| 29       | Type 4     | 12.2             | 314      | 12               | 3768                 |

| Trial Id | Radar Type | Number of Bursts | Burst Period(s) | Waveform Length(s) | Center Frequency (GHz) |
|----------|------------|------------------|-----------------|--------------------|------------------------|
| 0        | Type 5     | 20               | 0.6             | 12                 | 5.29                   |
| 1        | Type 5     | 11               | 1.090909        | 12                 | 5.29                   |
| 2        | Type 5     | 11               | 1.090909        | 12                 | 5.29                   |
| 3        | Type 5     | 15               | 0.8             | 12                 | 5.29                   |
| 4        | Type 5     | 18               | 0.666667        | 12                 | 5.29                   |
| 5        | Type 5     | 18               | 0.666667        | 12                 | 5.29                   |
| 6        | Type 5     | 17               | 0.705882        | 12                 | 5.29                   |
| 7        | Type 5     | 15               | 0.8             | 12                 | 5.29                   |
| 8        | Type 5     | 16               | 0.75            | 12                 | 5.29                   |
| 9        | Type 5     | 19               | 0.631579        | 12                 | 5.29                   |
| 10       | Type 5     | 9                | 1.333333        | 12                 | 5.254                  |
| 11       | Type 5     | 8                | 1.5             | 12                 | 5.254                  |
| 12       | Type 5     | 16               | 0.75            | 12                 | 5.258                  |
| 13       | Type 5     | 14               | 0.857143        | 12                 | 5.256                  |
| 14       | Type 5     | 17               | 0.705882        | 12                 | 5.258                  |
| 15       | Type 5     | 19               | 0.631579        | 12                 | 5.259                  |
| 16       | Type 5     | 8                | 1.5             | 12                 | 5.254                  |
| 17       | Type 5     | 13               | 0.923077        | 12                 | 5.256                  |
| 18       | Type 5     | 9                | 1.333333        | 12                 | 5.254                  |
| 19       | Type 5     | 9                | 1.333333        | 12                 | 5.254                  |
| 20       | Type 5     | 20               | 0.6             | 12                 | 5.321                  |
| 21       | Type 5     | 16               | 0.75            | 12                 | 5.322                  |
| 22       | Type 5     | 20               | 0.6             | 12                 | 5.32                   |
| 23       | Type 5     | 19               | 0.631579        | 12                 | 5.321                  |
| 24       | Type 5     | 17               | 0.705882        | 12                 | 5.322                  |
| 25       | Type 5     | 12               | 1               | 12                 | 5.324                  |
| 26       | Type 5     | 20               | 0.6             | 12                 | 5.321                  |
| 27       | Type 5     | 11               | 1.090909        | 12                 | 5.325                  |
| 28       | Type 5     | 9                | 1.333333        | 12                 | 5.326                  |
| 29       | Type 5     | 9                | 1.333333        | 12                 | 5.326                  |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Pulses per Hop | Hopping Rate (KHz) | Hopping Sequence Length (ms) | Visible Frequency Number |
|----------|------------|------------------|----------|----------------|--------------------|------------------------------|--------------------------|
| 0        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 15                       |
| 1        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 20                       |
| 2        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 23                       |
| 3        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 15                       |
| 4        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 14                       |
| 5        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 14                       |
| 6        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 16                       |
| 7        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 16                       |
| 8        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 14                       |
| 9        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 20                       |
| 10       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 11       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 12       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 13       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 14       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 14                       |
| 15       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 15                       |
| 16       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 22                       |
| 17       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 15                       |
| 18       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 15                       |
| 19       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 15                       |
| 20       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 18                       |
| 21       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 16                       |
| 22       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 23       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 10                       |
| 24       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 19                       |
| 25       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 13                       |
| 26       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 24                       |
| 27       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 17                       |
| 28       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 18                       |
| 29       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 12                       |

**802.11ac (80 MHz), 5530 MHz**

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 1     | 1                | 658      | 81               | 53298                |
| 1        | Type 1     | 1                | 798      | 67               | 53466                |
| 2        | Type 1     | 1                | 738      | 72               | 53136                |
| 3        | Type 1     | 1                | 938      | 57               | 53466                |
| 4        | Type 1     | 1                | 558      | 95               | 53010                |
| 5        | Type 1     | 1                | 518      | 102              | 52836                |
| 6        | Type 1     | 1                | 3066     | 18               | 55188                |
| 7        | Type 1     | 1                | 878      | 61               | 53558                |
| 8        | Type 1     | 1                | 718      | 74               | 53132                |
| 9        | Type 1     | 1                | 678      | 78               | 52884                |
| 10       | Type 1     | 1                | 918      | 58               | 53244                |
| 11       | Type 1     | 1                | 898      | 59               | 52982                |
| 12       | Type 1     | 1                | 638      | 83               | 52954                |
| 13       | Type 1     | 1                | 618      | 86               | 53148                |
| 14       | Type 1     | 1                | 598      | 89               | 53222                |
| 15       | Type 1     | 1                | 1182     | 45               | 53190                |
| 16       | Type 1     | 1                | 909      | 59               | 53631                |
| 17       | Type 1     | 1                | 530      | 100              | 53000                |
| 18       | Type 1     | 1                | 1946     | 28               | 54488                |
| 19       | Type 1     | 1                | 2259     | 24               | 54216                |
| 20       | Type 1     | 1                | 2009     | 27               | 54243                |
| 21       | Type 1     | 1                | 865      | 62               | 53630                |
| 22       | Type 1     | 1                | 2218     | 24               | 53232                |
| 23       | Type 1     | 1                | 1480     | 36               | 53280                |
| 24       | Type 1     | 1                | 2523     | 21               | 52983                |
| 25       | Type 1     | 1                | 2876     | 19               | 54644                |
| 26       | Type 1     | 1                | 2496     | 22               | 54912                |
| 27       | Type 1     | 1                | 3046     | 18               | 54828                |
| 28       | Type 1     | 1                | 2057     | 26               | 53482                |
| 29       | Type 1     | 1                | 2719     | 20               | 54380                |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 2     | 4.8              | 218      | 29               | 6322                 |
| 1        | Type 2     | 2.1              | 206      | 24               | 4944                 |
| 2        | Type 2     | 1.9              | 201      | 24               | 4824                 |
| 3        | Type 2     | 3.4              | 226      | 27               | 6102                 |
| 4        | Type 2     | 4.1              | 192      | 28               | 5376                 |
| 5        | Type 2     | 4.4              | 221      | 28               | 6188                 |
| 6        | Type 2     | 4.1              | 172      | 28               | 4816                 |
| 7        | Type 2     | 3.5              | 150      | 27               | 4050                 |
| 8        | Type 2     | 3.6              | 186      | 27               | 5022                 |
| 9        | Type 2     | 4.7              | 154      | 29               | 4466                 |
| 10       | Type 2     | 1.3              | 194      | 23               | 4462                 |
| 11       | Type 2     | 1                | 166      | 23               | 3818                 |
| 12       | Type 2     | 3.6              | 212      | 27               | 5724                 |
| 13       | Type 2     | 3                | 228      | 26               | 5928                 |
| 14       | Type 2     | 4                | 211      | 28               | 5908                 |
| 15       | Type 2     | 4.7              | 151      | 29               | 4379                 |
| 16       | Type 2     | 1.1              | 179      | 23               | 4117                 |
| 17       | Type 2     | 2.7              | 175      | 25               | 4375                 |
| 18       | Type 2     | 1.5              | 165      | 24               | 3960                 |
| 19       | Type 2     | 1.6              | 167      | 24               | 4008                 |
| 20       | Type 2     | 4.8              | 173      | 29               | 5017                 |
| 21       | Type 2     | 3.7              | 189      | 27               | 5103                 |
| 22       | Type 2     | 5                | 185      | 29               | 5365                 |
| 23       | Type 2     | 4.7              | 215      | 29               | 6235                 |
| 24       | Type 2     | 3.8              | 159      | 27               | 4293                 |
| 25       | Type 2     | 2.3              | 170      | 25               | 4250                 |
| 26       | Type 2     | 4.8              | 168      | 29               | 4872                 |
| 27       | Type 2     | 1.9              | 213      | 24               | 5112                 |
| 28       | Type 2     | 1.3              | 190      | 23               | 4370                 |
| 29       | Type 2     | 1.5              | 205      | 23               | 4715                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 3     | 9.8              | 265      | 18               | 4770                 |
| 1        | Type 3     | 7.1              | 240      | 16               | 3840                 |
| 2        | Type 3     | 6.9              | 299      | 16               | 4784                 |
| 3        | Type 3     | 8.4              | 262      | 17               | 4454                 |
| 4        | Type 3     | 9.1              | 446      | 18               | 8028                 |
| 5        | Type 3     | 9.4              | 223      | 18               | 4014                 |
| 6        | Type 3     | 9.1              | 224      | 18               | 4032                 |
| 7        | Type 3     | 8.5              | 493      | 17               | 8381                 |
| 8        | Type 3     | 8.6              | 443      | 17               | 7531                 |
| 9        | Type 3     | 9.7              | 403      | 18               | 7254                 |
| 10       | Type 3     | 6.3              | 471      | 16               | 7536                 |
| 11       | Type 3     | 6                | 248      | 16               | 3968                 |
| 12       | Type 3     | 8.6              | 454      | 17               | 7718                 |
| 13       | Type 3     | 8                | 227      | 17               | 3859                 |
| 14       | Type 3     | 9                | 448      | 18               | 8064                 |
| 15       | Type 3     | 9.7              | 300      | 18               | 5400                 |
| 16       | Type 3     | 6.1              | 400      | 16               | 6400                 |
| 17       | Type 3     | 7.7              | 467      | 17               | 7939                 |
| 18       | Type 3     | 6.5              | 222      | 16               | 3552                 |
| 19       | Type 3     | 6.6              | 252      | 16               | 4032                 |
| 20       | Type 3     | 9.8              | 412      | 18               | 7416                 |
| 21       | Type 3     | 8.7              | 294      | 18               | 5292                 |
| 22       | Type 3     | 10               | 413      | 18               | 7434                 |
| 23       | Type 3     | 9.7              | 386      | 18               | 6948                 |
| 24       | Type 3     | 8.8              | 317      | 18               | 5706                 |
| 25       | Type 3     | 7.3              | 472      | 17               | 8024                 |
| 26       | Type 3     | 9.8              | 258      | 18               | 4644                 |
| 27       | Type 3     | 6.9              | 250      | 16               | 4000                 |
| 28       | Type 3     | 6.3              | 447      | 16               | 7152                 |
| 29       | Type 3     | 6.5              | 314      | 16               | 5024                 |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Number of Pulses | Waveform Length (us) |
|----------|------------|------------------|----------|------------------|----------------------|
| 0        | Type 4     | 19.4             | 265      | 16               | 4240                 |
| 1        | Type 4     | 13.4             | 240      | 13               | 3120                 |
| 2        | Type 4     | 13.1             | 299      | 13               | 3887                 |
| 3        | Type 4     | 16.4             | 262      | 15               | 3930                 |
| 4        | Type 4     | 18               | 446      | 15               | 6690                 |
| 5        | Type 4     | 18.5             | 223      | 16               | 3568                 |
| 6        | Type 4     | 17.9             | 224      | 15               | 3360                 |
| 7        | Type 4     | 16.5             | 493      | 15               | 7395                 |
| 8        | Type 4     | 16.8             | 443      | 15               | 6645                 |
| 9        | Type 4     | 19.2             | 403      | 16               | 6448                 |
| 10       | Type 4     | 11.7             | 471      | 12               | 5652                 |
| 11       | Type 4     | 11.1             | 248      | 12               | 2976                 |
| 12       | Type 4     | 16.9             | 454      | 15               | 6810                 |
| 13       | Type 4     | 15.4             | 227      | 14               | 3178                 |
| 14       | Type 4     | 17.7             | 448      | 15               | 6720                 |
| 15       | Type 4     | 19.3             | 300      | 16               | 4800                 |
| 16       | Type 4     | 11.3             | 400      | 12               | 4800                 |
| 17       | Type 4     | 14.8             | 467      | 14               | 6538                 |
| 18       | Type 4     | 12.3             | 222      | 12               | 2664                 |
| 19       | Type 4     | 12.3             | 252      | 12               | 3024                 |
| 20       | Type 4     | 19.4             | 412      | 16               | 6592                 |
| 21       | Type 4     | 17               | 294      | 15               | 4410                 |
| 22       | Type 4     | 19.9             | 413      | 16               | 6608                 |
| 23       | Type 4     | 19.2             | 386      | 16               | 6176                 |
| 24       | Type 4     | 17.4             | 317      | 15               | 4755                 |
| 25       | Type 4     | 14               | 472      | 13               | 6136                 |
| 26       | Type 4     | 19.4             | 258      | 16               | 4128                 |
| 27       | Type 4     | 13.2             | 250      | 13               | 3250                 |
| 28       | Type 4     | 11.7             | 447      | 12               | 5364                 |
| 29       | Type 4     | 12.2             | 314      | 12               | 3768                 |

| Trial Id | Radar Type | Number of Bursts | Burst Period(s) | Waveform Length(s) | Center Frequency (GHz) |
|----------|------------|------------------|-----------------|--------------------|------------------------|
| 0        | Type 5     | 20               | 0.6             | 12                 | 5.53                   |
| 1        | Type 5     | 11               | 1.090909        | 12                 | 5.53                   |
| 2        | Type 5     | 11               | 1.090909        | 12                 | 5.53                   |
| 3        | Type 5     | 15               | 0.8             | 12                 | 5.53                   |
| 4        | Type 5     | 18               | 0.666667        | 12                 | 5.53                   |
| 5        | Type 5     | 18               | 0.666667        | 12                 | 5.53                   |
| 6        | Type 5     | 17               | 0.705882        | 12                 | 5.53                   |
| 7        | Type 5     | 15               | 0.8             | 12                 | 5.53                   |
| 8        | Type 5     | 16               | 0.75            | 12                 | 5.53                   |
| 9        | Type 5     | 19               | 0.631579        | 12                 | 5.53                   |
| 10       | Type 5     | 9                | 1.333333        | 12                 | 5.494                  |
| 11       | Type 5     | 8                | 1.5             | 12                 | 5.494                  |
| 12       | Type 5     | 16               | 0.75            | 12                 | 5.498                  |
| 13       | Type 5     | 14               | 0.857143        | 12                 | 5.496                  |
| 14       | Type 5     | 17               | 0.705882        | 12                 | 5.498                  |
| 15       | Type 5     | 19               | 0.631579        | 12                 | 5.499                  |
| 16       | Type 5     | 8                | 1.5             | 12                 | 5.494                  |
| 17       | Type 5     | 13               | 0.923077        | 12                 | 5.496                  |
| 18       | Type 5     | 9                | 1.333333        | 12                 | 5.494                  |
| 19       | Type 5     | 9                | 1.333333        | 12                 | 5.494                  |
| 20       | Type 5     | 20               | 0.6             | 12                 | 5.561                  |
| 21       | Type 5     | 16               | 0.75            | 12                 | 5.562                  |
| 22       | Type 5     | 20               | 0.6             | 12                 | 5.56                   |
| 23       | Type 5     | 19               | 0.631579        | 12                 | 5.561                  |
| 24       | Type 5     | 17               | 0.705882        | 12                 | 5.562                  |
| 25       | Type 5     | 12               | 1               | 12                 | 5.564                  |
| 26       | Type 5     | 20               | 0.6             | 12                 | 5.561                  |
| 27       | Type 5     | 11               | 1.090909        | 12                 | 5.565                  |
| 28       | Type 5     | 9                | 1.333333        | 12                 | 5.566                  |
| 29       | Type 5     | 9                | 1.333333        | 12                 | 5.566                  |

| Trial Id | Radar Type | Pulse Width (us) | PRI (us) | Pulses per Hop | Hopping Rate (KHz) | Hopping Sequence Length (ms) | Visible Frequency Number |
|----------|------------|------------------|----------|----------------|--------------------|------------------------------|--------------------------|
| 0        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 11                       |
| 1        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 16                       |
| 2        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 12                       |
| 3        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 18                       |
| 4        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 19                       |
| 5        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 21                       |
| 6        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 18                       |
| 7        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 19                       |
| 8        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 16                       |
| 9        | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 20                       |
| 10       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 15                       |
| 11       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 19                       |
| 12       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 27                       |
| 13       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 22                       |
| 14       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 14                       |
| 15       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 17                       |
| 16       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 14                       |
| 17       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 21                       |
| 18       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 22                       |
| 19       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 12                       |
| 20       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 18                       |
| 21       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 15                       |
| 22       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 21                       |
| 23       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 16                       |
| 24       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 19                       |
| 25       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 20                       |
| 26       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 16                       |
| 27       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 14                       |
| 28       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 17                       |
| 29       | Type 6     | 1                | 333.3    | 9              | 0.3333             | 300                          | 9                        |